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By Alameda County Environmental Health 3:31 pm, Mar 24, 2017

Project No. 2015-29
December 23, 2015

Mr. Tyler Wood
Lennar Multifamily Communities
492 9th Street Suite 300
Oakland, California 94607

Subject: **ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENT**
Parking Lot Parcels
1750 Webster Street
008-0625-017
Oakland, California

- References:
- 1) Well Installation and Quarterly Groundwater Monitoring Report at
1750 Webster Street, Oakland, California
By ATC Associates, Inc.
Dated September 25, 1998
 - 2) Quarterly Groundwater Monitoring Report – First Quarter 1999
1750 Webster Street, Oakland, California
By ATC Associates, Inc.
Dated April 1, 1999
 - 3) Phase I Environmental Site Assessment at 1711, 1801, 1805, 1811, 1817
through 1839 Harrison Street; 301 19th Street; 1732 through 1736,
1750, and 1801 Webster Street in Oakland, California
By *GeoSolve, Inc.*
Dated November 6, 2015
 - 4) Phase II Environmental Site Assessment at 1750 Webster Street and 301
19th Street in Oakland, California
By *GeoSolve, Inc.*
Dated November 7, 2015

Dear Mr. Wood:

At your request, *GeoSolve, Inc.* had conducted an Additional Phase II Environmental Site Assessment (ESA) for the above referenced property. The subject property for this Additional Phase II ESA is located at 1750 Webster Street in Oakland, California. The subject site consists of one parcel bounded by Webster Street to the north, Assessor Parcel Number (APN) 008-0625-



018 near 19th Street to the east, 301 19th Street to the south, and APN 008-0625-016 to the west. The subject site is vacant and used as parking lots. The site vicinity is shown on Figure 1, Site Vicinity Map.

Background

Based on review of References 1 and 2, elevated concentrations of total petroleum hydrocarbons reported as gasoline (TPHg) and benzene were detected in groundwater up to 200,000 micrograms per liter ($\mu\text{g/L}$) and 14,000 $\mu\text{g/L}$ on the southern portion of the property along Webster Street. Based on the findings of our Phase I ESA (Reference 3), the elevated concentrations of TPHg, benzene, toluene, ethyl benzene, and total xylenes (BTEX) appear to have originated from 1721 Webster Street, which is situated approximately 300 feet northwest of the subject property and immediately up-gradient.

In November 2015, *GeoSolve, Inc.* advanced one boring on the subject property and two borings on 301 19th Street to evaluate the concentrations of petroleum hydrocarbons in subsurface soil and groundwater in our Phase II ESA (Reference 4). Based on the laboratory analytical results of soil samples, concentrations of TPHg, BTEX, or MTBE were not detected in all soil samples analyzed from borings B-1 through B-3 as shown on Table 1, with the exception of total xylenes. Total xylenes was the only chemical constituent detected in soil sample B1-25 at 0.016 mg/Kg, which is significantly below the California Regional Water Quality Control Board – Region 2 (RWQCB) Environmental Screening Level (ESL) of 111 mg/Kg for residential development (Table B, December 2013).

Lead was detected at 170 mg/Kg in soil sample B1-5, which exceeded the residential ESL of 80 mg/Kg and lead was detected below the residential ESL in all other soil samples analyzed from borings B-1 through B-3.

TPHg, BTEX, MTBE and lead were not detected in groundwater samples collected from borings B-2 or B-3. MTBE was not detected in groundwater sample B-1. Lead was detected up to 0.54 micrograms per liter ($\mu\text{g/L}$) in groundwater sample B-1. An elevated concentration of TPHg was detected at 26,000 $\mu\text{g/L}$, which exceed the residential ESL of 500 $\mu\text{g/L}$ in groundwater sample B-1. Benzene, toluene, ethyl benzene and total xylenes exceeded residential ESLs of 27 $\mu\text{g/L}$, 130 $\mu\text{g/L}$ and 100 $\mu\text{g/L}$, respectively.

The purpose of conducting this Additional Phase II ESA is to evaluate the current concentrations of TPHg, BTEX, volatile organic compounds (VOCs) and lead within the subsurface soil and groundwater beneath the subject site prior to purchasing the land.



ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

Prior to commencement of fieldwork, *GeoSolve, Inc.* visited the subject property, marked three locations with white paint, and contacted underground service alert (USA) 48-hours before drilling activities. In addition, a Site-Specific Health and Safety Plan was prepared for the project, and was kept on site during fieldwork activities.

Fieldwork

Once USA was notified and the underground utilities were marked, a *GeoSolve, Inc.* field geologist observed Penecore Drilling, Inc., a State-licensed drilling contractor (C57-906899) of Woodland, California, advance three borings (B-4 through B-6) to groundwater on December 11, 2015. The locations of borings B-4 through B-6 are shown on Figure 2. Borings B-4 and B-5 were advanced on the northern portion of 1750 Webster Street and boring B-6 was advanced on the southern portion of 1750 Webster Street. The borings were advanced using a direct-push drilling rig, equipped with Enviro-Core (dual-tube) sampling system. Each sampling rod was lined with Acetate sample liners and each boring was continuously cored. Each boring was logged in accordance with the Unified Soil Classification System (USCS) and soil samples were hand-sawed at 1-foot, 5-feet, 10-feet, 15-feet, and 20-feet, 25-feet below ground surface (bgs). The soil sample ends were covered with Teflon tape, capped, labeled, and placed within a pre-chilled ice chest for temporary storage.

After the soil samples were collected from each boring, clean 1-inch diameter PVC well screening was inserted into each boring and groundwater “grab” samples were collected from each boring using a hand bailer, and decentered into laboratory supplied and pre-hydrochloric acidified 40 milliliter (ml) VOAs. Each VOA was sealed, checked for headspace, labeled, and placed within a pre-chilled ice-chest for temporary storage.

Once soil and groundwater samples were collected from each boring, the borings were backfilled with neat cement to grade.

Soil Sample Description

The subsurface materials encountered at the site included light brown to gray brown silty fine sand beneath the asphalt with minor fill immediately beneath the asphalt, to approximately 6 feet and 7 feet bgs in borings B-4 and B-6, which was underlain by gray brown silty clay. No silty clay was encountered in boring B-5. Light brown fine to medium sand was encountered beneath the silty clay and silty sand layers at 12 feet to 16 feet bgs, and were underlain by olive silty clay in boring B-5 at 24 feet bgs, while fine to medium sand was encountered to the total explored depth of 25 feet bgs.

Olive discoloration and strong petroleum odors were noted in borings B-4 through B-6 at approximately 21 feet bgs and slight to strong hydrocarbon odors at 18 feet to 20 feet bgs in borings



B-4 through B-6. Groundwater was encountered at 21 feet in borings B-4 and B-5 and 22 feet in boring B-6. Copies of the Boring Logs are attached to this letter report as Appendix A.

Laboratory Methods and Analyses

Selected soil and groundwater samples were delivered under chain-of-custody documentation to McCampbell Analytical, Inc., a State-certified hazardous waste sampling laboratory (Certification No. 1644) in Pittsburg, California.

Soil samples B4-1, B4-2, B4-3, B4-4, B4-5, B4-10, B4-20, B4-25, B5-1, B5-2, B5-3, B5-4, B5-5, B5-10, B5-20, B5-25, B6-1, B6-2, B6-3, B6-4, B6-5, B6-10, B6-20, and B6-25 were analyzed for total lead using Environmental Protection Agency (EPA) SW3050B/SW6010B. Soil samples B4-10, B4-20, B4-25, B5-10, B5-20, B5-25, B6-10, B6-20, B6-25 and groundwater grab samples B-4, B-5, and B-6 were analyzed for TPHg, BTEX, methyl tertiary butyl ether (MTBE), and VOCs using EPA Methods SW5030B/SW8021B/8015m and SW8260B. Groundwater grab samples were also analyzed for lead using EPA Method E200.8.

A summary of laboratory analyses are shown on Tables 1 and 2, Laboratory Analytical Results of Soil Samples and Groundwater Samples and a copy of the McCampbell Analytical, Inc. Laboratory Analytical Report and Chain-of-Custody Documents are attached to Appendix B.

TABLE 1
LABORATORY ANALYTICAL RESULTS OF SOIL SAMPLES
1750 Webster Street
Oakland, California
December 11, 2015

Sample ID	Sample Depth (feet)	TPHg (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	VOCs (mg/Kg)	Lead (mg/Kg)
B4-1	1	NA	NA	NA	NA	NA	NA	NA	<5.0
B4-2	2	NA	NA	NA	NA	NA	NA	NA	<5.0
B4-3	3	NA	NA	NA	NA	NA	NA	NA	<5.0
B4-4	4	NA	NA	NA	NA	NA	NA	NA	<5.0
B4-5	5	NA	NA	NA	NA	NA	NA	NA	<5.0
B4-10	10	<1.0	<0.005	<0.005	<0.005	0.016	<0.05	<0.005 - <0.1	<5.0
B4-20	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005 - <0.1	<5.0
B4-25	25	1.3	0.074	0.0072	0.089	0.020	<0.050	0.038	<5.0
B5-1	1	NA	NA	NA	NA	NA	NA	NA	<5.0
B5-2	2	NA	NA	NA	NA	NA	NA	NA	<5.0
B5-3	3	NA	NA	NA	NA	NA	NA	NA	<5.0
B5-4	4	NA	NA	NA	NA	NA	NA	NA	<5.0
B5-5	5	NA	NA	NA	NA	NA	NA	NA	<5.0
B5-10	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005 - <0.1	<5.0
B5-20	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005 - <0.1	<5.0
B5-25	25	<1.0	0.011	<0.005	<0.005	<0.005	<0.05	0.01	<5.0
B6-1	NA	NA	NA	NA	NA	NA	NA	170	6.2
B6-2	NA	NA	NA	NA	NA	NA	NA	170	6.2



Sample ID	Sample Depth (feet)	TPHg (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	VOCs (mg/Kg)	Lead (mg/Kg)
B6-3	NA	NA	NA	NA	NA	NA	NA	170	6.3
B6-4	NA	NA	NA	NA	NA	NA	NA	170	5.1
B6-5	NA	NA	NA	NA	NA	NA	NA	170	6.7
B6-10	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005 - <0.1	<5.0
B6-20	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005 - <0.1	<5.0
B6-25	25	800	0.68	4.7	10	45	<0.05	76 ^a	<5.0
ESLs	---	100	0.74	9.3	4.7	111	8.4	0.55 - 111	80

mg/Kg = milligrams per kilogram, equivalent to parts per million (ppm).

NA = not analyzed.

a = Total xylene concentration detected below ESL.

TABLE 2
LABORATORY ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
1750 Webster Street
Oakland, California
December 11, 2015

Sample ID	Sample Depth (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	VOCs (µg/L)	Lead (µg/L)
B-4	21	8,100	1,000	77	580	200	<500	930^a	430
B-5	21	6,800	620	73	140	140	<300	490^a	550
B-6	22	130,000	610	12,000	3,000	13,000	<900	13,000^b	3,500
ESLs	---	500	27	130	43	100	1,800	27 - 130	2.5

µg/L = micrograms per liter, equivalent to parts per billion (ppb).

a = Benzene concentration.

b = Toluene concentration.

Discussion

Based on the laboratory analytical results of soil samples, concentrations of TPHg, BTEX, or MTBE were not detected in all soil samples analyzed from borings B-4 through B-6 at 10 feet or 20 feet bgs, as shown on Table 1. Minor concentrations of TPHg and BTEX were detected at 25 feet in the soil samples collected from borings B-4 and B-5, while elevated concentrations TPHg and ethyl benzene were detected at 800 mg/Kg and 10 mg/Kg in sample B6-25, which were detected above the California Regional Water Quality Control Board – Region 2 (RWQCB) Environmental Screening Levels (ESLs) of 100 mg/Kg and 4.7 mg/Kg for residential development (Table B, December 2013). The other soil samples indicated TPH and BTEX concentrations below residential ESLs. In addition, no chlorinated hydrocarbons were detected in the soil samples. Lead was not detected in soil samples collected from borings B-4 and B-5 (less than 5.0 mg/Kg) and was detected up to 6.7 mg/Kg, which is below the residential ESL of 80 mg/Kg.

MTBE was not detected in any soil sample analyzed from borings B-4 through B-6.



Elevated concentrations of TPHg were detected above residential ESLs of 500 micrograms per liter ($\mu\text{g/L}$) at 6,800 $\mu\text{g/L}$ in boring B-5 to 130,000 $\mu\text{g/L}$ in groundwater sample B-6. Elevated concentrations of benzene, ethyl benzene and total xylenes were detected from 140 $\mu\text{g/L}$ to 13,000 $\mu\text{g/L}$, which exceeded the residential ESLs of 27 $\mu\text{g/L}$, 43 $\mu\text{g/L}$ and 100 $\mu\text{g/L}$, respectively. Lead was also detected above the residential ESL of 2.5 $\mu\text{g/L}$ at concentrations ranging from 430 $\mu\text{g/L}$ to 3,500 $\mu\text{g/L}$.

Conclusions

Based on the field and laboratory analytical results discussed in this Letter Report, *GeoSolve, Inc.* concludes the following:

- No detectable concentrations of TPHg or BTEX were reported in soil samples analyzed from 10 feet and 20 feet bgs. Minor concentrations of TPHg or BTEX were detected in the soil samples collected from 25 feet bgs in borings B-4 and B-5.
- No detectable concentrations of chlorinated hydrocarbons or MTBE were detected in any soil and/or groundwater samples analyzed from borings B-4 through B-6.
- Elevated concentrations of TPHg and BTEX were detected in soil sample B6-25 and in groundwater from borings B-4 through B-6, with the greatest concentration detected in groundwater from boring B-6. These elevated concentrations of TPHg and BTEX are most likely from the up-gradient and off-site source property at 1721 Webster Street.
- No elevated concentrations lead were detected in any soil sample analyzed from borings B-4 through B-6. Elevated concentrations of dissolved lead were detected in all groundwater samples collected from borings B-4 through B-6.

Recommendations

Based on the conclusions presented in this Letter Report, *GeoSolve, Inc.* concludes the following:

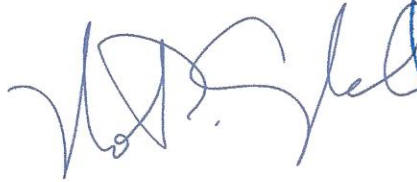
- In-situ passive remediation of the elevated concentrations of petroleum hydrocarbons in groundwater and in the capillary fringe zone (21 feet to 25 feet bgs) using bioremediation technologies.



If you have any questions or need further information regarding this Additional Phase II ESA, please call us at (925) 963-1198.

Sincerely,

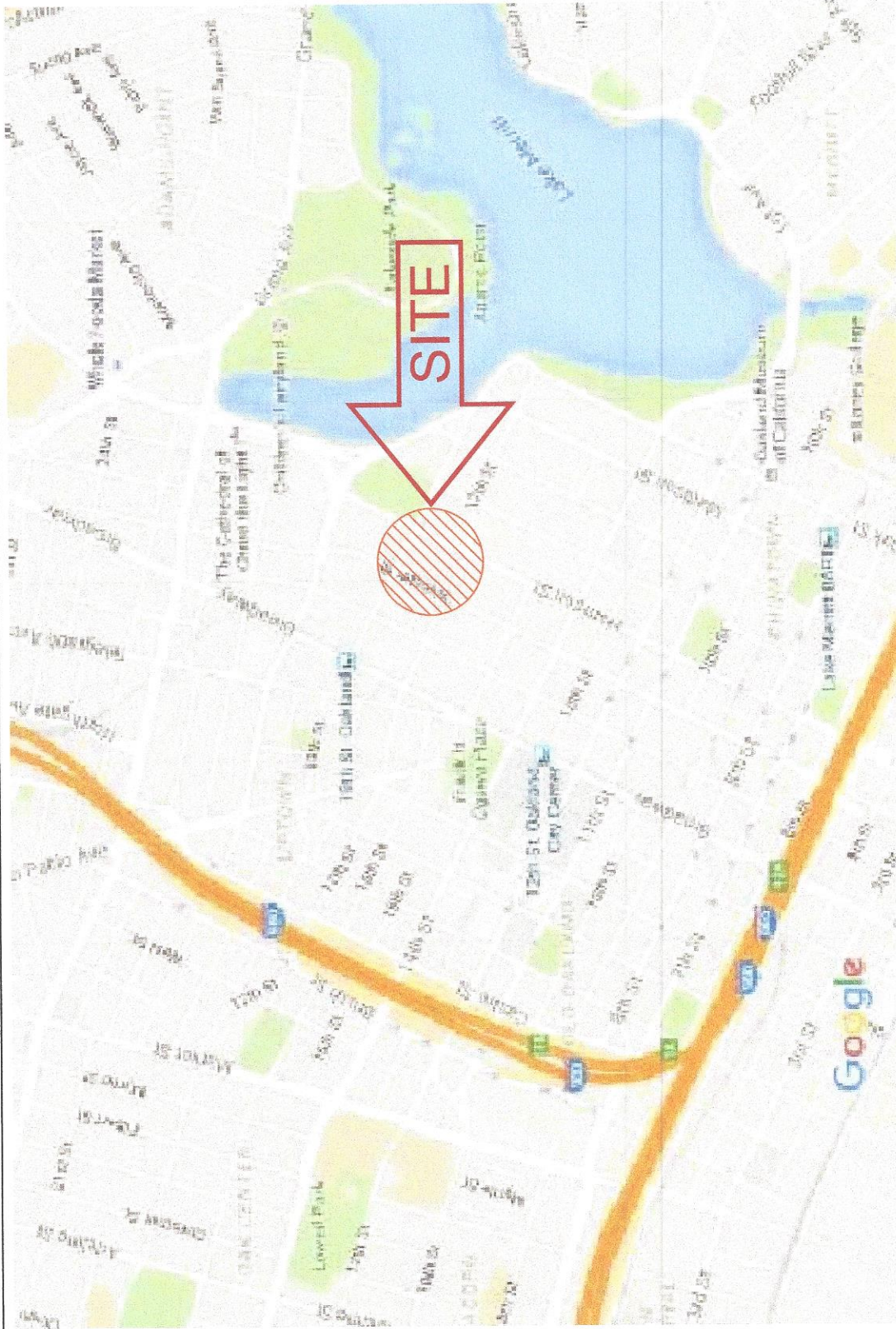
GeoSolve, Inc.



Robert D. Campbell, M.S., P.G., C.E.G., Q.S.D.
Principal Engineering Geologist

- Attachments:
- Figure 1, Site Vicinity Map
 - Figure 2, Site Plan
 - Appendix A – Logs of Borings
 - Appendix B – McCampbell Analytical, Inc. Laboratory Analytical Report and Chain-of-Custody Documents





Source: Google Maps, 2015

VICINITY MAP

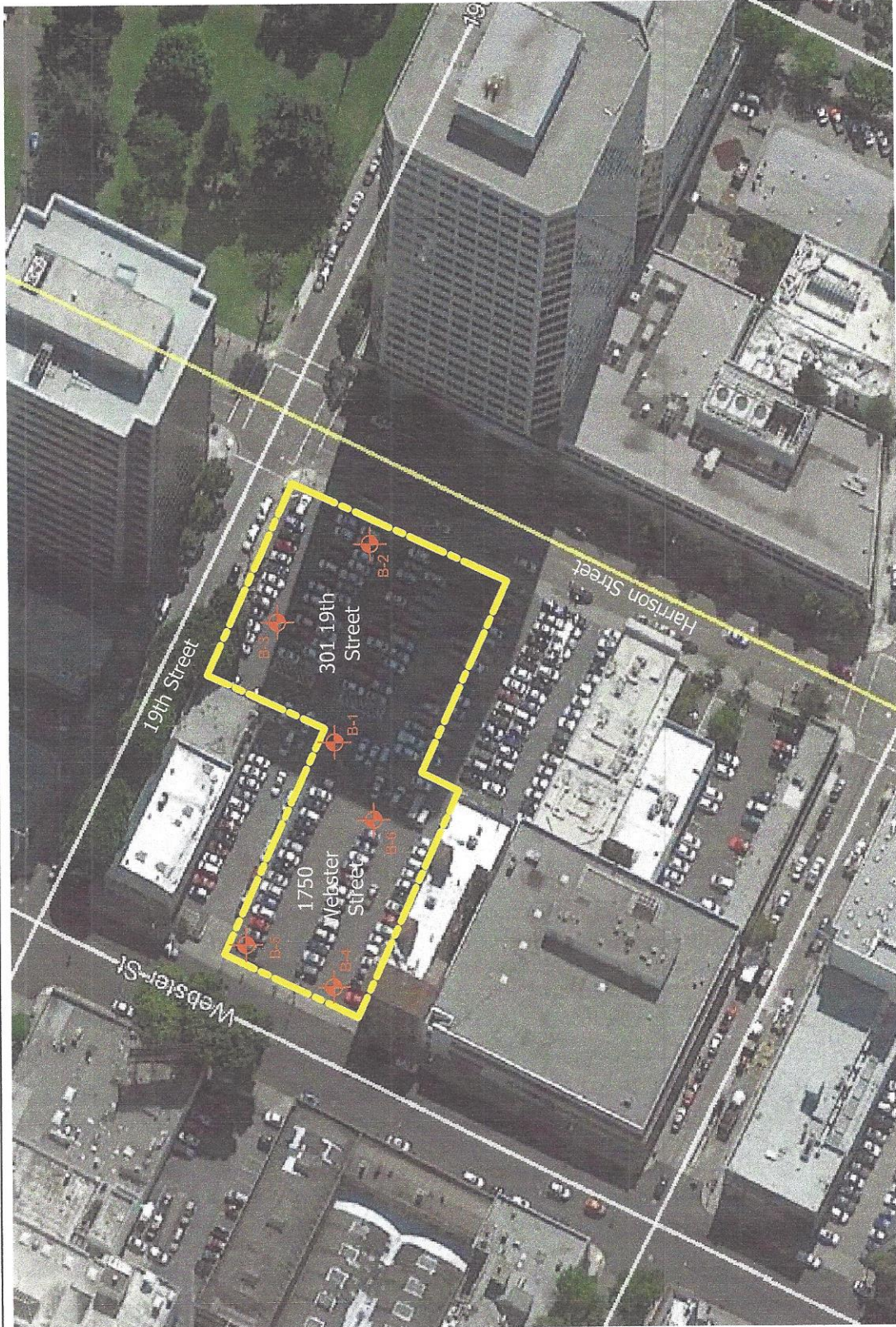
LENNAR MULTIFAMILY COMMUNITIES
PHASE II - ENVIRONMENTAL SITE ASSESSMENTS
1750 WEBSTER STREET and 301 19th STREET
OAKLAND, CALIFORNIA

Project No.	2015-29	Drawn by:	GC
Scale:	AS SHOWN	Date:	11/2015

1



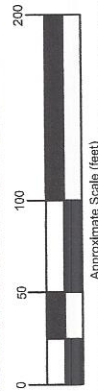
GeoSolve, Inc.
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Address: 1807 Santa Rita Rd, Suite D-165
Pleasanton, California 94566



LEGEND

--- Property Line

 B-4 Boring Location



Source: Google Earth, 2015

SITE PLAN

Figure No.

2

Project No.	2015-29	Drawn by:	GC
Scale:	AS SHOWN	Date:	12/2015

LENNAR MULTIFAMILY COMMUNITIES
 ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENTS
 1750 WEBSTER STREET and 301 19th STREET
 OAKLAND, CALIFORNIA




GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
 Address: 1807 Santa Rita Rd, Suite D-165
 Pleasanton, California 94566

for an address: geosolve.com

APPENDIX A
LOGS OF BORING



Depth (ft)	Soil Samples Sample No. & Type	Symbol	Soil Description	Unified Soil Classification	Blows/foot 300 ft-lb	q _u - t. s. t. Penetrometer	Dry Density p.c.f.	Moisture % Dry Wt.	Misc. Lab Result
1	B4-1	█	2 inches of asphalt Gray brown, silty fine SAND (SM), no odor, moist						
2	B4-2	█							
3	B4-3	█							
4	B4-4	█							
5	B4-5	█							
6									
7			Gray brown, fine sandy CLAY with silt (CL), no odor, very moist						
8									
9									
10	B4-10	█	Light brown, silty fine to medium SAND (SM), no odor, very moist						
11									
12									
13									
14									
15	B4-15	█	Light brown, fine to medium SAND (SP), no odor, very moist						
16									
17									
18									
19			Light olive, fine to medium SAND (SP), slight odor, very moist						
20	B4-20	█							
21			▼ Dark olive, medium SAND (SP), strong odor, wet						
22									
23									
24									
25	B4-25	█	Boring was terminated at 25 feet below ground surface (bgs). Groundwater was encountered at 21 feet bgs.						
26									
27									
28									
29									
30									

Logged by: RDC	Date Logged: 12/11/15	Diameter: 2.5"	BORING LOG		
 GeoSolve, Inc. <i>Geoscience solutions rather than Status-Quo</i> <small>Address: 1807 Santa Rita Rd, Suite D-165 Pleasanton, California 94566</small>			LENNAR MULTIFAMILY COMMUNITIES ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENTS 1750 WEBSTER STREET and 301 19th STREET OAKLAND, CALIFORNIA		Figure No. B-4
			Project No. 2015-29	Drawn by: GC	Scale: NA

Depth (ft)	Soil Samples Sample No. & Type Symbol	Soil Description	Unified Soil Classification	Blows/foot 300 ft-lb	Q _u - t. s. t. Penetrometer	Dry Density p.c.f.	Moisture % Dry Wt.	Misc. Lab Result
1	B5-1	2 inches of asphalt Light brown, silty fine SAND (SM), no odor, very moist						
2	B5-2							
3	B5-3							
4	B5-4							
5	B5-5							
6								
7		Gray brown, silty fine SAND (SM), no odor, very moist						
8								
9								
10	B5-10							
11								
12		Brown, fine to medium SAND (SP), no odor, moist						
13								
14								
15	B5-15							
16								
17								
18		grades olive gray at 18 feet, slight hydrocarbon odor						
19								
20	B5-20							
21		▼ Dark olive, medium SAND (SP), hydrocarbon odor, wet						
22								
23								
24								
25	B5-25	Dark olive, silty CLAY (CL), strong hydrocarbon odor, wet						
26		Boring was terminated at 25 feet below ground surface (bgs). Groundwater was encountered at 21 feet bgs.						
27								
28								
29								
30								

Logged by: RDC Date Logged: 12/11/15 Diameter: 2.5"

BORING LOG



GeoSolve, Inc.
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 Pleasanton, California 94566

LENNAR MULTIFAMILY COMMUNITIES
 ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENTS
 1750 WEBSTER STREET and 301 19th STREET
 OAKLAND, CALIFORNIA

Project No. 2015-29	Drawn by: GC	Scale: NA	Date: 12/2015
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Figure No.
B-5

Depth (ft)	Soil Samples Sample No. & Type	Symbol	Soil Description	Unified Soil Classification	Blows/foot 300 ft-lb	Qu - t. s. t. Penetrometer	Dry Density p.c.f.	Moisture % Dry Wt.	Misc. Lab Result
1	B6-1	■	2 inches of asphalt Black brown, silty fine SAND (SM), no odor, moist (FILL)						
2	B6-2	■							
3	B6-3	■	Gray brown, clayey SAND (SC), no odor, moist						
4	B6-4	■							
5	B6-5	■							
6			Gray brown, fine sandy (CLAY (CL), no odor, moist						
7									
8									
9									
10	B6-10	■							
11									
12			Gray brown, silty fine SAND (SM), no odor, very moist						
13									
14			Gray brown, fine to medium SAND (SP), no odor, moist						
15	B6-15	■							
16									
17									
18									
19									
20	B6-20	■	slight hydrocarbon odor at 20 feet						
21									
22		▼	Dark olive, medium SAND (SP), strong hydrocarbon odor, very moist						
23									
24									
25	B6-25	■	Boring was terminated at 25 feet below ground surface (bgs). Groundwater was encountered at 22 feet bgs.						
26									
27									
28									
29									
30									

Logged by: RDC Date Logged: 12/11/15 Diameter: 2.5"

BORING LOG



GeoSolve, Inc.
Geoscience solutions rather than Status-Quo
 Address: 1807 Santa Rita Rd, Suite D-165
 Pleasanton, California 94566

LENNAR MULTIFAMILY COMMUNITIES
 ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENTS
 1750 WEBSTER STREET and 301 19th STREET
 OAKLAND, CALIFORNIA

Project No. 2015-29	Drawn by: GC	Scale: NA	Date: 12/2015
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Figure No.
B-6

APPENDIX B

**McCAMPBELL ANALYTICAL, INC. LABORATORY ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTS**





McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1512545

Report Created for: Geosolve, Inc.

1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566

Project Contact: Rob Campbell

Project P.O.: 2015-29

Project Name: 2015-29; Webster- Lemar

Project Received: 12/11/2015

Analytical Report reviewed & approved for release on 12/18/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Geosolve, Inc.
Project: 2015-29; Webster- Lemar
WorkOrder: 1512545

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d17	Reporting limit for MTBE raised due to co-elution with non-target peaks.



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-10	1512545-006A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	12/18/2015 02:21
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/18/2015 02:21
Benzene	ND	0.0050	1	12/18/2015 02:21
Bromobenzene	ND	0.0050	1	12/18/2015 02:21
Bromochloromethane	ND	0.0050	1	12/18/2015 02:21
Bromodichloromethane	ND	0.0050	1	12/18/2015 02:21
Bromoform	ND	0.0050	1	12/18/2015 02:21
Bromomethane	ND	0.0050	1	12/18/2015 02:21
2-Butanone (MEK)	ND	0.020	1	12/18/2015 02:21
t-Butyl alcohol (TBA)	ND	0.050	1	12/18/2015 02:21
n-Butyl benzene	ND	0.0050	1	12/18/2015 02:21
sec-Butyl benzene	ND	0.0050	1	12/18/2015 02:21
tert-Butyl benzene	ND	0.0050	1	12/18/2015 02:21
Carbon Disulfide	ND	0.0050	1	12/18/2015 02:21
Carbon Tetrachloride	ND	0.0050	1	12/18/2015 02:21
Chlorobenzene	ND	0.0050	1	12/18/2015 02:21
Chloroethane	ND	0.0050	1	12/18/2015 02:21
Chloroform	ND	0.0050	1	12/18/2015 02:21
Chloromethane	ND	0.0050	1	12/18/2015 02:21
2-Chlorotoluene	ND	0.0050	1	12/18/2015 02:21
4-Chlorotoluene	ND	0.0050	1	12/18/2015 02:21
Dibromochloromethane	ND	0.0050	1	12/18/2015 02:21
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/18/2015 02:21
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/18/2015 02:21
Dibromomethane	ND	0.0050	1	12/18/2015 02:21
1,2-Dichlorobenzene	ND	0.0050	1	12/18/2015 02:21
1,3-Dichlorobenzene	ND	0.0050	1	12/18/2015 02:21
1,4-Dichlorobenzene	ND	0.0050	1	12/18/2015 02:21
Dichlorodifluoromethane	ND	0.0050	1	12/18/2015 02:21
1,1-Dichloroethane	ND	0.0050	1	12/18/2015 02:21
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/18/2015 02:21
1,1-Dichloroethene	ND	0.0050	1	12/18/2015 02:21
cis-1,2-Dichloroethene	ND	0.0050	1	12/18/2015 02:21
trans-1,2-Dichloroethene	ND	0.0050	1	12/18/2015 02:21
1,2-Dichloropropane	ND	0.0050	1	12/18/2015 02:21
1,3-Dichloropropane	ND	0.0050	1	12/18/2015 02:21
2,2-Dichloropropane	ND	0.0050	1	12/18/2015 02:21

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-10	1512545-006A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/18/2015 02:21	
cis-1,3-Dichloropropene	ND	0.0050	1	12/18/2015 02:21	
trans-1,3-Dichloropropene	ND	0.0050	1	12/18/2015 02:21	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/18/2015 02:21	
Ethylbenzene	ND	0.0050	1	12/18/2015 02:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/18/2015 02:21	
Freon 113	ND	0.0050	1	12/18/2015 02:21	
Hexachlorobutadiene	ND	0.0050	1	12/18/2015 02:21	
Hexachloroethane	ND	0.0050	1	12/18/2015 02:21	
2-Hexanone	ND	0.0050	1	12/18/2015 02:21	
Isopropylbenzene	ND	0.0050	1	12/18/2015 02:21	
4-Isopropyl toluene	ND	0.0050	1	12/18/2015 02:21	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/18/2015 02:21	
Methylene chloride	ND	0.0050	1	12/18/2015 02:21	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/18/2015 02:21	
Naphthalene	ND	0.0050	1	12/18/2015 02:21	
n-Propyl benzene	ND	0.0050	1	12/18/2015 02:21	
Styrene	ND	0.0050	1	12/18/2015 02:21	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/18/2015 02:21	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/18/2015 02:21	
Tetrachloroethene	ND	0.0050	1	12/18/2015 02:21	
Toluene	ND	0.0050	1	12/18/2015 02:21	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/18/2015 02:21	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/18/2015 02:21	
1,1,1-Trichloroethane	ND	0.0050	1	12/18/2015 02:21	
1,1,2-Trichloroethane	ND	0.0050	1	12/18/2015 02:21	
Trichloroethene	ND	0.0050	1	12/18/2015 02:21	
Trichlorofluoromethane	ND	0.0050	1	12/18/2015 02:21	
1,2,3-Trichloropropane	ND	0.0050	1	12/18/2015 02:21	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/18/2015 02:21	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/18/2015 02:21	
Vinyl Chloride	ND	0.0050	1	12/18/2015 02:21	
Xylenes, Total	ND	0.0050	1	12/18/2015 02:21	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-10	1512545-006A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	114	70-130		12/18/2015 02:21
Toluene-d8	127	70-130		12/18/2015 02:21
4-BFB	82	70-130		12/18/2015 02:21
Benzene-d6	103	60-140		12/18/2015 02:21
Ethylbenzene-d10	94	60-140		12/18/2015 02:21
1,2-DCB-d4	94	60-140		12/18/2015 02:21

Analyst(s): KF



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-20	1512545-008A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	12/17/2015 15:29
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 15:29
Benzene	ND	0.0050	1	12/17/2015 15:29
Bromobenzene	ND	0.0050	1	12/17/2015 15:29
Bromochloromethane	ND	0.0050	1	12/17/2015 15:29
Bromodichloromethane	ND	0.0050	1	12/17/2015 15:29
Bromoform	ND	0.0050	1	12/17/2015 15:29
Bromomethane	ND	0.0050	1	12/17/2015 15:29
2-Butanone (MEK)	ND	0.020	1	12/17/2015 15:29
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 15:29
n-Butyl benzene	ND	0.0050	1	12/17/2015 15:29
sec-Butyl benzene	ND	0.0050	1	12/17/2015 15:29
tert-Butyl benzene	ND	0.0050	1	12/17/2015 15:29
Carbon Disulfide	ND	0.0050	1	12/17/2015 15:29
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 15:29
Chlorobenzene	ND	0.0050	1	12/17/2015 15:29
Chloroethane	ND	0.0050	1	12/17/2015 15:29
Chloroform	ND	0.0050	1	12/17/2015 15:29
Chloromethane	ND	0.0050	1	12/17/2015 15:29
2-Chlorotoluene	ND	0.0050	1	12/17/2015 15:29
4-Chlorotoluene	ND	0.0050	1	12/17/2015 15:29
Dibromochloromethane	ND	0.0050	1	12/17/2015 15:29
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 15:29
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 15:29
Dibromomethane	ND	0.0050	1	12/17/2015 15:29
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 15:29
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 15:29
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 15:29
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 15:29
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 15:29
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 15:29
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 15:29
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 15:29
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 15:29
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 15:29
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 15:29
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 15:29

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-20	1512545-008A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 15:29	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 15:29	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 15:29	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 15:29	
Ethylbenzene	ND	0.0050	1	12/17/2015 15:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 15:29	
Freon 113	ND	0.0050	1	12/17/2015 15:29	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 15:29	
Hexachloroethane	ND	0.0050	1	12/17/2015 15:29	
2-Hexanone	ND	0.0050	1	12/17/2015 15:29	
Isopropylbenzene	ND	0.0050	1	12/17/2015 15:29	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 15:29	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 15:29	
Methylene chloride	ND	0.0050	1	12/17/2015 15:29	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 15:29	
Naphthalene	ND	0.0050	1	12/17/2015 15:29	
n-Propyl benzene	ND	0.0050	1	12/17/2015 15:29	
Styrene	ND	0.0050	1	12/17/2015 15:29	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 15:29	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 15:29	
Tetrachloroethene	ND	0.0050	1	12/17/2015 15:29	
Toluene	ND	0.0050	1	12/17/2015 15:29	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 15:29	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 15:29	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 15:29	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 15:29	
Trichloroethene	ND	0.0050	1	12/17/2015 15:29	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 15:29	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 15:29	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 15:29	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 15:29	
Vinyl Chloride	ND	0.0050	1	12/17/2015 15:29	
Xylenes, Total	ND	0.0050	1	12/17/2015 15:29	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-20	1512545-008A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	114	70-130		12/17/2015 15:29
Toluene-d8	127	70-130		12/17/2015 15:29
4-BFB	82	70-130		12/17/2015 15:29
Benzene-d6	76	60-140		12/17/2015 15:29
Ethylbenzene-d10	80	60-140		12/17/2015 15:29
1,2-DCB-d4	86	60-140		12/17/2015 15:29

Analyst(s): AK



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-25	1512545-009A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	12/17/2015 14:51	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 14:51	
Benzene	0.038	0.0050	1	12/17/2015 14:51	
Bromobenzene	ND	0.0050	1	12/17/2015 14:51	
Bromochloromethane	ND	0.0050	1	12/17/2015 14:51	
Bromodichloromethane	ND	0.0050	1	12/17/2015 14:51	
Bromoform	ND	0.0050	1	12/17/2015 14:51	
Bromomethane	ND	0.0050	1	12/17/2015 14:51	
2-Butanone (MEK)	ND	0.020	1	12/17/2015 14:51	
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 14:51	
n-Butyl benzene	ND	0.0050	1	12/17/2015 14:51	
sec-Butyl benzene	ND	0.0050	1	12/17/2015 14:51	
tert-Butyl benzene	ND	0.0050	1	12/17/2015 14:51	
Carbon Disulfide	ND	0.0050	1	12/17/2015 14:51	
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 14:51	
Chlorobenzene	ND	0.0050	1	12/17/2015 14:51	
Chloroethane	ND	0.0050	1	12/17/2015 14:51	
Chloroform	ND	0.0050	1	12/17/2015 14:51	
Chloromethane	ND	0.0050	1	12/17/2015 14:51	
2-Chlorotoluene	ND	0.0050	1	12/17/2015 14:51	
4-Chlorotoluene	ND	0.0050	1	12/17/2015 14:51	
Dibromochloromethane	ND	0.0050	1	12/17/2015 14:51	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 14:51	
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 14:51	
Dibromomethane	ND	0.0050	1	12/17/2015 14:51	
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:51	
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:51	
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:51	
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 14:51	
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 14:51	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 14:51	
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 14:51	
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 14:51	
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 14:51	
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 14:51	
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 14:51	
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 14:51	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-25	1512545-009A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 14:51	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 14:51	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 14:51	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 14:51	
Ethylbenzene	0.032	0.0050	1	12/17/2015 14:51	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 14:51	
Freon 113	ND	0.0050	1	12/17/2015 14:51	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 14:51	
Hexachloroethane	ND	0.0050	1	12/17/2015 14:51	
2-Hexanone	ND	0.0050	1	12/17/2015 14:51	
Isopropylbenzene	ND	0.0050	1	12/17/2015 14:51	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 14:51	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 14:51	
Methylene chloride	ND	0.0050	1	12/17/2015 14:51	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 14:51	
Naphthalene	0.018	0.0050	1	12/17/2015 14:51	
n-Propyl benzene	0.010	0.0050	1	12/17/2015 14:51	
Styrene	ND	0.0050	1	12/17/2015 14:51	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 14:51	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 14:51	
Tetrachloroethene	ND	0.0050	1	12/17/2015 14:51	
Toluene	ND	0.0050	1	12/17/2015 14:51	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 14:51	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 14:51	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 14:51	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 14:51	
Trichloroethene	ND	0.0050	1	12/17/2015 14:51	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 14:51	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 14:51	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 14:51	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 14:51	
Vinyl Chloride	ND	0.0050	1	12/17/2015 14:51	
Xylenes, Total	0.0056	0.0050	1	12/17/2015 14:51	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-25	1512545-009A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	115	70-130		12/17/2015 14:51
Toluene-d8	126	70-130		12/17/2015 14:51
4-BFB	81	70-130		12/17/2015 14:51
Benzene-d6	101	60-140		12/17/2015 14:51
Ethylbenzene-d10	95	60-140		12/17/2015 14:51
1,2-DCB-d4	93	60-140		12/17/2015 14:51

Analyst(s): AK



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-10	1512545-015A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	12/17/2015 14:13
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 14:13
Benzene	ND	0.0050	1	12/17/2015 14:13
Bromobenzene	ND	0.0050	1	12/17/2015 14:13
Bromochloromethane	ND	0.0050	1	12/17/2015 14:13
Bromodichloromethane	ND	0.0050	1	12/17/2015 14:13
Bromoform	ND	0.0050	1	12/17/2015 14:13
Bromomethane	ND	0.0050	1	12/17/2015 14:13
2-Butanone (MEK)	ND	0.020	1	12/17/2015 14:13
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 14:13
n-Butyl benzene	ND	0.0050	1	12/17/2015 14:13
sec-Butyl benzene	ND	0.0050	1	12/17/2015 14:13
tert-Butyl benzene	ND	0.0050	1	12/17/2015 14:13
Carbon Disulfide	ND	0.0050	1	12/17/2015 14:13
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 14:13
Chlorobenzene	ND	0.0050	1	12/17/2015 14:13
Chloroethane	ND	0.0050	1	12/17/2015 14:13
Chloroform	ND	0.0050	1	12/17/2015 14:13
Chloromethane	ND	0.0050	1	12/17/2015 14:13
2-Chlorotoluene	ND	0.0050	1	12/17/2015 14:13
4-Chlorotoluene	ND	0.0050	1	12/17/2015 14:13
Dibromochloromethane	ND	0.0050	1	12/17/2015 14:13
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 14:13
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 14:13
Dibromomethane	ND	0.0050	1	12/17/2015 14:13
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:13
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:13
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 14:13
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 14:13
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 14:13
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 14:13
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 14:13
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 14:13
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 14:13
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 14:13
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 14:13
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 14:13

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-10	1512545-015A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 14:13	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 14:13	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 14:13	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 14:13	
Ethylbenzene	ND	0.0050	1	12/17/2015 14:13	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 14:13	
Freon 113	ND	0.0050	1	12/17/2015 14:13	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 14:13	
Hexachloroethane	ND	0.0050	1	12/17/2015 14:13	
2-Hexanone	ND	0.0050	1	12/17/2015 14:13	
Isopropylbenzene	ND	0.0050	1	12/17/2015 14:13	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 14:13	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 14:13	
Methylene chloride	ND	0.0050	1	12/17/2015 14:13	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 14:13	
Naphthalene	ND	0.0050	1	12/17/2015 14:13	
n-Propyl benzene	ND	0.0050	1	12/17/2015 14:13	
Styrene	ND	0.0050	1	12/17/2015 14:13	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 14:13	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 14:13	
Tetrachloroethene	ND	0.0050	1	12/17/2015 14:13	
Toluene	ND	0.0050	1	12/17/2015 14:13	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 14:13	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 14:13	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 14:13	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 14:13	
Trichloroethene	ND	0.0050	1	12/17/2015 14:13	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 14:13	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 14:13	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 14:13	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 14:13	
Vinyl Chloride	ND	0.0050	1	12/17/2015 14:13	
Xylenes, Total	ND	0.0050	1	12/17/2015 14:13	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-10	1512545-015A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	114	70-130		12/17/2015 14:13
Toluene-d8	130	70-130		12/17/2015 14:13
4-BFB	82	70-130		12/17/2015 14:13
Benzene-d6	107	60-140		12/17/2015 14:13
Ethylbenzene-d10	103	60-140		12/17/2015 14:13
1,2-DCB-d4	98	60-140		12/17/2015 14:13

Analyst(s): AK



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-20	1512545-017A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	12/17/2015 13:34	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 13:34	
Benzene	ND	0.0050	1	12/17/2015 13:34	
Bromobenzene	ND	0.0050	1	12/17/2015 13:34	
Bromochloromethane	ND	0.0050	1	12/17/2015 13:34	
Bromodichloromethane	ND	0.0050	1	12/17/2015 13:34	
Bromoform	ND	0.0050	1	12/17/2015 13:34	
Bromomethane	ND	0.0050	1	12/17/2015 13:34	
2-Butanone (MEK)	ND	0.020	1	12/17/2015 13:34	
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 13:34	
n-Butyl benzene	ND	0.0050	1	12/17/2015 13:34	
sec-Butyl benzene	ND	0.0050	1	12/17/2015 13:34	
tert-Butyl benzene	ND	0.0050	1	12/17/2015 13:34	
Carbon Disulfide	ND	0.0050	1	12/17/2015 13:34	
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 13:34	
Chlorobenzene	ND	0.0050	1	12/17/2015 13:34	
Chloroethane	ND	0.0050	1	12/17/2015 13:34	
Chloroform	ND	0.0050	1	12/17/2015 13:34	
Chloromethane	ND	0.0050	1	12/17/2015 13:34	
2-Chlorotoluene	ND	0.0050	1	12/17/2015 13:34	
4-Chlorotoluene	ND	0.0050	1	12/17/2015 13:34	
Dibromochloromethane	ND	0.0050	1	12/17/2015 13:34	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 13:34	
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 13:34	
Dibromomethane	ND	0.0050	1	12/17/2015 13:34	
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 13:34	
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 13:34	
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 13:34	
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 13:34	
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 13:34	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 13:34	
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 13:34	
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 13:34	
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 13:34	
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 13:34	
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 13:34	
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 13:34	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-20	1512545-017A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 13:34	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 13:34	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 13:34	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 13:34	
Ethylbenzene	ND	0.0050	1	12/17/2015 13:34	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 13:34	
Freon 113	ND	0.0050	1	12/17/2015 13:34	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 13:34	
Hexachloroethane	ND	0.0050	1	12/17/2015 13:34	
2-Hexanone	ND	0.0050	1	12/17/2015 13:34	
Isopropylbenzene	ND	0.0050	1	12/17/2015 13:34	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 13:34	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 13:34	
Methylene chloride	ND	0.0050	1	12/17/2015 13:34	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 13:34	
Naphthalene	ND	0.0050	1	12/17/2015 13:34	
n-Propyl benzene	ND	0.0050	1	12/17/2015 13:34	
Styrene	ND	0.0050	1	12/17/2015 13:34	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 13:34	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 13:34	
Tetrachloroethene	ND	0.0050	1	12/17/2015 13:34	
Toluene	ND	0.0050	1	12/17/2015 13:34	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 13:34	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 13:34	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 13:34	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 13:34	
Trichloroethene	ND	0.0050	1	12/17/2015 13:34	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 13:34	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 13:34	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 13:34	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 13:34	
Vinyl Chloride	ND	0.0050	1	12/17/2015 13:34	
Xylenes, Total	ND	0.0050	1	12/17/2015 13:34	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-20	1512545-017A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	90	70-130		12/17/2015 13:34
Toluene-d8	110	70-130		12/17/2015 13:34
4-BFB	74	70-130		12/17/2015 13:34
Benzene-d6	90	60-140		12/17/2015 13:34
Ethylbenzene-d10	90	60-140		12/17/2015 13:34
1,2-DCB-d4	88	60-140		12/17/2015 13:34

Analyst(s): AK



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-25	1512545-018A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	12/17/2015 16:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 16:07	
Benzene	0.0077	0.0050	1	12/17/2015 16:07	
Bromobenzene	ND	0.0050	1	12/17/2015 16:07	
Bromochloromethane	ND	0.0050	1	12/17/2015 16:07	
Bromodichloromethane	ND	0.0050	1	12/17/2015 16:07	
Bromoform	ND	0.0050	1	12/17/2015 16:07	
Bromomethane	ND	0.0050	1	12/17/2015 16:07	
2-Butanone (MEK)	ND	0.020	1	12/17/2015 16:07	
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 16:07	
n-Butyl benzene	ND	0.0050	1	12/17/2015 16:07	
sec-Butyl benzene	ND	0.0050	1	12/17/2015 16:07	
tert-Butyl benzene	ND	0.0050	1	12/17/2015 16:07	
Carbon Disulfide	ND	0.0050	1	12/17/2015 16:07	
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 16:07	
Chlorobenzene	ND	0.0050	1	12/17/2015 16:07	
Chloroethane	ND	0.0050	1	12/17/2015 16:07	
Chloroform	ND	0.0050	1	12/17/2015 16:07	
Chloromethane	ND	0.0050	1	12/17/2015 16:07	
2-Chlorotoluene	ND	0.0050	1	12/17/2015 16:07	
4-Chlorotoluene	ND	0.0050	1	12/17/2015 16:07	
Dibromochloromethane	ND	0.0050	1	12/17/2015 16:07	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 16:07	
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 16:07	
Dibromomethane	ND	0.0050	1	12/17/2015 16:07	
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 16:07	
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 16:07	
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 16:07	
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 16:07	
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 16:07	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 16:07	
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 16:07	
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 16:07	
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 16:07	
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 16:07	
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 16:07	
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 16:07	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-25	1512545-018A	Soil	12/11/2015	GC18	114095
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 16:07	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 16:07	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 16:07	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 16:07	
Ethylbenzene	ND	0.0050	1	12/17/2015 16:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 16:07	
Freon 113	ND	0.0050	1	12/17/2015 16:07	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 16:07	
Hexachloroethane	ND	0.0050	1	12/17/2015 16:07	
2-Hexanone	ND	0.0050	1	12/17/2015 16:07	
Isopropylbenzene	ND	0.0050	1	12/17/2015 16:07	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 16:07	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 16:07	
Methylene chloride	ND	0.0050	1	12/17/2015 16:07	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 16:07	
Naphthalene	0.010	0.0050	1	12/17/2015 16:07	
n-Propyl benzene	ND	0.0050	1	12/17/2015 16:07	
Styrene	ND	0.0050	1	12/17/2015 16:07	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 16:07	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 16:07	
Tetrachloroethene	ND	0.0050	1	12/17/2015 16:07	
Toluene	ND	0.0050	1	12/17/2015 16:07	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 16:07	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 16:07	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 16:07	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 16:07	
Trichloroethene	ND	0.0050	1	12/17/2015 16:07	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 16:07	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 16:07	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 16:07	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 16:07	
Vinyl Chloride	ND	0.0050	1	12/17/2015 16:07	
Xylenes, Total	ND	0.0050	1	12/17/2015 16:07	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-25	1512545-018A	Soil	12/11/2015	GC18	114095

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	114	70-130		12/17/2015 16:07
Toluene-d8	127	70-130		12/17/2015 16:07
4-BFB	82	70-130		12/17/2015 16:07
Benzene-d6	69	60-140		12/17/2015 16:07
Ethylbenzene-d10	80	60-140		12/17/2015 16:07
1,2-DCB-d4	89	60-140		12/17/2015 16:07

Analyst(s): AK



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-10	1512545-024A	Soil	12/11/2015	GC18	114128
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	12/17/2015 11:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/17/2015 11:40	
Benzene	ND	0.0050	1	12/17/2015 11:40	
Bromobenzene	ND	0.0050	1	12/17/2015 11:40	
Bromochloromethane	ND	0.0050	1	12/17/2015 11:40	
Bromodichloromethane	ND	0.0050	1	12/17/2015 11:40	
Bromoform	ND	0.0050	1	12/17/2015 11:40	
Bromomethane	ND	0.0050	1	12/17/2015 11:40	
2-Butanone (MEK)	ND	0.020	1	12/17/2015 11:40	
t-Butyl alcohol (TBA)	ND	0.050	1	12/17/2015 11:40	
n-Butyl benzene	ND	0.0050	1	12/17/2015 11:40	
sec-Butyl benzene	ND	0.0050	1	12/17/2015 11:40	
tert-Butyl benzene	ND	0.0050	1	12/17/2015 11:40	
Carbon Disulfide	ND	0.0050	1	12/17/2015 11:40	
Carbon Tetrachloride	ND	0.0050	1	12/17/2015 11:40	
Chlorobenzene	ND	0.0050	1	12/17/2015 11:40	
Chloroethane	ND	0.0050	1	12/17/2015 11:40	
Chloroform	ND	0.0050	1	12/17/2015 11:40	
Chloromethane	ND	0.0050	1	12/17/2015 11:40	
2-Chlorotoluene	ND	0.0050	1	12/17/2015 11:40	
4-Chlorotoluene	ND	0.0050	1	12/17/2015 11:40	
Dibromochloromethane	ND	0.0050	1	12/17/2015 11:40	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/17/2015 11:40	
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/17/2015 11:40	
Dibromomethane	ND	0.0050	1	12/17/2015 11:40	
1,2-Dichlorobenzene	ND	0.0050	1	12/17/2015 11:40	
1,3-Dichlorobenzene	ND	0.0050	1	12/17/2015 11:40	
1,4-Dichlorobenzene	ND	0.0050	1	12/17/2015 11:40	
Dichlorodifluoromethane	ND	0.0050	1	12/17/2015 11:40	
1,1-Dichloroethane	ND	0.0050	1	12/17/2015 11:40	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/17/2015 11:40	
1,1-Dichloroethene	ND	0.0050	1	12/17/2015 11:40	
cis-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 11:40	
trans-1,2-Dichloroethene	ND	0.0050	1	12/17/2015 11:40	
1,2-Dichloropropane	ND	0.0050	1	12/17/2015 11:40	
1,3-Dichloropropane	ND	0.0050	1	12/17/2015 11:40	
2,2-Dichloropropane	ND	0.0050	1	12/17/2015 11:40	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-10	1512545-024A	Soil	12/11/2015	GC18	114128
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/17/2015 11:40	
cis-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 11:40	
trans-1,3-Dichloropropene	ND	0.0050	1	12/17/2015 11:40	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/17/2015 11:40	
Ethylbenzene	ND	0.0050	1	12/17/2015 11:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/17/2015 11:40	
Freon 113	ND	0.0050	1	12/17/2015 11:40	
Hexachlorobutadiene	ND	0.0050	1	12/17/2015 11:40	
Hexachloroethane	ND	0.0050	1	12/17/2015 11:40	
2-Hexanone	ND	0.0050	1	12/17/2015 11:40	
Isopropylbenzene	ND	0.0050	1	12/17/2015 11:40	
4-Isopropyl toluene	ND	0.0050	1	12/17/2015 11:40	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/17/2015 11:40	
Methylene chloride	ND	0.0050	1	12/17/2015 11:40	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/17/2015 11:40	
Naphthalene	ND	0.0050	1	12/17/2015 11:40	
n-Propyl benzene	ND	0.0050	1	12/17/2015 11:40	
Styrene	ND	0.0050	1	12/17/2015 11:40	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 11:40	
1,1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/17/2015 11:40	
Tetrachloroethene	ND	0.0050	1	12/17/2015 11:40	
Toluene	ND	0.0050	1	12/17/2015 11:40	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/17/2015 11:40	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/17/2015 11:40	
1,1,1-Trichloroethane	ND	0.0050	1	12/17/2015 11:40	
1,1,2-Trichloroethane	ND	0.0050	1	12/17/2015 11:40	
Trichloroethene	ND	0.0050	1	12/17/2015 11:40	
Trichlorofluoromethane	ND	0.0050	1	12/17/2015 11:40	
1,2,3-Trichloropropane	ND	0.0050	1	12/17/2015 11:40	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/17/2015 11:40	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/17/2015 11:40	
Vinyl Chloride	ND	0.0050	1	12/17/2015 11:40	
Xylenes, Total	ND	0.0050	1	12/17/2015 11:40	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-10	1512545-024A	Soil	12/11/2015	GC18	114128

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	119	70-130		12/17/2015 11:40
Toluene-d8	127	70-130		12/17/2015 11:40
4-BFB	83	70-130		12/17/2015 11:40
Benzene-d6	120	60-140		12/17/2015 11:40
Ethylbenzene-d10	105	60-140		12/17/2015 11:40
1,2-DCB-d4	103	60-140		12/17/2015 11:40

Analyst(s): KF



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-4	1512545-025B	Water	12/11/2015	GC28	114307
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	500	50	12/17/2015 02:31	
tert-Amyl methyl ether (TAME)	ND	25	50	12/17/2015 02:31	
Benzene	930	25	50	12/17/2015 02:31	
Bromobenzene	ND	25	50	12/17/2015 02:31	
Bromochloromethane	ND	25	50	12/17/2015 02:31	
Bromodichloromethane	ND	25	50	12/17/2015 02:31	
Bromoform	ND	25	50	12/17/2015 02:31	
Bromomethane	ND	25	50	12/17/2015 02:31	
2-Butanone (MEK)	ND	100	50	12/17/2015 02:31	
t-Butyl alcohol (TBA)	ND	100	50	12/17/2015 02:31	
n-Butyl benzene	ND	25	50	12/17/2015 02:31	
sec-Butyl benzene	ND	25	50	12/17/2015 02:31	
tert-Butyl benzene	ND	25	50	12/17/2015 02:31	
Carbon Disulfide	ND	25	50	12/17/2015 02:31	
Carbon Tetrachloride	ND	25	50	12/17/2015 02:31	
Chlorobenzene	ND	25	50	12/17/2015 02:31	
Chloroethane	ND	25	50	12/17/2015 02:31	
Chloroform	ND	25	50	12/17/2015 02:31	
Chloromethane	ND	25	50	12/17/2015 02:31	
2-Chlorotoluene	ND	25	50	12/17/2015 02:31	
4-Chlorotoluene	ND	25	50	12/17/2015 02:31	
Dibromochloromethane	ND	25	50	12/17/2015 02:31	
1,2-Dibromo-3-chloropropane	ND	10	50	12/17/2015 02:31	
1,2-Dibromoethane (EDB)	ND	25	50	12/17/2015 02:31	
Dibromomethane	ND	25	50	12/17/2015 02:31	
1,2-Dichlorobenzene	ND	25	50	12/17/2015 02:31	
1,3-Dichlorobenzene	ND	25	50	12/17/2015 02:31	
1,4-Dichlorobenzene	ND	25	50	12/17/2015 02:31	
Dichlorodifluoromethane	ND	25	50	12/17/2015 02:31	
1,1-Dichloroethane	ND	25	50	12/17/2015 02:31	
1,2-Dichloroethane (1,2-DCA)	ND	25	50	12/17/2015 02:31	
1,1-Dichloroethene	ND	25	50	12/17/2015 02:31	
cis-1,2-Dichloroethene	ND	25	50	12/17/2015 02:31	
trans-1,2-Dichloroethene	ND	25	50	12/17/2015 02:31	
1,2-Dichloropropane	ND	25	50	12/17/2015 02:31	
1,3-Dichloropropane	ND	25	50	12/17/2015 02:31	
2,2-Dichloropropane	ND	25	50	12/17/2015 02:31	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-4	1512545-025B	Water	12/11/2015	GC28	114307
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	25	50	12/17/2015 02:31	
cis-1,3-Dichloropropene	ND	25	50	12/17/2015 02:31	
trans-1,3-Dichloropropene	ND	25	50	12/17/2015 02:31	
Diisopropyl ether (DIPE)	ND	25	50	12/17/2015 02:31	
Ethylbenzene	570	25	50	12/17/2015 02:31	
Ethyl tert-butyl ether (ETBE)	ND	25	50	12/17/2015 02:31	
Freon 113	ND	25	50	12/17/2015 02:31	
Hexachlorobutadiene	ND	25	50	12/17/2015 02:31	
Hexachloroethane	ND	25	50	12/17/2015 02:31	
2-Hexanone	ND	25	50	12/17/2015 02:31	
Isopropylbenzene	86	25	50	12/17/2015 02:31	
4-Isopropyl toluene	ND	25	50	12/17/2015 02:31	
Methyl-t-butyl ether (MTBE)	ND	25	50	12/17/2015 02:31	
Methylene chloride	ND	25	50	12/17/2015 02:31	
4-Methyl-2-pentanone (MIBK)	ND	25	50	12/17/2015 02:31	
Naphthalene	220	25	50	12/17/2015 02:31	
n-Propyl benzene	150	25	50	12/17/2015 02:31	
Styrene	ND	25	50	12/17/2015 02:31	
1,1,1,2-Tetrachloroethane	ND	25	50	12/17/2015 02:31	
1,1,2,2-Tetrachloroethane	ND	25	50	12/17/2015 02:31	
Tetrachloroethene	ND	25	50	12/17/2015 02:31	
Toluene	72	25	50	12/17/2015 02:31	
1,2,3-Trichlorobenzene	ND	25	50	12/17/2015 02:31	
1,2,4-Trichlorobenzene	ND	25	50	12/17/2015 02:31	
1,1,1-Trichloroethane	ND	25	50	12/17/2015 02:31	
1,1,2-Trichloroethane	ND	25	50	12/17/2015 02:31	
Trichloroethene	ND	25	50	12/17/2015 02:31	
Trichlorofluoromethane	ND	25	50	12/17/2015 02:31	
1,2,3-Trichloropropane	ND	25	50	12/17/2015 02:31	
1,2,4-Trimethylbenzene	ND	25	50	12/17/2015 02:31	
1,3,5-Trimethylbenzene	ND	25	50	12/17/2015 02:31	
Vinyl Chloride	29	25	50	12/17/2015 02:31	
Xylenes, Total	180	25	50	12/17/2015 02:31	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-4	1512545-025B	Water	12/11/2015	GC28	114307

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	110	70-130		12/17/2015 02:31
Toluene-d8	112	70-130		12/17/2015 02:31
4-BFB	103	70-130		12/17/2015 02:31

Analyst(s): KF



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-5	1512545-026B	Water	12/11/2015	GC28	114237

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	500	50	12/17/2015 03:09
tert-Amyl methyl ether (TAME)	ND	25	50	12/17/2015 03:09
Benzene	490	25	50	12/17/2015 03:09
Bromobenzene	ND	25	50	12/17/2015 03:09
Bromochloromethane	ND	25	50	12/17/2015 03:09
Bromodichloromethane	ND	25	50	12/17/2015 03:09
Bromoform	ND	25	50	12/17/2015 03:09
Bromomethane	ND	25	50	12/17/2015 03:09
2-Butanone (MEK)	ND	100	50	12/17/2015 03:09
t-Butyl alcohol (TBA)	ND	100	50	12/17/2015 03:09
n-Butyl benzene	ND	25	50	12/17/2015 03:09
sec-Butyl benzene	ND	25	50	12/17/2015 03:09
tert-Butyl benzene	ND	25	50	12/17/2015 03:09
Carbon Disulfide	ND	25	50	12/17/2015 03:09
Carbon Tetrachloride	ND	25	50	12/17/2015 03:09
Chlorobenzene	ND	25	50	12/17/2015 03:09
Chloroethane	ND	25	50	12/17/2015 03:09
Chloroform	ND	25	50	12/17/2015 03:09
Chloromethane	ND	25	50	12/17/2015 03:09
2-Chlorotoluene	ND	25	50	12/17/2015 03:09
4-Chlorotoluene	ND	25	50	12/17/2015 03:09
Dibromochloromethane	ND	25	50	12/17/2015 03:09
1,2-Dibromo-3-chloropropane	ND	10	50	12/17/2015 03:09
1,2-Dibromoethane (EDB)	ND	25	50	12/17/2015 03:09
Dibromomethane	ND	25	50	12/17/2015 03:09
1,2-Dichlorobenzene	ND	25	50	12/17/2015 03:09
1,3-Dichlorobenzene	ND	25	50	12/17/2015 03:09
1,4-Dichlorobenzene	ND	25	50	12/17/2015 03:09
Dichlorodifluoromethane	ND	25	50	12/17/2015 03:09
1,1-Dichloroethane	ND	25	50	12/17/2015 03:09
1,2-Dichloroethane (1,2-DCA)	ND	25	50	12/17/2015 03:09
1,1-Dichloroethene	ND	25	50	12/17/2015 03:09
cis-1,2-Dichloroethene	ND	25	50	12/17/2015 03:09
trans-1,2-Dichloroethene	ND	25	50	12/17/2015 03:09
1,2-Dichloropropane	ND	25	50	12/17/2015 03:09
1,3-Dichloropropane	ND	25	50	12/17/2015 03:09
2,2-Dichloropropane	ND	25	50	12/17/2015 03:09

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-5	1512545-026B	Water	12/11/2015	GC28	114237
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	25	50	12/17/2015 03:09	
cis-1,3-Dichloropropene	ND	25	50	12/17/2015 03:09	
trans-1,3-Dichloropropene	ND	25	50	12/17/2015 03:09	
Diisopropyl ether (DIPE)	ND	25	50	12/17/2015 03:09	
Ethylbenzene	140	25	50	12/17/2015 03:09	
Ethyl tert-butyl ether (ETBE)	ND	25	50	12/17/2015 03:09	
Freon 113	ND	25	50	12/17/2015 03:09	
Hexachlorobutadiene	ND	25	50	12/17/2015 03:09	
Hexachloroethane	ND	25	50	12/17/2015 03:09	
2-Hexanone	ND	25	50	12/17/2015 03:09	
Isopropylbenzene	62	25	50	12/17/2015 03:09	
4-Isopropyl toluene	ND	25	50	12/17/2015 03:09	
Methyl-t-butyl ether (MTBE)	ND	25	50	12/17/2015 03:09	
Methylene chloride	ND	25	50	12/17/2015 03:09	
4-Methyl-2-pentanone (MIBK)	ND	25	50	12/17/2015 03:09	
Naphthalene	220	25	50	12/17/2015 03:09	
n-Propyl benzene	100	25	50	12/17/2015 03:09	
Styrene	ND	25	50	12/17/2015 03:09	
1,1,1,2-Tetrachloroethane	ND	25	50	12/17/2015 03:09	
1,1,2,2-Tetrachloroethane	ND	25	50	12/17/2015 03:09	
Tetrachloroethene	ND	25	50	12/17/2015 03:09	
Toluene	67	25	50	12/17/2015 03:09	
1,2,3-Trichlorobenzene	ND	25	50	12/17/2015 03:09	
1,2,4-Trichlorobenzene	ND	25	50	12/17/2015 03:09	
1,1,1-Trichloroethane	ND	25	50	12/17/2015 03:09	
1,1,2-Trichloroethane	ND	25	50	12/17/2015 03:09	
Trichloroethene	ND	25	50	12/17/2015 03:09	
Trichlorofluoromethane	ND	25	50	12/17/2015 03:09	
1,2,3-Trichloropropane	ND	25	50	12/17/2015 03:09	
1,2,4-Trimethylbenzene	45	25	50	12/17/2015 03:09	
1,3,5-Trimethylbenzene	ND	25	50	12/17/2015 03:09	
Vinyl Chloride	33	25	50	12/17/2015 03:09	
Xylenes, Total	89	25	50	12/17/2015 03:09	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/17/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-5	1512545-026B	Water	12/11/2015	GC28	114237

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	112	70-130		12/17/2015 03:09
Toluene-d8	112	70-130		12/17/2015 03:09
4-BFB	103	70-130		12/17/2015 03:09

Analyst(s): KF



Analytical Report

Client: Geosolve, Inc. **WorkOrder:** 1512545
Date Received: 12/11/15 18:30 **Extraction Method:** SW5030B
Date Prepared: 12/11/15 **Analytical Method:** SW8021B/8015Bm
Project: 2015-29; Webster- Lemar **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-10	1512545-006A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/14/2015 22:32
MTBE	ND	0.050	1	12/14/2015 22:32
Benzene	ND	0.0050	1	12/14/2015 22:32
Toluene	ND	0.0050	1	12/14/2015 22:32
Ethylbenzene	ND	0.0050	1	12/14/2015 22:32
Xylenes	ND	0.015	1	12/14/2015 22:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	118	70-130		12/14/2015 22:32

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-20	1512545-008A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/16/2015 15:46
MTBE	ND	0.050	1	12/16/2015 15:46
Benzene	ND	0.0050	1	12/16/2015 15:46
Toluene	ND	0.0050	1	12/16/2015 15:46
Ethylbenzene	ND	0.0050	1	12/16/2015 15:46
Xylenes	ND	0.015	1	12/16/2015 15:46
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	99	70-130		12/16/2015 15:46

Analyst(s): IA



Analytical Report

Client: Geosolve, Inc. **WorkOrder:** 1512545
Date Received: 12/11/15 18:30 **Extraction Method:** SW5030B
Date Prepared: 12/11/15 **Analytical Method:** SW8021B/8015Bm
Project: 2015-29; Webster- Lemar **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-25	1512545-009A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1.3	1.0	1	12/16/2015 18:17
MTBE	ND	0.050	1	12/16/2015 18:17
Benzene	0.074	0.0050	1	12/16/2015 18:17
Toluene	0.0072	0.0050	1	12/16/2015 18:17
Ethylbenzene	0.069	0.0050	1	12/16/2015 18:17
Xylenes	0.020	0.015	1	12/16/2015 18:17

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	101	70-130	12/16/2015 18:17

Analyst(s): IA Analytical Comments: d1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-10	1512545-015A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/14/2015 23:02
MTBE	ND	0.050	1	12/14/2015 23:02
Benzene	ND	0.0050	1	12/14/2015 23:02
Toluene	ND	0.0050	1	12/14/2015 23:02
Ethylbenzene	ND	0.0050	1	12/14/2015 23:02
Xylenes	ND	0.015	1	12/14/2015 23:02

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	116	70-130	12/14/2015 23:02

Analyst(s): IA



Analytical Report

Client: Geosolve, Inc.	WorkOrder: 1512545
Date Received: 12/11/15 18:30	Extraction Method: SW5030B
Date Prepared: 12/11/15	Analytical Method: SW8021B/8015Bm
Project: 2015-29; Webster- Lemar	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-20	1512545-017A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/14/2015 23:32
MTBE	ND	0.050	1	12/14/2015 23:32
Benzene	ND	0.0050	1	12/14/2015 23:32
Toluene	ND	0.0050	1	12/14/2015 23:32
Ethylbenzene	ND	0.0050	1	12/14/2015 23:32
Xylenes	ND	0.015	1	12/14/2015 23:32
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	115	70-130		12/14/2015 23:32

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-25	1512545-018A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/16/2015 18:47
MTBE	ND	0.050	1	12/16/2015 18:47
Benzene	0.011	0.0050	1	12/16/2015 18:47
Toluene	ND	0.0050	1	12/16/2015 18:47
Ethylbenzene	ND	0.0050	1	12/16/2015 18:47
Xylenes	ND	0.015	1	12/16/2015 18:47
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	102	70-130		12/16/2015 18:47

Analyst(s): IA



Analytical Report

Client: Geosolve, Inc. **WorkOrder:** 1512545
Date Received: 12/11/15 18:30 **Extraction Method:** SW5030B
Date Prepared: 12/11/15 **Analytical Method:** SW8021B/8015Bm
Project: 2015-29; Webster- Lemar **Unit:** mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-10	1512545-024A	Soil	12/11/2015	GC19	114120

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/15/2015 00:02
MTBE	ND	0.050	1	12/15/2015 00:02
Benzene	ND	0.0050	1	12/15/2015 00:02
Toluene	ND	0.0050	1	12/15/2015 00:02
Ethylbenzene	ND	0.0050	1	12/15/2015 00:02
Xylenes	ND	0.015	1	12/15/2015 00:02
Surrogates	REC (%)	Limits		
2-Fluorotoluene	119	70-130		12/15/2015 00:02

Analyst(s): IA



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/16/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-4	1512545-025A	Water	12/11/2015	GC3	114351

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	8100	500	10	12/16/2015 18:24
MTBE	ND	500	10	12/16/2015 18:24
Benzene	1000	5.0	10	12/16/2015 18:24
Toluene	77	5.0	10	12/16/2015 18:24
Ethylbenzene	580	5.0	10	12/16/2015 18:24
Xylenes	200	15	10	12/16/2015 18:24

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	112	70-130	12/16/2015 18:24

Analyst(s): IA **Analytical Comments:** d1,d17

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-5	1512545-026A	Water	12/11/2015	GC3	114351

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	6800	500	10	12/16/2015 21:49
MTBE	ND	300	10	12/16/2015 21:49
Benzene	620	5.0	10	12/16/2015 21:49
Toluene	73	5.0	10	12/16/2015 21:49
Ethylbenzene	140	5.0	10	12/16/2015 21:49
Xylenes	140	15	10	12/16/2015 21:49

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
aaa-TFT	226	S	70-130	12/16/2015 21:49

Analyst(s): IA **Analytical Comments:** d1,d17,c4



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15-12/16/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1	1512545-025C	Water	12/11/2015	ICP-MS3	114078

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	430	10	20	12/15/2015 12:20

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	107	70-130	12/15/2015 12:20

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-5	1512545-026C	Water	12/11/2015	ICP-MS2	114319

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	550	10	20	12/17/2015 20:21

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	114	70-130	12/17/2015 20:21

Analyst(s): DB



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-1	1512545-001A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/17/2015 21:50

Surrogates	REC (%)	Limits
Terbium	106	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-2	1512545-002A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:00

Surrogates	REC (%)	Limits
Terbium	106	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-3	1512545-003A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:03

Surrogates	REC (%)	Limits
Terbium	88	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-4	1512545-004A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:05

Surrogates	REC (%)	Limits
Terbium	90	70-130

Analyst(s): BBO

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B4-5	1512545-005A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:07

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	81	70-130	12/18/2015 00:07

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-1	1512545-010A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:10

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	115	70-130	12/18/2015 00:10

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-2	1512545-011A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:17

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	91	70-130	12/18/2015 00:17

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-3	1512545-012A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:20

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	121	70-130	12/18/2015 00:20

Analyst(s): BBO

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-4	1512545-013A	Soil	12/11/2015	ICP-JY	114127

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	ND	5.0	1	12/18/2015 00:22

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Terbium	108	70-130		12/18/2015 00:22

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-5	1512545-014A	Soil	12/11/2015	ICP-JY	114127

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	ND	5.0	1	12/18/2015 00:24

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Terbium	102	70-130		12/18/2015 00:24

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-10	1512545-015A	Soil	12/11/2015	ICP-JY	114127

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	ND	5.0	1	12/18/2015 00:27

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Terbium	99	70-130		12/18/2015 00:27

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-20	1512545-017A	Soil	12/11/2015	ICP-JY	114127

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	ND	5.0	1	12/18/2015 00:29

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Terbium	128	70-130		12/18/2015 00:29

Analyst(s): BBO

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B5-25	1512545-018A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:32
Surrogates	REC (%)	Limits		
Terbium	84	70-130		12/18/2015 00:32

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-1	1512545-019A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	6.2	5.0	1	12/18/2015 00:34
Surrogates	REC (%)	Limits		
Terbium	104	70-130		12/18/2015 00:34

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-2	1512545-020A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	6.2	5.0	1	12/18/2015 00:37
Surrogates	REC (%)	Limits		
Terbium	108	70-130		12/18/2015 00:37

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-3	1512545-021A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	6.5	5.0	1	12/18/2015 00:39
Surrogates	REC (%)	Limits		
Terbium	100	70-130		12/18/2015 00:39

Analyst(s): BBO

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/11/15 18:30
Date Prepared: 12/11/15
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-4	1512545-022A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	5.1	5.0	1	12/18/2015 00:46

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	118	70-130	12/18/2015 00:46

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-5	1512545-023A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	6.7	5.0	1	12/18/2015 15:16

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	12/18/2015 15:16

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-10	1512545-024A	Soil	12/11/2015	ICP-JY	114127

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/18/2015 00:51

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	103	70-130	12/18/2015 00:51

Analyst(s): BBO



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/11/15
Date Analyzed: 12/11/15
Instrument: GC16
Matrix: Soil
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114095
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114095
 1512529-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0513	0.0050	0.050	-	103	53-116
Benzene	ND	0.0580	0.0050	0.050	-	116	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.227	0.050	0.20	-	113	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0532	0.0050	0.050	-	106	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0543	0.0040	0.050	-	109	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0557	0.0040	0.050	-	111	58-135
1,1-Dichloroethene	ND	0.0548	0.0050	0.050	-	109	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/11/15
Date Analyzed: 12/11/15
Instrument: GC16
Matrix: Soil
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114095
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114095
 1512529-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0576	0.0050	0.050	-	115	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0544	0.0050	0.050	-	109	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0535	0.0050	0.050	-	107	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0594	0.0050	0.050	-	119	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0547	0.0050	0.050	-	109	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client:	Geosolve, Inc.	WorkOrder:	1512545
Date Prepared:	12/11/15	BatchID:	114095
Date Analyzed:	12/11/15	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	2015-29; Webster- Lemar	Sample ID:	MB/LCS-114095 1512529-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.127	0.129		0.12	101	103	70-130
Toluene-d8	0.132	0.127		0.12	105	101	70-130
4-BFB	0.0129	0.0129		0.012	103	103	70-130
Benzene-d6	0.0951	0.0975		0.10	95	97	60-140
Ethylbenzene-d10	0.101	0.104		0.10	101	104	60-140
1,2-DCB-d4	0.0745	0.0832		0.10	75	83	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0478	0.0487	0.050	ND	96	97	70-130	1.85	20
Benzene	0.0460	0.0489	0.050	ND	92	98	70-130	6.02	20
t-Butyl alcohol (TBA)	0.187	0.182	0.20	ND	93	91	70-130	2.93	20
Chlorobenzene	0.0417	0.0456	0.050	ND	83	91	70-130	8.95	20
1,2-Dibromoethane (EDB)	0.0423	0.0477	0.050	ND	85	95	70-130	11.9	20
1,2-Dichloroethane (1,2-DCA)	0.0464	0.0460	0.050	ND	93	92	70-130	0.942	20
1,1-Dichloroethene	0.0420	0.0461	0.050	ND	84	92	70-130	9.30	20
Diisopropyl ether (DIPE)	0.0469	0.0450	0.050	ND	94	90	70-130	3.99	20
Ethyl tert-butyl ether (ETBE)	0.0489	0.0473	0.050	ND	98	95	70-130	3.19	20
Methyl-t-butyl ether (MTBE)	0.0485	0.0489	0.050	ND	97	98	70-130	0.950	20
Toluene	0.0407	0.0448	0.050	ND	81	90	70-130	9.50	20
Trichloroethene	0.0449	0.0478	0.050	ND	90	96	70-130	6.28	20

Surrogate Recovery									
Dibromofluoromethane	0.145	0.144	0.12		116	115	70-130	0.750	20
Toluene-d8	0.142	0.146	0.12		114	117	70-130	3.13	20
4-BFB	0.0120	0.0137	0.012		96	109	70-130	12.6	20
Benzene-d6	0.0998	0.102	0.10		100	102	60-140	1.94	20
Ethylbenzene-d10	0.0941	0.0959	0.10		94	96	60-140	1.94	20
1,2-DCB-d4	0.0893	0.0982	0.10		89	98	60-140	9.48	20

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/11/15
Date Analyzed: 12/15/15
Instrument: GC16
Matrix: Soil
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114128
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114128
 1512545-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0518	0.0050	0.050	-	104	53-116
Benzene	ND	0.0539	0.0050	0.050	-	108	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.240	0.050	0.20	-	120	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0507	0.0050	0.050	-	101	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0509	0.0040	0.050	-	102	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0560	0.0040	0.050	-	112	58-135
1,1-Dichloroethene	ND	0.0550	0.0050	0.050	-	110	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/11/15
Date Analyzed: 12/15/15
Instrument: GC16
Matrix: Soil
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114128
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114128
 1512545-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0552	0.0050	0.050	-	110	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0546	0.0050	0.050	-	109	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0529	0.0050	0.050	-	106	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0560	0.0050	0.050	-	112	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0570	0.0050	0.050	-	114	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/11/15
Date Analyzed: 12/15/15
Instrument: GC16
Matrix: Soil
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114128
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114128
 1512545-024AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.129	0.130		0.12	103	104	70-130
Toluene-d8	0.124	0.125		0.12	99	100	70-130
4-BFB	0.0131	0.0133		0.012	105	107	70-130
Benzene-d6	0.0947	0.0921		0.10	95	92	60-140
Ethylbenzene-d10	0.100	0.0965		0.10	100	96	60-140
1,2-DCB-d4	0.0731	0.0760		0.10	73	76	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0535	0.0527	0.050	ND	107	105	70-130	1.46	20
Benzene	0.0549	0.0536	0.050	ND	110	107	70-130	2.38	20
t-Butyl alcohol (TBA)	0.200	0.198	0.20	ND	100	99	70-130	0.701	20
Chlorobenzene	0.0502	0.0485	0.050	ND	100	97	70-130	3.32	20
1,2-Dibromoethane (EDB)	0.0505	0.0503	0.050	ND	101	101	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	0.0540	0.0528	0.050	ND	108	106	70-130	2.40	20
1,1-Dichloroethene	0.0528	0.0510	0.050	ND	106	102	70-130	3.52	20
Diisopropyl ether (DIPE)	0.0547	0.0539	0.050	ND	109	108	70-130	1.54	20
Ethyl tert-butyl ether (ETBE)	0.0558	0.0549	0.050	ND	112	110	70-130	1.73	20
Methyl-t-butyl ether (MTBE)	0.0542	0.0534	0.050	ND	108	107	70-130	1.37	20
Toluene	0.0482	0.0461	0.050	ND	96	92	70-130	4.46	20
Trichloroethene	0.0571	0.0552	0.050	ND	114	110	70-130	3.46	20
Surrogate Recovery									
Dibromofluoromethane	0.148	0.147	0.12		118	117	70-130	0.545	20
Toluene-d8	0.144	0.143	0.12		115	114	70-130	0.921	20
4-BFB	0.0116	0.0114	0.012		93	91	70-130	1.58	20
Benzene-d6	0.118	0.115	0.10		118	115	60-140	3.33	20
Ethylbenzene-d10	0.111	0.107	0.10		111	107	60-140	4.09	20
1,2-DCB-d4	0.108	0.106	0.10		108	106	60-140	2.33	20



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	10.3	0.50	10	-	103	54-140
Benzene	ND	9.86	0.50	10	-	99	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	35.1	2.0	40	-	88	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.54	0.50	10	-	95	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.39	0.50	10	-	94	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.72	0.50	10	-	97	66-125
1,1-Dichloroethene	ND	9.91	0.50	10	-	99	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.79	0.50	10	-	98	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	10.1	0.50	10	-	101	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.79	0.50	10	-	98	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	9.52	0.50	10	-	95	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.4	0.50	10	-	104	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	28.0	27.7		25	112	111	70-130
Toluene-d8	27.5	28.0		25	110	112	70-130
4-BFB	2.50	2.53		2.5	100	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	12.2	12.7	10	ND	122	127	69-139	3.99	20
Benzene	10.8	11.3	10	ND	108	113	69-141	4.72	20
t-Butyl alcohol (TBA)	46.6	48.2	40	ND	114	118	41-152	3.41	20
Chlorobenzene	10.2	10.8	10	ND	102	107	77-120	5.30	20
1,2-Dibromoethane (EDB)	11.0	11.5	10	ND	110	115	76-135	4.25	20
1,2-Dichloroethane (1,2-DCA)	11.4	11.8	10	ND	114	118	73-139	4.26	20
1,1-Dichloroethene	10.9	11.3	10	ND	109	113	59-140	3.94	20
Diisopropyl ether (DIPE)	10.8	11.3	10	ND	108	113	72-140	4.30	20
Ethyl tert-butyl ether (ETBE)	11.5	12.1	10	ND	115	121	71-140	5.19	20
Methyl-t-butyl ether (MTBE)	11.8	12.2	10	ND	119	122	73-139	3.04	20
Toluene	10.1	10.7	10	ND	101	107	71-128	5.43	20
Trichloroethene	11.0	11.6	10	ND	110	116	64-132	5.07	20
Surrogate Recovery									
Dibromofluoromethane	28.9	28.9	25		115	115	70-130	0	20
Toluene-d8	27.2	27.4	25		109	109	70-130	0	20
4-BFB	2.71	2.72	2.5		108	109	70-130	0.448	20

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Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/16/15
Date Analyzed: 12/16/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114307
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114307
 1512658-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	11.8	0.50	10	-	118	54-140
Benzene	ND	10.3	0.50	10	-	103	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	47.2	2.0	40	-	118	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	10.0	0.50	10	-	100	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	10.5	0.50	10	-	105	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	10.6	0.50	10	-	106	66-125
1,1-Dichloroethene	ND	10.3	0.50	10	-	103	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/16/15
Date Analyzed: 12/16/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114307
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114307
 1512658-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	10.6	0.50	10	-	107	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	11.3	0.50	10	-	113	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	11.3	0.50	10	-	113	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	10.1	0.50	10	-	101	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.9	0.50	10	-	109	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client:	Geosolve, Inc.	WorkOrder:	1512545
Date Prepared:	12/16/15	BatchID:	114307
Date Analyzed:	12/16/15	Extraction Method:	SW5030B
Instrument:	GC28	Analytical Method:	SW8260B
Matrix:	Water	Unit:	µg/L
Project:	2015-29; Webster- Lemar	Sample ID:	MB/LCS-114307 1512658-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	28.5	28.5		25	114	114	70-130
Toluene-d8	26.9	27.5		25	108	110	70-130
4-BFB	2.43	2.56		2.5	97	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	11.6	11.2	10	ND	116	112	69-139	3.60	20
Benzene	10.7	10.1	10	ND	107	101	69-141	5.45	20
t-Butyl alcohol (TBA)	44.2	44.0	40	ND	110	110	41-152	0	20
Chlorobenzene	10.5	9.84	10	ND	105	98	77-120	6.18	20
1,2-Dibromoethane (EDB)	10.9	10.3	10	ND	109	103	76-135	5.09	20
1,2-Dichloroethane (1,2-DCA)	10.9	10.4	10	ND	109	104	73-139	4.55	20
1,1-Dichloroethene	10.7	10.2	10	ND	107	102	59-140	4.80	20
Diisopropyl ether (DIPE)	10.6	10.3	10	ND	106	103	72-140	3.61	20
Ethyl tert-butyl ether (ETBE)	11.3	10.9	10	ND	113	109	71-140	3.94	20
Methyl-t-butyl ether (MTBE)	11.2	10.9	10	ND	112	109	73-139	2.74	20
Toluene	10.4	9.75	10	ND	104	97	71-128	6.13	20
Trichloroethene	11.1	10.4	10	ND	111	104	64-132	6.08	20
Surrogate Recovery									
Dibromofluoromethane	28.4	28.5	25		114	114	70-130	0	20
Toluene-d8	27.5	27.5	25		110	110	70-130	0	20
4-BFB	2.56	2.57	2.5		102	103	70-130	0.386	20



Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512545
Date Prepared: 12/11/15	BatchID: 114120
Date Analyzed: 12/12/15	Extraction Method: SW5030B
Instrument: GC7	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: 2015-29; Webster- Lemar	Sample ID: MB/LCS-114120 1512531-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.538	0.40	0.60	-	90	70-130
MTBE	ND	0.106	0.050	0.10	-	106	70-130
Benzene	ND	0.109	0.0050	0.10	-	109	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.108	0.0050	0.10	-	108	70-130
Xylenes	ND	0.341	0.015	0.30	-	114	70-130

Surrogate Recovery

2-Fluorotoluene	0.119	0.128		0.10	119	129	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	ND	NR	NR	NR	-	NR	NR
MTBE	NR	NR	ND	NR	NR	NR	-	NR	NR
Benzene	NR	NR	ND	NR	NR	NR	-	NR	NR
Toluene	NR	NR	ND	NR	NR	NR	-	NR	NR
Ethylbenzene	NR	NR	ND	NR	NR	NR	-	NR	NR
Xylenes	NR	NR	ND	NR	NR	NR	-	NR	NR

Surrogate Recovery

2-Fluorotoluene	NR	NR		NR	NR	-	NR
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Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512545
Date Prepared: 12/16/15	BatchID: 114351
Date Analyzed: 12/16/15	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: 2015-29; Webster- Lemar	Sample ID: MB/LCS-114351 1512493-002BMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.9	40	60	-	100	70-130
MTBE	ND	8.77	5.0	10	-	88	70-130
Benzene	ND	10.3	0.50	10	-	103	70-130
Toluene	ND	10.5	0.50	10	-	105	70-130
Ethylbenzene	ND	10.6	0.50	10	-	106	70-130
Xylenes	ND	32.3	1.5	30	-	108	70-130

Surrogate Recovery

aaa-TFT	8.17	8.95		10	82	89	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		13000	NR	NR	-	NR	
MTBE	NR	NR		2800	NR	NR	-	NR	
Benzene	NR	NR		12000	NR	NR	-	NR	
Toluene	NR	NR		190	NR	NR	-	NR	
Ethylbenzene	NR	NR		1100	NR	NR	-	NR	
Xylenes	NR	NR		200	NR	NR	-	NR	

Surrogate Recovery

aaa-TFT	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/10/15
Date Analyzed: 12/14/15
Instrument: ICP-MS2
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114078
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS-114078
 1512505-002AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	53.4	0.50	50	-	107	85-115
Surrogate Recovery							
Terbium	752	751		750	100	100	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	53.7	53.6	50	ND	106	106	70-130	0	20
Surrogate Recovery									
Terbium	786	790	750		105	105	70-130	0	20



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/16/15
Date Analyzed: 12/17/15
Instrument: ICP-MS1
Matrix: Water
Project: 2015-29; Webster- Lemar

WorkOrder: 1512545
BatchID: 114319
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB-114319

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Terbium	793	-		750	106	-	-



Quality Control Report

Client:	Geosolve, Inc.	WorkOrder:	1512545
Date Prepared:	12/11/15	BatchID:	114127
Date Analyzed:	12/17/15	Extraction Method:	SW3050B
Instrument:	ICP-JY	Analytical Method:	SW6010B
Matrix:	Soil	Unit:	mg/Kg
Project:	2015-29; Webster- Lemar	Sample ID:	MB/LCS-114127 1512545-001AMS/MSD

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	52.9	5.0	50	-	106	75-125
Surrogate Recovery							
Terbium	460	510		500	92	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	50.3	55.8	50	ND	91	102	75-125	10.5	25
Surrogate Recovery									
Terbium	447	414	500		89	83	70-130	7.66	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512545

ClientCode: GSP

WaterTrax WriteOn EDF Excel EquiS Email HardCopy ThirdParty J-flag

Report to:

Rob Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
(925) 963-1198 FAX:

Email: rcampbell@geosolve-inc.com
cc/3rd Party:
PO: 2015-29
ProjectNo: 2015-29; Webster- Lemar

Bill to:

Lisa Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
lcampbell@geosolve-inc.com

Requested TAT: 5 days;

Date Received: 12/11/2015

Date Logged: 12/11/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1512545-001	B4-1	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-002	B4-2	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-003	B4-3	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-004	B4-4	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-005	B4-5	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-006	B4-10	Soil	12/11/2015	<input type="checkbox"/>	A		A										
1512545-008	B4-20	Soil	12/11/2015	<input type="checkbox"/>	A		A										
1512545-009	B4-25	Soil	12/11/2015	<input type="checkbox"/>	A		A										
1512545-010	B5-1	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-011	B5-2	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-012	B5-3	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-013	B5-4	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-014	B5-5	Soil	12/11/2015	<input type="checkbox"/>						A							
1512545-015	B5-10	Soil	12/11/2015	<input type="checkbox"/>	A		A			A							
1512545-017	B5-20	Soil	12/11/2015	<input type="checkbox"/>	A		A			A							

Test Legend:

1	8260B_S
5	PB_S
9	

2	8260B_W
6	PBMS_TTLC_W
10	

3	G-MBTEX_S
7	
11	

4	G-MBTEX_W
8	
12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512545

ClientCode: GSP

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Report to:

Rob Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
(925) 963-1198 FAX:

Email: rcampbell@geosolve-inc.com
cc/3rd Party:
PO: 2015-29
ProjectNo: 2015-29; Webster- Lemar

Bill to:

Lisa Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
lcampbell@geosolve-inc.com

Requested TAT: 5 days;

Date Received: 12/11/2015

Date Logged: 12/11/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1512545-018	B5-25	Soil	12/11/2015	<input type="checkbox"/>	A		A		A							
1512545-019	B6-1	Soil	12/11/2015	<input type="checkbox"/>					A							
1512545-020	B6-2	Soil	12/11/2015	<input type="checkbox"/>					A							
1512545-021	B6-3	Soil	12/11/2015	<input type="checkbox"/>					A							
1512545-022	B6-4	Soil	12/11/2015	<input type="checkbox"/>					A							
1512545-023	B6-5	Soil	12/11/2015	<input type="checkbox"/>					A							
1512545-024	B6-10	Soil	12/11/2015	<input type="checkbox"/>	A		A		A							
1512545-025	B-1	Water	12/11/2015	<input type="checkbox"/>							C					
1512545-025	B-4	Water	12/11/2015	<input type="checkbox"/>		B		A								
1512545-026	B-5	Water	12/11/2015	<input type="checkbox"/>		B		A		C						

Test Legend:

1	8260B_S
5	PB_S
9	

2	8260B_W
6	PBMS_TTLC_W
10	

3	G-MBTEX_S
7	
11	

4	G-MBTEX_W
8	
12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: GEOSOLVE, INC.
Project: 2015-29; Webster- Lemar
Comments:

QC Level: LEVEL 2
Client Contact: Rob Campbell
Contact's Email: rcampbell@geosolve-inc.com

Work Order: 1512545
Date Logged: 12/11/2015

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512545-001A	B4-1	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-002A	B4-2	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-003A	B4-3	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-004A	B4-4	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-005A	B4-5	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-006A	B4-10	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-007A	B4-15	Soil		1	Acetate Liner	<input type="checkbox"/>	12/11/2015			<input checked="" type="checkbox"/>	
1512545-008A	B4-20	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-009A	B4-25	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-010A	B5-1	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-011A	B5-2	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-012A	B5-3	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-013A	B5-4	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: GEOSOLVE, INC.
Project: 2015-29; Webster- Lemar
Comments:

QC Level: LEVEL 2
Client Contact: Rob Campbell
Contact's Email: rcampbell@geosolve-inc.com

Work Order: 1512545
Date Logged: 12/11/2015

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512545-014A	B5-5	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-015A	B5-10	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-016A	B5-15	Soil		1	Acetate Liner	<input type="checkbox"/>	12/11/2015			<input checked="" type="checkbox"/>	
1512545-017A	B5-20	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-018A	B5-25	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-019A	B6-1	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-020A	B6-2	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-021A	B6-3	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-022A	B6-4	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
1512545-023A	B6-5	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
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WORK ORDER SUMMARY

Client Name: GEOSOLVE, INC.
Project: 2015-29; Webster- Lemar
Comments:

QC Level: LEVEL 2
Client Contact: Rob Campbell
Contact's Email: rcampbell@geosolve-inc.com

Work Order: 1512545
Date Logged: 12/11/2015

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512545-024A	B6-10	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/11/2015	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1512545-025A	B-4	Water	SW8021B/8015Bm (G/MBTEX)	3	VOA w/ HCl	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	
1512545-025B	B-4	Water	SW8260B (VOCs)	3	VOA w/ HCl	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	
1512545-025C	B-1	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	
1512545-026A	B-5	Water	SW8021B/8015Bm (G/MBTEX)	3	VOA w/ HCl	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	
1512545-026B	B-5	Water	SW8260B (VOCs)	3	VOA w/ HCl	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	
1512545-026C	B-5	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3	<input type="checkbox"/>	12/11/2015	5 days	Trace	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
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McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY 10 DAY

GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Rob Campbell Bill To: GeoSolve, Inc
Company: GeoSolve, Inc.
1807 Santa Rita Rd #0165 Pleasanton CA
Tele: (925) 963-1198 E-Mail: rcampbell@geosolve.com
Project #: 2015-29 Project Name: Webster - Lemay
Project Location: 17501 Webster St Purchase Order# 2015-29
Sampler Signature: Rob Campbell

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5320 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead	Hold
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																	
B4-1		12-11-15		1					X																					X	
B4-2				1					X																					X	
B4-3				1					X																					X	
B4-4				1					X																					X	
B4-5				1					X																					X	
B4-10				1					X						X								X							X	
B4-15				1					X						X								X							X	
B4-20				1					X						X								X							X	
B4-25				1					X						X								X							X	
B5-1				1					X						X								X							X	
B5-2				1					X						X								X							X	

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>12-11-15</u>	Time: <u>1415</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date: <u>12/11</u>	Time: <u>1620</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:

ICE/° _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION pH < 2 _____

1 of 3



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY 10 DAY

Geo Tracker EDF PDF EDD Write On (DW) EQuIS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

1512545

Report To: Rob Campbell Bill To: Geosolve, Inc.
 Company: Geosolve, Inc.
1807 Santa Rita Rd # D165 Pleasanton CA
 Tele: (925) 963-1198 E-Mail: rcampbell@geosolve.com
 Project #: 2015-29 Project Name: Webster-Kennar
 Project Location: 1750 Webster St Purchase Order# 2015-29
 Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX										METHOD PRESERVED		Other <u>ICE</u>	BTEX & TPH as Gas (8021/8015) M/BE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Total Lead	Hold
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																				
B5-3		12-11-15		1						X						X																X		
B5-4				1						X						X																X		
B5-5				1						X						X																X		
B5-10				1						X						X																X		
B5-15				1						X						X																X		
B5-20				1						X						X																X		
B5-25				1						X						X																X		
B6-1				1						X						X																X		
B6-2				1						X						X																X		
B6-3				1						X						X																X		
B6-4				1						X						X																X		

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>12-11-15</u>	Time: <u>1415</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date: <u>12/11</u>	Time: <u>1620</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/° _____ COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER HAZARDOUS:
 PRESERVATION pH<2 _____

2 of 3



McC Campbell Analytical, Inc.

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www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
GeoTracker EDF PDF EDD Write On (DW) EQUIS 10 DAY
Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Rob Campbell Bill To: Geosolve, Inc.
Company: Geosolve, Inc
1807 Santa Rita Rd #0165 Pleasanton CA
Tele: (925) 963-1198 E-Mail: rcampbell@geosolve-inc.com
Project #: 2015-29 Project Name: Webster - Lennar
Project Location: 1750 Webster St Purchase Order# 2015-29
Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTEX & TPH as Gas (8021/8015) MTBE TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 62.4 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TOTAL Lead	Hold	
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																	Other
B6-5		12-11-15		1						X					X														X		
B6-10				1						X					X														X		
B6-15				1						X					X													X			
B6-20				1						X					X													X			
B6-25				1						X					X													X			
B-4				7	X										X													X			
B-5				7	X										X													X			
B-6				7	X										X													X			

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <u>[Signature]</u>	Date: <u>12-11-15</u>	Time: <u>1415</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date: <u>12/11</u>	Time: <u>1620</u>	Received By: <u>[Signature]</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

ICE/I² _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS _____ O&G _____ METALS _____ OTHER _____ HAZARDOUS: _____
 PRESERVATION _____ pH < 2 _____

COMMENTS: Rig broke down
these samples will be collected on 12-14-15

3 of 3



Sample Receipt Checklist

Client Name:	Geosolve, Inc.	Date and Time Received:	12/11/2015 16:20
Project Name:	2015-29; Webster- Lemar	Date Logged:	12/11/2015
WorkOrder №:	1512545 Matrix: <u>Soil/Water</u>	Received by:	Briana Cutino
Carrier:	<u>Benjamin Yslas (MAI Courier)</u>	Logged by:	Briana Cutino

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample/Temp Blank temperature	Temp: 2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

* NOTE: If the "No" box is checked, see comments below.

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1512610

Report Created for: Geosolve, Inc.

1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566

Project Contact: Rob Campbell

Project P.O.: 2015-29

Project Name: 2015-29; Webster-Lennar

Project Received: 12/14/2015

Analytical Report reviewed & approved for release on 12/17/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Geosolve, Inc.
Project: 2015-29; Webster-Lennar
WorkOrder: 1512610

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Geosolve, Inc.
Project: 2015-29; Webster-Lennar
WorkOrder: 1512610

Analytical Qualifiers

S spike recovery outside accepted recovery limits
b1 aqueous sample that contains greater than ~1 vol. % sediment
c4 surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c7 Surrogate value diluted out of range
d1 weakly modified or unmodified gasoline is significant
d17 Reporting limit for MTBE raised due to co-elution with non-target peaks.



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-20	1512610-002A	Soil	12/14/2015	GC16	114203
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	12/16/2015 01:28	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	12/16/2015 01:28	
Benzene	ND	0.0050	1	12/16/2015 01:28	
Bromobenzene	ND	0.0050	1	12/16/2015 01:28	
Bromochloromethane	ND	0.0050	1	12/16/2015 01:28	
Bromodichloromethane	ND	0.0050	1	12/16/2015 01:28	
Bromoform	ND	0.0050	1	12/16/2015 01:28	
Bromomethane	ND	0.0050	1	12/16/2015 01:28	
2-Butanone (MEK)	ND	0.020	1	12/16/2015 01:28	
t-Butyl alcohol (TBA)	ND	0.050	1	12/16/2015 01:28	
n-Butyl benzene	ND	0.0050	1	12/16/2015 01:28	
sec-Butyl benzene	ND	0.0050	1	12/16/2015 01:28	
tert-Butyl benzene	ND	0.0050	1	12/16/2015 01:28	
Carbon Disulfide	ND	0.0050	1	12/16/2015 01:28	
Carbon Tetrachloride	ND	0.0050	1	12/16/2015 01:28	
Chlorobenzene	ND	0.0050	1	12/16/2015 01:28	
Chloroethane	ND	0.0050	1	12/16/2015 01:28	
Chloroform	ND	0.0050	1	12/16/2015 01:28	
Chloromethane	ND	0.0050	1	12/16/2015 01:28	
2-Chlorotoluene	ND	0.0050	1	12/16/2015 01:28	
4-Chlorotoluene	ND	0.0050	1	12/16/2015 01:28	
Dibromochloromethane	ND	0.0050	1	12/16/2015 01:28	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	12/16/2015 01:28	
1,2-Dibromoethane (EDB)	ND	0.0040	1	12/16/2015 01:28	
Dibromomethane	ND	0.0050	1	12/16/2015 01:28	
1,2-Dichlorobenzene	ND	0.0050	1	12/16/2015 01:28	
1,3-Dichlorobenzene	ND	0.0050	1	12/16/2015 01:28	
1,4-Dichlorobenzene	ND	0.0050	1	12/16/2015 01:28	
Dichlorodifluoromethane	ND	0.0050	1	12/16/2015 01:28	
1,1-Dichloroethane	ND	0.0050	1	12/16/2015 01:28	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	12/16/2015 01:28	
1,1-Dichloroethene	ND	0.0050	1	12/16/2015 01:28	
cis-1,2-Dichloroethene	ND	0.0050	1	12/16/2015 01:28	
trans-1,2-Dichloroethene	ND	0.0050	1	12/16/2015 01:28	
1,2-Dichloropropane	ND	0.0050	1	12/16/2015 01:28	
1,3-Dichloropropane	ND	0.0050	1	12/16/2015 01:28	
2,2-Dichloropropane	ND	0.0050	1	12/16/2015 01:28	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-20	1512610-002A	Soil	12/14/2015	GC16	114203
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	12/16/2015 01:28	
cis-1,3-Dichloropropene	ND	0.0050	1	12/16/2015 01:28	
trans-1,3-Dichloropropene	ND	0.0050	1	12/16/2015 01:28	
Diisopropyl ether (DIPE)	ND	0.0050	1	12/16/2015 01:28	
Ethylbenzene	ND	0.0050	1	12/16/2015 01:28	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	12/16/2015 01:28	
Freon 113	ND	0.0050	1	12/16/2015 01:28	
Hexachlorobutadiene	ND	0.0050	1	12/16/2015 01:28	
Hexachloroethane	ND	0.0050	1	12/16/2015 01:28	
2-Hexanone	ND	0.0050	1	12/16/2015 01:28	
Isopropylbenzene	ND	0.0050	1	12/16/2015 01:28	
4-Isopropyl toluene	ND	0.0050	1	12/16/2015 01:28	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	12/16/2015 01:28	
Methylene chloride	ND	0.0050	1	12/16/2015 01:28	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	12/16/2015 01:28	
Naphthalene	ND	0.0050	1	12/16/2015 01:28	
n-Propyl benzene	ND	0.0050	1	12/16/2015 01:28	
Styrene	ND	0.0050	1	12/16/2015 01:28	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	12/16/2015 01:28	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	12/16/2015 01:28	
Tetrachloroethene	ND	0.0050	1	12/16/2015 01:28	
Toluene	ND	0.0050	1	12/16/2015 01:28	
1,2,3-Trichlorobenzene	ND	0.0050	1	12/16/2015 01:28	
1,2,4-Trichlorobenzene	ND	0.0050	1	12/16/2015 01:28	
1,1,1-Trichloroethane	ND	0.0050	1	12/16/2015 01:28	
1,1,2-Trichloroethane	ND	0.0050	1	12/16/2015 01:28	
Trichloroethene	ND	0.0050	1	12/16/2015 01:28	
Trichlorofluoromethane	ND	0.0050	1	12/16/2015 01:28	
1,2,3-Trichloropropane	ND	0.0050	1	12/16/2015 01:28	
1,2,4-Trimethylbenzene	ND	0.0050	1	12/16/2015 01:28	
1,3,5-Trimethylbenzene	ND	0.0050	1	12/16/2015 01:28	
Vinyl Chloride	ND	0.0050	1	12/16/2015 01:28	
Xylenes, Total	ND	0.0050	1	12/16/2015 01:28	

(Cont.)



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-20	1512610-002A	Soil	12/14/2015	GC16	114203

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	107	70-130		12/16/2015 01:28
Toluene-d8	99	70-130		12/16/2015 01:28
4-BFB	107	70-130		12/16/2015 01:28
Benzene-d6	78	60-140		12/16/2015 01:28
Ethylbenzene-d10	80	60-140		12/16/2015 01:28
1,2-DCB-d4	64	60-140		12/16/2015 01:28

Analyst(s): KF



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-25	1512610-003A	Soil	12/14/2015	GC18	114203
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	100	1,000	12/16/2015 12:36	
tert-Amyl methyl ether (TAME)	ND	5.0	1,000	12/16/2015 12:36	
Benzene	ND	5.0	1,000	12/16/2015 12:36	
Bromobenzene	ND	5.0	1,000	12/16/2015 12:36	
Bromochloromethane	ND	5.0	1,000	12/16/2015 12:36	
Bromodichloromethane	ND	5.0	1,000	12/16/2015 12:36	
Bromoform	ND	5.0	1,000	12/16/2015 12:36	
Bromomethane	ND	5.0	1,000	12/16/2015 12:36	
2-Butanone (MEK)	ND	20	1,000	12/16/2015 12:36	
t-Butyl alcohol (TBA)	ND	50	1,000	12/16/2015 12:36	
n-Butyl benzene	5.5	5.0	1,000	12/16/2015 12:36	
sec-Butyl benzene	ND	5.0	1,000	12/16/2015 12:36	
tert-Butyl benzene	ND	5.0	1,000	12/16/2015 12:36	
Carbon Disulfide	ND	5.0	1,000	12/16/2015 12:36	
Carbon Tetrachloride	ND	5.0	1,000	12/16/2015 12:36	
Chlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
Chloroethane	ND	5.0	1,000	12/16/2015 12:36	
Chloroform	ND	5.0	1,000	12/16/2015 12:36	
Chloromethane	ND	5.0	1,000	12/16/2015 12:36	
2-Chlorotoluene	ND	5.0	1,000	12/16/2015 12:36	
4-Chlorotoluene	ND	5.0	1,000	12/16/2015 12:36	
Dibromochloromethane	ND	5.0	1,000	12/16/2015 12:36	
1,2-Dibromo-3-chloropropane	ND	4.0	1,000	12/16/2015 12:36	
1,2-Dibromoethane (EDB)	ND	4.0	1,000	12/16/2015 12:36	
Dibromomethane	ND	5.0	1,000	12/16/2015 12:36	
1,2-Dichlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
1,3-Dichlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
1,4-Dichlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
Dichlorodifluoromethane	ND	5.0	1,000	12/16/2015 12:36	
1,1-Dichloroethane	ND	5.0	1,000	12/16/2015 12:36	
1,2-Dichloroethane (1,2-DCA)	ND	4.0	1,000	12/16/2015 12:36	
1,1-Dichloroethene	ND	5.0	1,000	12/16/2015 12:36	
cis-1,2-Dichloroethene	ND	5.0	1,000	12/16/2015 12:36	
trans-1,2-Dichloroethene	ND	5.0	1,000	12/16/2015 12:36	
1,2-Dichloropropane	ND	5.0	1,000	12/16/2015 12:36	
1,3-Dichloropropane	ND	5.0	1,000	12/16/2015 12:36	
2,2-Dichloropropane	ND	5.0	1,000	12/16/2015 12:36	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-25	1512610-003A	Soil	12/14/2015	GC18	114203
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	5.0	1,000	12/16/2015 12:36	
cis-1,3-Dichloropropene	ND	5.0	1,000	12/16/2015 12:36	
trans-1,3-Dichloropropene	ND	5.0	1,000	12/16/2015 12:36	
Diisopropyl ether (DIPE)	ND	5.0	1,000	12/16/2015 12:36	
Ethylbenzene	18	5.0	1,000	12/16/2015 12:36	
Ethyl tert-butyl ether (ETBE)	ND	5.0	1,000	12/16/2015 12:36	
Freon 113	ND	5.0	1,000	12/16/2015 12:36	
Hexachlorobutadiene	ND	5.0	1,000	12/16/2015 12:36	
Hexachloroethane	ND	5.0	1,000	12/16/2015 12:36	
2-Hexanone	ND	5.0	1,000	12/16/2015 12:36	
Isopropylbenzene	ND	5.0	1,000	12/16/2015 12:36	
4-Isopropyl toluene	ND	5.0	1,000	12/16/2015 12:36	
Methyl-t-butyl ether (MTBE)	ND	5.0	1,000	12/16/2015 12:36	
Methylene chloride	ND	5.0	1,000	12/16/2015 12:36	
4-Methyl-2-pentanone (MIBK)	ND	5.0	1,000	12/16/2015 12:36	
Naphthalene	23	5.0	1,000	12/16/2015 12:36	
n-Propyl benzene	7.4	5.0	1,000	12/16/2015 12:36	
Styrene	ND	5.0	1,000	12/16/2015 12:36	
1,1,1,2-Tetrachloroethane	ND	5.0	1,000	12/16/2015 12:36	
1,1,2,2-Tetrachloroethane	ND	5.0	1,000	12/16/2015 12:36	
Tetrachloroethene	ND	5.0	1,000	12/16/2015 12:36	
Toluene	9.6	5.0	1,000	12/16/2015 12:36	
1,2,3-Trichlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
1,2,4-Trichlorobenzene	ND	5.0	1,000	12/16/2015 12:36	
1,1,1-Trichloroethane	ND	5.0	1,000	12/16/2015 12:36	
1,1,2-Trichloroethane	ND	5.0	1,000	12/16/2015 12:36	
Trichloroethene	ND	5.0	1,000	12/16/2015 12:36	
Trichlorofluoromethane	ND	5.0	1,000	12/16/2015 12:36	
1,2,3-Trichloropropane	ND	5.0	1,000	12/16/2015 12:36	
1,2,4-Trimethylbenzene	54	5.0	1,000	12/16/2015 12:36	
1,3,5-Trimethylbenzene	13	5.0	1,000	12/16/2015 12:36	
Vinyl Chloride	ND	5.0	1,000	12/16/2015 12:36	
Xylenes, Total	76	5.0	1,000	12/16/2015 12:36	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-25	1512610-003A	Soil	12/14/2015	GC18	114203

Analytes	Result		RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	122		70-130		12/16/2015 12:36
Toluene-d8	109		70-130		12/16/2015 12:36
4-BFB	71		70-130		12/16/2015 12:36
Benzene-d6	234	S	60-140		12/16/2015 12:36
Ethylbenzene-d10	690	S	60-140		12/16/2015 12:36
1,2-DCB-d4	1066	S	60-140		12/16/2015 12:36

Analyst(s): KF

Analytical Comments: c7



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/16/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6	1512610-004C	Water	12/14/2015	GC16	114237
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	5000	500	12/16/2015 12:22	
tert-Amyl methyl ether (TAME)	ND	250	500	12/16/2015 12:22	
Benzene	ND	250	500	12/16/2015 12:22	
Bromobenzene	ND	250	500	12/16/2015 12:22	
Bromochloromethane	ND	250	500	12/16/2015 12:22	
Bromodichloromethane	ND	250	500	12/16/2015 12:22	
Bromoform	ND	250	500	12/16/2015 12:22	
Bromomethane	ND	250	500	12/16/2015 12:22	
2-Butanone (MEK)	ND	1000	500	12/16/2015 12:22	
t-Butyl alcohol (TBA)	ND	1000	500	12/16/2015 12:22	
n-Butyl benzene	ND	250	500	12/16/2015 12:22	
sec-Butyl benzene	ND	250	500	12/16/2015 12:22	
tert-Butyl benzene	ND	250	500	12/16/2015 12:22	
Carbon Disulfide	ND	250	500	12/16/2015 12:22	
Carbon Tetrachloride	ND	250	500	12/16/2015 12:22	
Chlorobenzene	ND	250	500	12/16/2015 12:22	
Chloroethane	ND	250	500	12/16/2015 12:22	
Chloroform	ND	250	500	12/16/2015 12:22	
Chloromethane	ND	250	500	12/16/2015 12:22	
2-Chlorotoluene	ND	250	500	12/16/2015 12:22	
4-Chlorotoluene	ND	250	500	12/16/2015 12:22	
Dibromochloromethane	ND	250	500	12/16/2015 12:22	
1,2-Dibromo-3-chloropropane	ND	100	500	12/16/2015 12:22	
1,2-Dibromoethane (EDB)	ND	250	500	12/16/2015 12:22	
Dibromomethane	ND	250	500	12/16/2015 12:22	
1,2-Dichlorobenzene	ND	250	500	12/16/2015 12:22	
1,3-Dichlorobenzene	ND	250	500	12/16/2015 12:22	
1,4-Dichlorobenzene	ND	250	500	12/16/2015 12:22	
Dichlorodifluoromethane	ND	250	500	12/16/2015 12:22	
1,1-Dichloroethane	ND	250	500	12/16/2015 12:22	
1,2-Dichloroethane (1,2-DCA)	ND	250	500	12/16/2015 12:22	
1,1-Dichloroethene	ND	250	500	12/16/2015 12:22	
cis-1,2-Dichloroethene	ND	250	500	12/16/2015 12:22	
trans-1,2-Dichloroethene	ND	250	500	12/16/2015 12:22	
1,2-Dichloropropane	ND	250	500	12/16/2015 12:22	
1,3-Dichloropropane	ND	250	500	12/16/2015 12:22	
2,2-Dichloropropane	ND	250	500	12/16/2015 12:22	

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/16/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6	1512610-004C	Water	12/14/2015	GC16	114237
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
1,1-Dichloropropene	ND		250	500	12/16/2015 12:22
cis-1,3-Dichloropropene	ND		250	500	12/16/2015 12:22
trans-1,3-Dichloropropene	ND		250	500	12/16/2015 12:22
Diisopropyl ether (DIPE)	ND		250	500	12/16/2015 12:22
Ethylbenzene	2200		250	500	12/16/2015 12:22
Ethyl tert-butyl ether (ETBE)	ND		250	500	12/16/2015 12:22
Freon 113	ND		250	500	12/16/2015 12:22
Hexachlorobutadiene	ND		250	500	12/16/2015 12:22
Hexachloroethane	ND		250	500	12/16/2015 12:22
2-Hexanone	ND		250	500	12/16/2015 12:22
Isopropylbenzene	ND		250	500	12/16/2015 12:22
4-Isopropyl toluene	ND		250	500	12/16/2015 12:22
Methyl-t-butyl ether (MTBE)	ND		250	500	12/16/2015 12:22
Methylene chloride	ND		250	500	12/16/2015 12:22
4-Methyl-2-pentanone (MIBK)	ND		250	500	12/16/2015 12:22
Naphthalene	550		250	500	12/16/2015 12:22
n-Propyl benzene	ND		250	500	12/16/2015 12:22
Styrene	ND		250	500	12/16/2015 12:22
1,1,1,2-Tetrachloroethane	ND		250	500	12/16/2015 12:22
1,1,2,2-Tetrachloroethane	ND		250	500	12/16/2015 12:22
Tetrachloroethene	ND		250	500	12/16/2015 12:22
Toluene	13,000		250	500	12/16/2015 12:22
1,2,3-Trichlorobenzene	ND		250	500	12/16/2015 12:22
1,2,4-Trichlorobenzene	ND		250	500	12/16/2015 12:22
1,1,1-Trichloroethane	ND		250	500	12/16/2015 12:22
1,1,2-Trichloroethane	ND		250	500	12/16/2015 12:22
Trichloroethene	ND		250	500	12/16/2015 12:22
Trichlorofluoromethane	ND		250	500	12/16/2015 12:22
1,2,3-Trichloropropane	ND		250	500	12/16/2015 12:22
1,2,4-Trimethylbenzene	1800		250	500	12/16/2015 12:22
1,3,5-Trimethylbenzene	430		250	500	12/16/2015 12:22
Vinyl Chloride	ND		250	500	12/16/2015 12:22
Xylenes, Total	8800		250	500	12/16/2015 12:22

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Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/16/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6	1512610-004C	Water	12/14/2015	GC16	114237

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	113	70-130		12/16/2015 12:22
Toluene-d8	96	70-130		12/16/2015 12:22
4-BFB	83	70-130		12/16/2015 12:22

Analyst(s): KF

Analytical Comments: b1



Analytical Report

Client: Geosolve, Inc.	WorkOrder: 1512610
Date Received: 12/14/15 19:22	Extraction Method: SW5030B
Date Prepared: 12/14/15	Analytical Method: SW8021B/8015Bm
Project: 2015-29; Webster-Lennar	Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-20	1512610-002A	Soil	12/14/2015	GC19	114201

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	12/15/2015 12:28
MTBE	ND	0.050	1	12/15/2015 12:28
Benzene	ND	0.0050	1	12/15/2015 12:28
Toluene	ND	0.0050	1	12/15/2015 12:28
Ethylbenzene	ND	0.0050	1	12/15/2015 12:28
Xylenes	ND	0.015	1	12/15/2015 12:28

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	108	70-130	12/15/2015 12:28

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-25	1512610-003A	Soil	12/14/2015	GC19	114201

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	800	33	33	12/15/2015 22:32
MTBE	ND	1.7	33	12/15/2015 22:32
Benzene	0.68	0.17	33	12/15/2015 22:32
Toluene	4.7	0.17	33	12/15/2015 22:32
Ethylbenzene	10	0.17	33	12/15/2015 22:32
Xylenes	45	0.50	33	12/15/2015 22:32

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	95	70-130	12/15/2015 22:32

Analyst(s): IA

Analytical Comments: d1



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/16/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6	1512610-004A	Water	12/14/2015	ICP-MS1	114319

Analytes	Result	RL	DF	Date Analyzed
Lead	3500	10	20	12/17/2015 11:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	118	70-130	12/17/2015 11:45

Analyst(s): DB **Analytical Comments:** b1



Analytical Report

Client: Geosolve, Inc.
Date Received: 12/14/15 19:22
Date Prepared: 12/14/15
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-20	1512610-002A	Soil	12/14/2015	ICP-JY	114205

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/16/2015 13:12

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	110	70-130	12/16/2015 13:12

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B6-25	1512610-003A	Soil	12/14/2015	ICP-JY	114205

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	12/16/2015 11:36

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	12/16/2015 11:36

Analyst(s): BBO



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/14/15
Date Analyzed: 12/15/15
Instrument: GC16, GC18
Matrix: Soil
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
BatchID: 114203
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114203
 1512608-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0522	0.0050	0.050	-	104	53-116
Benzene	ND	0.0557	0.0050	0.050	-	111	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.234	0.050	0.20	-	117	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0529	0.0050	0.050	-	106	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0532	0.0040	0.050	-	106	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0581	0.0040	0.050	-	116	58-135
1,1-Dichloroethene	ND	0.0569	0.0050	0.050	-	114	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/14/15
Date Analyzed: 12/15/15
Instrument: GC16, GC18
Matrix: Soil
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
BatchID: 114203
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-114203
 1512608-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0570	0.0050	0.050	-	114	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0558	0.0050	0.050	-	112	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0533	0.0050	0.050	-	107	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0579	0.0050	0.050	-	116	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0649	0.0050	0.050	-	130	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client:	Geosolve, Inc.	WorkOrder:	1512610
Date Prepared:	12/14/15	BatchID:	114203
Date Analyzed:	12/15/15	Extraction Method:	SW5030B
Instrument:	GC16, GC18	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	2015-29; Webster-Lennar	Sample ID:	MB/LCS-114203 1512608-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.138	0.133		0.12	111	106	70-130
Toluene-d8	0.150	0.125		0.12	120	100	70-130
4-BFB	0.0111	0.0146		0.012	89	117	70-130
Benzene-d6	0.113	0.0956		0.10	113	96	60-140
Ethylbenzene-d10	0.112	0.104		0.10	112	104	60-140
1,2-DCB-d4	0.105	0.0791		0.10	105	79	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0524	0.0530	0.050	ND	105	106	70-130	1.20	20
Benzene	0.0497	0.0533	0.050	ND	99	107	70-130	7.07	20
t-Butyl alcohol (TBA)	0.220	0.213	0.20	ND	110	107	70-130	2.89	20
Chlorobenzene	0.0494	0.0493	0.050	ND	99	99	70-130	0	20
1,2-Dibromoethane (EDB)	0.0510	0.0509	0.050	ND	102	102	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	0.0507	0.0528	0.050	ND	101	105	70-130	3.97	20
1,1-Dichloroethene	0.0438	0.0508	0.050	ND	88	102	70-130	14.8	20
Diisopropyl ether (DIPE)	0.0486	0.0523	0.050	ND	97	105	70-130	7.26	20
Ethyl tert-butyl ether (ETBE)	0.0513	0.0537	0.050	ND	103	107	70-130	4.45	20
Methyl-t-butyl ether (MTBE)	0.0506	0.0530	0.050	ND	101	106	70-130	4.62	20
Toluene	0.0437	0.0454	0.050	ND	87	91	70-130	3.78	20
Trichloroethene	0.0529	0.0555	0.050	ND	106	111	70-130	4.78	20
Surrogate Recovery									
Dibromofluoromethane	0.144	0.145	0.12		115	116	70-130	0.992	20
Toluene-d8	0.136	0.137	0.12		109	110	70-130	0.883	20
4-BFB	0.0118	0.0118	0.012		95	94	70-130	0.510	20
Benzene-d6	0.116	0.117	0.10		116	117	60-140	0.963	20
Ethylbenzene-d10	0.110	0.111	0.10		110	111	60-140	1.19	20
1,2-DCB-d4	0.107	0.106	0.10		107	106	60-140	1.17	20



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	10.3	0.50	10	-	103	54-140
Benzene	ND	9.86	0.50	10	-	99	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	35.1	2.0	40	-	88	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.54	0.50	10	-	95	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.39	0.50	10	-	94	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.72	0.50	10	-	97	66-125
1,1-Dichloroethene	ND	9.91	0.50	10	-	99	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.79	0.50	10	-	98	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	10.1	0.50	10	-	101	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.79	0.50	10	-	98	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	9.52	0.50	10	-	95	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.4	0.50	10	-	104	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Geosolve, Inc.
Date Prepared: 12/15/15
Date Analyzed: 12/15/15
Instrument: GC28
Matrix: Water
Project: 2015-29; Webster-Lennar

WorkOrder: 1512610
BatchID: 114237
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-114237
 1512602-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	28.0	27.7		25	112	111	70-130
Toluene-d8	27.5	28.0		25	110	112	70-130
4-BFB	2.50	2.53		2.5	100	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	12.2	12.7	10	ND	122	127	69-139	3.99	20
Benzene	10.8	11.3	10	ND	108	113	69-141	4.72	20
t-Butyl alcohol (TBA)	46.6	48.2	40	ND	114	118	41-152	3.41	20
Chlorobenzene	10.2	10.8	10	ND	102	107	77-120	5.30	20
1,2-Dibromoethane (EDB)	11.0	11.5	10	ND	110	115	76-135	4.25	20
1,2-Dichloroethane (1,2-DCA)	11.4	11.8	10	ND	114	118	73-139	4.26	20
1,1-Dichloroethene	10.9	11.3	10	ND	109	113	59-140	3.94	20
Diisopropyl ether (DIPE)	10.8	11.3	10	ND	108	113	72-140	4.30	20
Ethyl tert-butyl ether (ETBE)	11.5	12.1	10	ND	115	121	71-140	5.19	20
Methyl-t-butyl ether (MTBE)	11.8	12.2	10	ND	119	122	73-139	3.04	20
Toluene	10.1	10.7	10	ND	101	107	71-128	5.43	20
Trichloroethene	11.0	11.6	10	ND	110	116	64-132	5.07	20
Surrogate Recovery									
Dibromofluoromethane	28.9	28.9	25		115	115	70-130	0	20
Toluene-d8	27.2	27.4	25		109	109	70-130	0	20
4-BFB	2.71	2.72	2.5		108	109	70-130	0.448	20



Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512610
Date Prepared: 12/14/15	BatchID: 114201
Date Analyzed: 12/15/15	Extraction Method: SW5030B
Instrument: GC19	Analytical Method: SW8021B/8015Bm
Matrix: Soil	Unit: mg/Kg
Project: 2015-29; Webster-Lennar	Sample ID: MB/LCS-114201 1512610-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.592	0.40	0.60	-	99	70-130
MTBE	ND	0.0805	0.050	0.10	-	80	70-130
Benzene	ND	0.101	0.0050	0.10	-	101	70-130
Toluene	ND	0.104	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.109	0.0050	0.10	-	109	70-130
Xylenes	ND	0.350	0.015	0.30	-	117	70-130

Surrogate Recovery

2-Fluorotoluene	0.103	0.123		0.10	103	123	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		150	NR	NR	-	NR	
MTBE	NR	NR		ND<1.7	NR	NR	-	NR	
Benzene	NR	NR		0.68	NR	NR	-	NR	
Toluene	NR	NR		4.7	NR	NR	-	NR	
Ethylbenzene	NR	NR		10	NR	NR	-	NR	
Xylenes	NR	NR		45	NR	NR	-	NR	

Surrogate Recovery

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512610
Date Prepared: 12/14/15	BatchID: 114185
Date Analyzed: 12/14/15	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: 2015-29; Webster-Lennar	Sample ID: MB/LCS-114185 1512515-038AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	57.9	40	60	-	96	70-130
MTBE	ND	9.02	5.0	10	-	90	70-130
Benzene	ND	10.2	0.50	10	-	101	70-130
Toluene	ND	10.2	0.50	10	-	102	70-130
Ethylbenzene	ND	10.5	0.50	10	-	105	70-130
Xylenes	ND	31.9	1.5	30	-	106	70-130
Surrogate Recovery							
aaa-TFT	8.55	8.42		10	85	84	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	59.1	57.3	60	ND	99	96	70-130	3.06	20
MTBE	8.80	8.88	10	ND	88	89	70-130	0.954	20
Benzene	10.2	10.7	10	ND	98	102	70-130	4.17	20
Toluene	10.4	10.8	10	ND	99	104	70-130	4.15	20
Ethylbenzene	10.2	10.6	10	ND	101	105	70-130	4.29	20
Xylenes	30.8	31.8	30	ND	103	106	70-130	3.15	20
Surrogate Recovery									
aaa-TFT	8.76	8.62	10		88	86	70-130	1.64	20



Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512610
Date Prepared: 12/16/15	BatchID: 114319
Date Analyzed: 12/17/15	Extraction Method: E200.8
Instrument: ICP-MS1, ICP-MS2	Analytical Method: E200.8
Matrix: Water	Unit: µg/L
Project: 2015-29; Webster-Lennar	Sample ID: MB/LCS-114319 1512727-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	51.0	0.50	50	-	102	85-115
Surrogate Recovery							
Terbium	793	798		750	106	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	53.2	52.5	50	ND	106	104	70-130	1.32	20
Surrogate Recovery									
Terbium	858	860	750		114	115	70-130	0.163	20



Quality Control Report

Client: Geosolve, Inc.	WorkOrder: 1512610
Date Prepared: 12/14/15	BatchID: 114205
Date Analyzed: 12/16/15	Extraction Method: SW3050B
Instrument: ICP-JY	Analytical Method: SW6010B
Matrix: Soil	Unit: mg/Kg
Project: 2015-29; Webster-Lennar	Sample ID: MB/LCS-114205 1512610-003AMS/MSD

QC Summary Report for Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	45.8	5.0	50	-	92	75-125
Surrogate Recovery							
Terbium	576	506		500	115	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	52.4	56.3	50	ND	98	106	75-125	7.04	25
Surrogate Recovery									
Terbium	505	550	500		101	110	70-130	8.53	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512610

ClientCode: GSP

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Rob Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
(925) 963-1198 FAX:

Email: rcampbell@geosolve-inc.com
cc/3rd Party:
PO: 2015-29
ProjectNo: 2015-29; Webster-Lennar

Bill to:

Lisa Campbell
Geosolve, Inc.
1807 Santa Rita Road, Suite D-165
Pleasanton, CA 94566
lcampbell@geosolve-inc.com

Requested TAT: 3 days;

Date Received: 12/14/2015

Date Logged: 12/14/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1512610-002	B6-20	Soil	12/14/2015	<input type="checkbox"/>	A		A		A							
1512610-003	B6-25	Soil	12/14/2015	<input type="checkbox"/>	A		A		A							
1512610-004	B-6	Water	12/14/2015	<input type="checkbox"/>		C		B		A						

Test Legend:

1	8260B_S
5	PB_TTLC_S
9	

2	8260B_W
6	PBMS_TTLC_W
10	

3	G-MBTEX_S
7	
11	

4	G-MBTEX_W
8	
12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: GEOSOLVE, INC.
Project: 2015-29; Webster-Lennar
Comments:

QC Level: LEVEL 2
Client Contact: Rob Campbell
Contact's Email: rcampbell@geosolve-inc.com

Work Order: 1512610
Date Logged: 12/14/2015

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1512610-001A	B6-15	Soil		1	Acetate Liner	<input type="checkbox"/>	12/14/2015			<input checked="" type="checkbox"/>	
1512610-002A	B6-20	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/14/2015	3 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		3 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		3 days		<input type="checkbox"/>	
1512610-003A	B6-25	Soil	SW6010B (Lead)	1	Acetate Liner	<input type="checkbox"/>	12/14/2015	3 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		3 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		3 days		<input type="checkbox"/>	
1512610-004A	B-6	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3	<input type="checkbox"/>	12/14/2015	3 days	50%+	<input type="checkbox"/>	
1512610-004B	B-6	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	12/14/2015	3 days	50%+	<input type="checkbox"/>	
1512610-004C	B-6	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	12/14/2015	3 days	50%+	<input type="checkbox"/>	
				1	VOA	<input type="checkbox"/>			50%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **Geosolve, Inc.**
 Project Name: **2015-29; Webster-Lennar**
 WorkOrder №: **1512610** Matrix: Soil/Water
 Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: **12/14/2015 16:45**
 Date Logged: **12/14/2015**
 Received by: **Jena Alfaro**
 Logged by: **Briana Cutino**

Chain of Custody (COC) Information

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
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 2.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No
 (Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

Comments: pH adjusted in Lab.