



RECEIVED By Alameda County Environmental Health 3:30 pm, Mar 24, 2017

Visit us at www.geosolve-inc.com Project No. 2015-29 August 8, 2016

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

1)

Subject: ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENT Parking Lot Parcels 301 19th Street 008-0625-002-1 Oakland, California

References:

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

 Phase II Environmental Site Assessment at 1750 Webster Street and 301 19th Street in Oakland, California

By GeoSolve, Inc. Dated November 7, 2015

 Additional Phase II Environmental Site Assessment at 1750 Webster Street and 301 19th Street in Oakland, California
 By GeoSolve, Inc. Dated December 23, 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 301 19th Street in Oakland, California. The subject site consists of one parcel bounded by Webster Street to the north, 19th Street to the east, Harrison Street to the south and vacant parking lots to the west. The subject property has Assessor Parcel Number (APN) 008-0625-002-1 and occupies approximately 0.52 acre. The subject property is vacant and used as a parking lot. The site vicinity is shown on Figure 1, Site Vicinity Map.

1807 Santa Rita Road, Suite D-165 • Pleasanton, CA 94566 rcampbell@geosolve-inc.com • (925) 963-1198

Background

Based on review of Reference 1, elevated concentrations of total petroleum hydrocarbons reported as gasoline (TPHg) and benzene were detected in groundwater up to 200,000 micrograms per liter (μ g/L) and 14,000 μ 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 2). 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 (μ g/L) in groundwater sample B-1. An elevated concentration of TPHg was detected at 26,000 μ g/L, which exceed the residential ESL of 500 μ g/L in groundwater sample B-1. Benzene, toluene, ethyl benzene and total xylenes exceeded residential ESLs of 27 μ g/L, 130 μ g/L and 100 μ g/L, respectively.

In December 2015, an Additional Phase II ESA was conducted at 1750 Webster and 301 19th Streets to evaluate the lateral and vertical extent of the petroleum hydrocarbons and VOCs in the subsurface soil and groundwater beneath the site (Reference 3). Based on the laboratory analytical results of the soil and groundwater samples collected from borings B-4 through B-6, no detectable concentrations of TPHg or BTEX were reported in soil samples analyzed from 10 feet and 20 feet bgs; however, minor concentrations of TPHg or BTEX were detected in the soil samples collected from 25 feet bgs in borings B-4 and B-5. Furthermore, no detectable concentrations of chlorinated hydrocarbons or MTBE were detected in any soil and/or groundwater sample collected 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.



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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.

The purpose of conducting this Additional Phase II ESA is to evaluate the subsurface conditions in soil and ground around the former gasoline service station along Harrison Street at 301 19th Street identified in the Phase I ESA (Reference 1) 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-7 through B-9) to groundwater on July 14, 2016. The locations of borings B-7 through B-9 are shown on Figure 2, which were all drilled on 301 19th 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, and 15feet 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 approximately 2-inches of asphalt underlain black silty clay to gray clayey gravel (fill). The fill unit extended to approximately 1 foot bgs and was underlain by yellow brown to gray brown fine sandy clay to brown mottled yellow clayey fine sand to approximately 4 feet to 6 feet bgs. The fine sandy clay to clayey fine sand was underlain by gray brown clayey fine sand to gray brown mottled yellow fine to medium



sand to the total explored depth of 20 feet bgs, with the exception of gray brown silty clay from 16 feet to 17.5 feet bgs in boring B-9.

No odors or staining were noted in any boring explored. Groundwater was encountered at 17.5 feet in borings B-7 and B-9 and 15 feet bgs in boring B-8. 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 B7-1, B7-10, B7-15, B8-1, B8-10, B8-15, B9-10, and B9-15 were analyzed for total lead using Environmental Protection Agency (EPA) SW3050B/SW6010B. Soil samples B7-1, B7-10, B7-15, B8-1, B8-10, B8-15, B9-1, B9-10, and B9-15 and groundwater grab samples B-7, B-8, and B-9 were analyzed for TPHg, BTEX, methyl tertiary butyl ether (MTBE), and lead using EPA Methods SW5030B/SW8021B/8015m and 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 301 19th Street Oakland, California July 14, 2016

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)	Lead (mg/Kg)
B7-1	1	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	5.1
B7-10	10	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	1.7
B7-15	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	2.0
B8-1	1	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	9.7
B8-10	10	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	2.0
B8-15	15	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	2.3
B9-1	1	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	NA
B9-10	10	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	1.6
B9-15	1	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	2.5
ESLs		100	0.74	9.3	4.7	111	8.4	80

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

= not analyzed.

NA



TABLE 2 LABORATORY ANALYTICAL RESULTS OF GROUNDWATER SAMPLES 301 19th Street Oakland, California July 14, 2016

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)	Lead (µg/L)
B-7	17.5	<50	< 0.50	< 0.50	< 0.50	< 0.050	<5	280
B-8	15	<50	< 0.50	< 0.50	< 0.50	< 0.050	<5	440
B-9	17.5	<50	< 0.50	0.77	< 0.50	< 0.050	<5	34
ESLs		500	27	130	43	100	1,800	2.5

 $\mu g/L$ = micrograms per liter, equivalent to parts per billion (ppb).

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-7 through B-9 at 1 foot, 10 feet or 15 feet bgs, as shown on Table 1 and were detected below the California Regional Water Quality Control Board – Region 2 (RWQCB) Environmental Screening Levels (ESLs) listed at the base of Table 1 for residential development (Table B, December 2013). Lead was detected at concentrations ranging from 1.7 mg/Kg to 9.7 mg/Kg, which were below the residential soil ESL of 80 mg/Kg. In addition, MTBE was not detected in any soil sample analyzed from borings B-7 through B-9.

No detectable concentrations of TPHg (less than 50 micrograms per liter [μ g/L]), BTEX (less than 0.50 μ g/L) or MTBE (less than 0.05 μ g/L) in groundwater grab samples B-7 through B-9, with the exception of a very low concentration of toluene of 0.77 μ g/L in groundwater grab sample B-9. TPHg, BTEX and MTBE were detected below residential ESLs for groundwater as listed at the base of Table 2.

Lead was detected above the residential ESL of 2.5 μ g/L at concentrations ranging from 34 μ g/L to 440 μ 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, BTEX or MTBE were reported in any soil sample analyzed from borings B-7 through B-9.



- No detectable concentrations of TPHg, BTEX, or MTBE were reported in groundwater samples B-7 through B-9, with the exception of a very low concentration of toluene at 0.77 µg/L in groundwater grab sample B-9.
- No elevated concentrations lead were detected in any soil sample analyzed from borings B-7 through B-9. Moderate concentrations of dissolved lead were detected in all groundwater samples collected from borings B-7 through B-9, and represent background concentrations. These moderately elevated dissolved lead concentrations detected in groundwater grab samples B-7 through B-9 do not pose a significant risk to the property since groundwater is not potable and the groundwater will not be used in the proposed development.
- These data suggest the former gasoline service station situated along Harrison Street did not significantly impact the subject property and the existing petroleum-hydrocarbon groundwater plume detected on 1750 Webster Street has not impacted the southern portion of the 301 19th Street property.

Recommendations

Based on the conclusions presented in this Letter Report, *GeoSolve, Inc.* recommends no further action is required on the subject property.

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

Sincerely, GIONAL GA GeoSolve, Inc. CAMPBELL C.E.G. No. 2089 CERTIFIED OF CAL

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







APPENDIX A

LOGS OF BORING



1 37.1 2. Inches of aginati Velow brown motified gray, fine sand CLAY (CL), no odor, moist; 3	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
6 97.5 Gray brown, fine to medium SAND (SP) with sit,, no odor, moist; 10 87.10 Gray brown, fine to medium SAND (SP) with sit, no odor, moist; 11 12 Gray brown, fine to medium SAND (SP) with sit, no odor, moist; 11 12 Gray brown, fine to medium SAND (SP) with sit, no odor, moist; 11 12 Gray brown, fine to medium SAND (SP) with sit, no odor, moist; 11 12 Gray brown, fine to medium sand @ 16 feet) 14 15 87.10 15 80 fing was terminated at 20 feet below ground surface (bgs). 17 Groundwater was encountered at 17.5 feet bgs. 22 Groundwater was encountered at 17.5 feet bgs.	-2-	_		Black, silty CLAY (CL) with sand, odor, moist; Yellow brown mottled gray, fine sand CLAY (CL), no odor,							
	— 5 — B7-5 — 6 —	2		Gray brown, clayey fine SAND (SC), no odor,	moist;							
14- 15- 87.13 (grades medium sand @ 16 feet) 16- 17- 1 1 18- 17- 1 19- 17- 1 19- 19- 10- 19- 19- 10- 19- 19- 10- 19- 19- 10- 19- 19- 10- 19- 19- 10- 19- 19- 10- 20- 19- 10- 20- 10- 17- 19- 10- 17- 20- 10- 17- 20- 10- 17- 20- 10- 17- 20- 10- 17- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10- 20- 10- 10-		_			silt,, no odor,							
-21- -21- -22- -22- -23- -24- -24- -25- -26- -27- -28- -29- -30 -29- -29- -20- -20- -20- -20- -27- -28- -29- -29- -20- -20- -20- <tr< td=""><td>—15—B7-15 —16— —17— —18—</td><td></td><td>Ţ</td><td>(grades medium sand @ 16 feet)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	—15—B7-15 —16— —17— —18—		Ţ	(grades medium sand @ 16 feet)								
DC 07/14/16 2.5" BORING LOG GeoSolve, Inc. LENNAR MULTIFAMILY COMMUNITIES ADDITIONAL PHASE II ENVIRONMENTAL SITE ASSESSMENTS 1750 WEBSTER STREET and 301 19th sTREET OAKLAND, CALIFORNIA Figure No.	-20-B7-20 -21- -22- -23- -24- -25- -26- -27- -28- -29-					bgs).						
GeoSolve, Inc. Lennar Multifamily communities additional phase ii environmental site assessments 1750 Webster Street and 301 19th street OAKLAND, CALIFORNIA Figure No.							E	30	RIN	IG I	LOG	
Decemento ocurror man ocurro de La Droject No. I Droject N	50		G	eoSolve, Inc.	1	NAL PH 750 WE	NAR MU ASE II E BSTER OAKI	LTIFAN NVIRON STREE AND, C	ILY CON MENTA T and 30 ALIFOR	MUNITIE L SITE AS 1 19th sTi	S SSESSMENTS REET	Figure No.

Depth (ft) Soil Samples	Sdinple Ivo. & Type Symbol			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 - B8-1 - 2 - - 3 - - 4 -		2 inches of asphalt Black, silty CLAY (CL) with sand, odor, moist; Brown mottled Yellow clayey fine sand (SC), no odor;	 moist;							
5 B8-5 6 7 8		Gray brown mottled yellow, fine to medium with silt, no odor, very moist;	SAND (SP)							
-9- -10										
—14— —15—B8-15 —16— —17—	Ţ	(grades medium sand @ 14 feet)								
		Boring was terminated at 20 feet below gro Groundwater was encountered at 15 feet b		bgs).						
-22- -23- -24- -25-										
-26- -27- -28- -29-										
ogged by:		Date Logged: Diameter:			F	30	RIN	IG I	LOG	
RDC		07/14/16 2.5"	1	NAL PH 750 WE	NAR MU ASE II E BSTER OAKL	LTIFAM NVIRON STREE AND, C	ILY CON IMENTA 7 and 30 ALIFOR	MUNITIE: L SITE AS 1 19th sTF	SSESSMENTS	Figure No.
t us at www.geosolve-inc.com		ess: 1807 Santa Rita Rd, Suite D-165 Pleasanton, California 94566	Project No. 2015-29	Drawn	GC		cale: N	A	07/2016	

Depth (ft) Soil Samples	Symbol			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 - B9-1 -2 - -3 - -4 -		2 inches of asphalt Gray, clayey GRAVEL with sand, no odor, mo Yellow brown mottled gray, clayey fine SANE no odor, moist;	ist (FIL <u>L)</u> D (SC),							
5- B9-5 6- 7- 8- 9-		Brown mottled gray, fine to medium SAND (Sodor, moist;	SP) with silt, no							
		(grades medium sand @ 12.5 feet)								
15	Ţ	Gray brown, silty CLAY (CL), no odor, very mo Gray brown, medium SAND (SP), no odor, we								
-20—B9-20 -21— -22— -23— -24—		Boring was terminated at 20 feet below gro Groundwater was encountered at 17.5 feet		bgs).						
25 26 27 28 29										
gged by:		Date Logged: Diameter:			F	30	RIN		_OG	
		07/14/16 2.5"	1	NAL PH 750 WE	NAR MU ASE II E BSTER OAKL	LTIFAN NVIROI STREE AND, C	ILY CON IMENTA F and 30 ALIFOR	MUNITIE: L SITE AS 1 19th sTF	S SSESSMENTS REET	Figure No.
at www.geosolve-inc.com		ess: 1807 Santa Rita Rd, Suite D-165 Pleasanton, California 94566	Project No. 2015-29	Drawn	GC		cale: N	A	Date: 07/2016	

APPENDIX B

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





McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1607612

Report Created for: Geosolve, Inc.

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

Project Contact:	Rob Campbell
J	r r r r r

Project P.O.:

Project Name:2015-29; 19th Street

Project Received: 07/14/2016

Analytical Report reviewed & approved for release on 07/20/2016 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.



1534 Willow Pass Rd. Pittsburg, CA 94565 TEL: (877) 252-9262 FAX: (925) 252-9269 www.mccampbell.com

CDPH ELAP 1644 ♦ NELAP 4033ORELAP



Glossary of Terms & Qualifier Definitions

Client:Geosolve, Inc.Project:2015-29; 19th StreetWorkOrder:1607612

Glossary Abbreviation

%D	Serial Dilution Percent Difference
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 (Serial Dilution)
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
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

aqueous sample that contains greater than ~1 vol. % sediment



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder: 1607612 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
B7-1	1607612-001A	Soil	07/14/201	16	GC19	123785
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g)	ND		1.0	1		07/18/2016 20:08
MTBE	ND		0.050	1		07/18/2016 20:08
Benzene	ND		0.0050	1		07/18/2016 20:08
Toluene	ND		0.0050	1		07/18/2016 20:08
Ethylbenzene	ND		0.0050	1		07/18/2016 20:08
Xylenes	ND		0.015	1		07/18/2016 20:08
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
2-Fluorotoluene	86		70-130			07/18/2016 20:08
<u>Analyst(s):</u> IA						
Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
Client ID B7-10	Lab ID 1607612-003A	Matrix Soil	Date Co 07/14/20		Instrument GC7	Batch ID 123785
B7-10 Analytes	1607612-003A		07/14/20	16		123785
B7-10	1607612-003A <u>Result</u>		07/14/20 ′ <u>RL</u>	16 DF		123785 Date Analyzed
B7-10 Analytes TPH(g)	1607612-003A <u>Result</u> ND		07/14/20 <u>RL</u> 1.0	16 <u>DF</u> 1		123785 Date Analyzed 07/19/2016 04:39
B7-10 Analytes TPH(g) MTBE	1607612-003A <u>Result</u> ND ND		07/14/20 <u>RL</u> 1.0 0.050	16 DF 1 1		123785 Date Analyzed 07/19/2016 04:39 07/19/2016 04:39
B7-10 Analytes TPH(g) MTBE Benzene	1607612-003A <u>Result</u> ND ND ND		07/14/20 <u>RL</u> 1.0 0.050 0.0050	16 DF 1 1 1		123785 Date Analyzed 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39
B7-10 Analytes TPH(g) MTBE Benzene Toluene	1607612-003A Result ND ND ND ND ND ND ND		07/14/20 <u>RL</u> 1.0 0.050 0.0050 0.0050	16 DE 1 1 1 1		123785 Date Analyzed 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39
B7-10 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	1607612-003A <u>Result</u> ND ND ND ND ND ND ND		07/14/20 <u>RL</u> 1.0 0.050 0.0050 0.0050 0.0050	16 DF 1 1 1 1 1 1		123785 Date Analyzed 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39
B7-10 <u>Analytes</u> TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	1607612-003A Result ND ND		07/14/20 <u>RL</u> 1.0 0.050 0.0050 0.0050 0.0050 0.0050 0.015	16 DF 1 1 1 1 1 1		123785 Date Analyzed 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39 07/19/2016 04:39



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder: 1607612 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
B7-15	1607612-004A	Soil	07/14/201	6	GC19	123785
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g)	ND		1.0	1		07/18/2016 20:38
MTBE	ND		0.050	1		07/18/2016 20:38
Benzene	ND		0.0050	1		07/18/2016 20:38
Toluene	ND		0.0050	1		07/18/2016 20:38
Ethylbenzene	ND		0.0050	1		07/18/2016 20:38
Xylenes	ND		0.015	1		07/18/2016 20:38
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
2-Fluorotoluene	97		70-130			07/18/2016 20:38
<u>Analyst(s):</u> IA						
Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
B8-1	1607612-006A	Soil	07/14/201	6	GC19	123785
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
						Date Analyzeu
TPH(g)	ND		1.0	1		07/19/2016 11:53
TPH(g) MTBE	ND ND		1.0 0.050			
				1		07/19/2016 11:53
MTBE	ND		0.050	1 1		07/19/2016 11:53 07/19/2016 11:53
MTBE Benzene	ND ND		0.050	1 1 1		07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53
MTBE Benzene Toluene	ND ND ND		0.050 0.0050 0.0050	1 1 1 1		07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53
MTBE Benzene Toluene Ethylbenzene	ND ND ND ND		0.050 0.0050 0.0050 0.0050	1 1 1 1 1		07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53
MTBE Benzene Toluene Ethylbenzene Xylenes	ND ND ND ND ND ND		0.050 0.0050 0.0050 0.0050 0.0050 0.015	1 1 1 1 1		07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53 07/19/2016 11:53



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder: 1607612 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
B8-10	1607612-008A	Soil	07/14/201	16	GC7	123785
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g)	ND		1.0	1		07/19/2016 04:09
MTBE	ND		0.050	1		07/19/2016 04:09
Benzene	ND		0.0050	1		07/19/2016 04:09
Toluene	ND		0.0050	1		07/19/2016 04:09
Ethylbenzene	ND		0.0050	1		07/19/2016 04:09
Xylenes	ND		0.015	1		07/19/2016 04:09
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
2-Fluorotoluene	95		70-130			07/19/2016 04:09
<u>Analyst(s):</u> IA						
Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
		•	07/14/201	6	GC19	
B8-15	1607612-009A	Soil	07/14/20	0	9013	123785
Analytes	1607612-009A <u>Result</u>	Soil	<u>RL</u>	DE		123785 Date Analyzed
Analytes		Soll		-		
	Result	Soil	RL	DE		Date Analyzed
<u>Analytes</u> TPH(g)	<u>Result</u> ND	Soil	<u>RL</u> 1.0	<u>DF</u> 1		Date Analyzed 07/18/2016 21:09
Analytes TPH(g) MTBE	<u>Result</u> ND ND	Soil	<u>RL</u> 1.0 0.050	<u>DF</u> 1 1		Date Analyzed 07/18/2016 21:09 07/18/2016 21:09
Analytes TPH(g) MTBE Benzene	Result ND ND ND	Soil	RL 1.0 0.050 0.0050	<u>DF</u> 1 1		Date Analyzed 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09
Analytes TPH(g) MTBE Benzene Toluene	Result ND ND ND ND ND	Soil	RL 1.0 0.050 0.0050 0.0050	DF 1 1 1 1		Date Analyzed 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09
Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Result ND ND ND ND ND ND		RL 1.0 0.050 0.0050 0.0050 0.0050	DF 1 1 1 1 1 1		Date Analyzed 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09
Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Result ND ND ND ND ND ND ND ND		RL 1.0 0.050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.015	DF 1 1 1 1 1 1		Date Analyzed 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09 07/18/2016 21:09



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder: 1607612 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
B9-1	1607612-011A	Soil	07/14/201	6	GC19	123785
Analytes	Result		<u>RL</u>	DF		Date Analyzed
TPH(g)	ND		1.0	1		07/18/2016 21:39
MTBE	ND		0.050	1		07/18/2016 21:39
Benzene	ND		0.0050	1		07/18/2016 21:39
Toluene	ND		0.0050	1		07/18/2016 21:39
Ethylbenzene	ND		0.0050	1		07/18/2016 21:39
Xylenes	ND		0.015	1		07/18/2016 21:39
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
2-Fluorotoluene	91		70-130			07/18/2016 21:39
<u>Analyst(s):</u> IA						
Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
B9-10	1607612-013A	Soil	07/14/201	6	GC7	123785
Analytes	Result		<u>RL</u>	DF		Date Analyzed
TPH(g)	ND		1.0	1		07/19/2016 03:39
MTBE	ND		0.050	1		07/19/2016 03:39
						07/19/2016 03:39
Benzene	ND		0.0050	1		07/19/2016 03:39
Benzene Toluene	ND ND		0.0050	1 1		07/19/2016 03:39
Toluene	ND		0.0050	1		07/19/2016 03:39
Toluene Ethylbenzene	ND ND		0.0050 0.0050	1 1		07/19/2016 03:39 07/19/2016 03:39
Toluene Ethylbenzene Xylenes	ND ND ND		0.0050 0.0050 0.015	1 1		07/19/2016 03:39 07/19/2016 03:39



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder: 1607612 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Colle	cted Instrument	Batch ID
B9-15	1607612-014A	Soil	07/14/2016	GC19	123785
Analytes	Result		<u>RL [</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	07/18/2016 22:10
MTBE	ND		0.050	1	07/18/2016 22:10
Benzene	ND		0.0050	1	07/18/2016 22:10
Toluene	ND		0.0050	1	07/18/2016 22:10
Ethylbenzene	ND		0.0050	1	07/18/2016 22:10
Xylenes	ND		0.015	1	07/18/2016 22:10
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
2-Fluorotoluene	94		70-130		07/18/2016 22:10
<u>Analyst(s):</u> IA					



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/16/16-7/17/16

 Project:
 2015-29; 19th Street

 WorkOrder:
 1607612

 Extraction Method:
 SW5030B

 Analytical Method:
 SW8021B/8015Bm

 Unit:
 µg/L

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
В-7	1607612-016A	Water	07/14/2016 GC3	123881
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND		50 1	07/16/2016 23:36
MTBE	ND		5.0 1	07/16/2016 23:36
Benzene	ND		0.50 1	07/16/2016 23:36
Toluene	ND		0.50 1	07/16/2016 23:36
Ethylbenzene	ND		0.50 1	07/16/2016 23:36
Xylenes	ND		1.5 1	07/16/2016 23:36
Surrogates	<u>REC (%)</u>		Limits	
aaa-TFT	95		70-130	07/16/2016 23:36
<u>Analyst(s):</u> LT			Analytical Comments: b1	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
В-8	1607612-017A	Water	07/14/2016 GC7	123883
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND		50 1	07/16/2016 21:17
MTBE	ND		5.0 1	07/16/2016 21:17
			0.50 1	07/16/2016 21:17
Benzene	ND			
Benzene Toluene	ND ND		0.50 1	07/16/2016 21:17
				07/16/2016 21:17 07/16/2016 21:17
Toluene	ND		0.50 1	
Toluene Ethylbenzene	ND ND		0.50 1 0.50 1	07/16/2016 21:17
Toluene Ethylbenzene Xylenes	ND ND ND		0.50 1 0.50 1 1.5 1	07/16/2016 21:17



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/16/16-7/17/16

 Project:
 2015-29; 19th Street

 WorkOrder:
 1607612

 Extraction Method:
 SW5030B

 Analytical Method:
 SW8021B/8015Bm

 Unit:
 µg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
В-9	1607612-018A	Water	07/14/20	16 GC7	123883
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		50	1	07/17/2016 15:02
MTBE	ND		5.0	1	07/17/2016 15:02
Benzene	ND		0.50	1	07/17/2016 15:02
Toluene	0.77		0.50	1	07/17/2016 15:02
Ethylbenzene	ND		0.50	1	07/17/2016 15:02
Xylenes	ND		1.5	1	07/17/2016 15:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	98		70-130		07/17/2016 15:02
<u>Analyst(s):</u> IA			Analytical Comr	<u>nents:</u> b1	



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder:	1607612
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead			
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch II
B7-1	1607612-001A	Soil	07/14/2016	ICP-MS3	123784
Analytes	<u>Result</u>		<u>RL DF</u>		Date Analyzed
Lead	5.1		0.50 1		07/19/2016 03:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/19/2016 03:47
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-10	1607612-003A	Soil	07/14/2016	ICP-MS3	123784
Analytes	Result		<u>RL DF</u>		Date Analyzed
Lead	1.7		0.50 1		07/19/2016 04:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/19/2016 04:12
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B7-15	1607612-004A	Soil	07/14/2016	ICP-MS3	123784
Analytes	<u>Result</u>		<u>RL DF</u>		Date Analyzed
Lead	2.0		0.50 1		07/19/2016 04:18
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/19/2016 04:18
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B8-1	1607612-006A	Soil	07/14/2016	ICP-MS3	123784
Analytes	Result		<u>RL</u> DF		Date Analyzed
Lead	9.7		0.50 1		07/19/2016 04:24
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Terbium	101		70-130		07/19/2016 04:24
<u>Analyst(s):</u> BBO					



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16

 Project:
 2015-29; 19th Street

WorkOrder:	1607612
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead			
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B8-10	1607612-008A	Soil	07/14/2016	ICP-MS3	123792
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	2.0		0.50 1		07/18/2016 19:26
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	106		70-130		07/18/2016 19:26
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B8-15	1607612-009A	Soil	07/14/2016	ICP-MS3	123792
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	2.3		0.50 1		07/19/2016 04:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	103		70-130		07/19/2016 04:30
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B9-10	1607612-013A	Soil	07/14/2016	ICP-MS3	123792
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	1.6		0.50 1		07/19/2016 03:41
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Terbium	104		70-130		07/19/2016 03:41
<u>Analyst(s):</u> BBO					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B9-15	1607612-014A	Soil	07/14/2016	ICP-MS3	123792
Analytes	Result		<u>RL</u> DF		Date Analyzed
Lead	2.5		0.50 1		07/19/2016 04:36
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Terbium	104		70-130		07/19/2016 04:36
<u>Analyst(s):</u> BBO					



 Client:
 Geosolve, Inc.

 Date Received:
 7/14/16 18:30

 Date Prepared:
 7/14/16-7/15/16

 Project:
 2015-29; 19th Street

WorkOrder:	1607612
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	µg/L

		Lea	d		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
В-7	1607612-016B	Water	07/14/2016	ICP-MS2	123731
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	280		50 100		07/19/2016 07:51
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	93		70-130		07/19/2016 07:51
<u>Analyst(s):</u> DB			Analytical Comments:	b1	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-8	1607612-017B	Water	07/14/2016	ICP-MS3	123798
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	440		50 100		07/19/2016 09:42
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
Terbium	97		70-130		07/19/2016 09:42
<u>Analyst(s):</u> DVH			Analytical Comments:	b1	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
В-9	1607612-018B	Water	07/14/2016	ICP-MS2	123731
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	34		5.0 10		07/19/2016 07:57
Surrogates	<u>REC (%)</u>		Limits		
Terbium	99		70-130		07/19/2016 07:57
<u>Analyst(s):</u> DB			Analytical Comments:	b1	



Client:	Geosolve, Inc.
Date Prepared:	7/14/16
Date Analyzed:	7/15/16
Instrument:	GC19
Matrix:	Soil
Project:	2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123785
Extraction Method:	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg
Sample ID:	MB/LCS-123785
	1607609-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result		RL	SPK Val		B SS LO REC %	CS REC	LCS Limits
TPH(btex)	ND	0.618		0.40	0.60	-	10	3	70-130
МТВЕ	ND	0.0945		0.050	0.10	-	95		70-130
Benzene	ND	0.100		0.0050	0.10	-	10	0	70-130
Toluene	ND	0.102		0.0050	0.10	-	10	2	70-130
Ethylbenzene	ND	0.104		0.0050	0.10	-	10	4	70-130
Xylenes	ND	0.314		0.015	0.30	-	10	4	70-130
Surrogate Recovery									
2-Fluorotoluene	0.105	0.102			0.10	10	5 10	2	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
	ND	ND		0.41	ND	ND		ND	

TPH(btex)	NR	NR	0.41	NR	NR	-	NR
MTBE	NR	NR	ND	NR	NR	-	NR
Benzene	NR	NR	ND	NR	NR	-	NR
Toluene	NR	NR	ND	NR	NR	-	NR
Ethylbenzene	NR	NR	ND	NR	NR	-	NR
Xylenes	NR	NR	ND	NR	NR	-	NR
Surrogate Recovery							
2-Fluorotoluene	NR	NR		NR	NR	-	NR

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Client:	Geosolve, Inc.
Date Prepared:	7/16/16
Date Analyzed:	7/16/16
Instrument:	GC3
Matrix:	Water
Project:	2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123881
Extraction Method:	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	μg/L
Sample ID:	MB/LCS-123881
	1607570-018AMS/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
МТВЕ	ND	8.58	5.0	10	-	86	70-130
Benzene	ND	10.4	0.50	10	-	104	70-130
Toluene	ND	9.33	0.50	10	-	93	70-130
Ethylbenzene	ND	10.6	0.50	10	-	105	70-130
Xylenes	ND	29.1	1.5	30	-	97	70-130
Surrogate Recovery							
aaa-TFT	9.46	9.22		10	95	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	64.4	61.2	60	ND	107	102	70-130	5.15	20
МТВЕ	9.17	9.18	10	ND	92	92	70-130	0	20
Benzene	10.1	10.3	10	ND	101	103	70-130	2.25	20
Toluene	9.88	9.74	10	ND	99	97	70-130	1.46	20
Ethylbenzene	10.2	10.0	10	ND	102	100	70-130	1.32	20
Xylenes	29.2	30.1	30	ND	97	100	70-130	2.85	20
Surrogate Recovery									
aaa-TFT	9.63	9.16	10		96	92	70-130	4.98	20

QA/QC Officer



Client:	Geosolve, Inc.
Date Prepared:	7/16/16
Date Analyzed:	7/16/16
Instrument:	GC7
Matrix:	Water
Project:	2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123883
Extraction Method:	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	μg/L
Sample ID:	MB/LCS-123883
-	1607570-014AMS/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	58.5	40	60	-	97	70-130
МТВЕ	ND	8.35	5.0	10	-	83	70-130
Benzene	ND	9.31	0.50	10	-	93	70-130
Toluene	ND	8.96	0.50	10	-	90	70-130
Ethylbenzene	ND	9.24	0.50	10	-	92	70-130
Xylenes	ND	28.4	1.5	30	-	95	70-130
Surrogate Recovery							
aaa-TFT	10.0	10.3		10	100	103	70-130

Analyte	MS	MSD	SPK	SPKRef	MS	MSD	MS/MSD	RPD	RPD
	Result	Result	Val	Val	%REC	%REC	Limits		Limit
TPH(btex)	58.3	61.0	60	ND	97	102	70-130	4.61	20
MTBE	8.98	9.38	10	ND	84	89	70-130	4.47	20
Benzene	9.47	9.93	10	ND	95	99	70-130	4.76	20
Toluene	8.87	9.38	10	ND	89	94	70-130	5.51	20
Ethylbenzene	9.21	9.72	10	ND	91	96	70-130	5.33	20
Xylenes	28.2	30.2	30	ND	94	101	70-130	6.88	20
Surrogate Recovery									
aaa-TFT	10.4	10.3	10		104	103	70-130	0.584	20

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WorkOrder:	1607612
BatchID:	123784
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS-123784
	1607600-001AMS/MSD

QC Summary Report for Metals									
Analyte	MB Result	LCS Result		RL	SPK Val			CS REC	LCS Limits
Lead	ND	48.1		0.50	50	-	90	6	75-125
Surrogate Recovery									
Terbium	520	531			500	1(04 10	06	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSE Limits) RPD	RPD Limit
Lead	60.9	63.5	50	13.71	94	100	75-125	4.10	20
Surrogate Recovery									
Terbium	519	560	500		104	112	70-130	7.49) 20
Analyte	DLT Result			DLTRef Val				%D	%D Limit
Lead	14.0			13.71				2.12	20

_____QA/QC Officer

Client:	Geosolve, Inc.
Date Prepared:	7/14/16
Date Analyzed:	7/18/16
Instrument:	ICP-MS3
Matrix:	Soil
Project:	2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123792
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS-123792
	1607612-008AMS/MSD

	QC Sur	nmary R	eport fo	or Metals					
Analyte	MB Result	LCS Result		RL	SPK Val			CS 6REC	LCS Limits
Lead	ND	49.1		0.50	50	-	9	8	75-125
Surrogate Recovery									
Terbium	510	518			500	1()2 1	04	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSI Limits	D RPD	RPD Limit
Lead	52.5	52.1	50	2.039	101	100	75-125	0.72	6 20
Surrogate Recovery									
Terbium	520	526	500		104	105	70-130	1.01	20
Analyte	DLT Result			DLTRef Val				%D	%D Limit
Lead	ND<2.5			2.039				-	-

QA/QC Officer Page 17 of 25

Client:	Geosolve, Inc.
Date Prepared:	7/13/16
Date Analyzed:	7/14/16
Instrument:	ICP-MS3
Matrix:	Water
Project:	2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123731
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS-123731
	1607564-003AMS/MSD

	QC Sur	nmary R	eport f	or Metals					
Analyte	MB Result	LCS Result		RL	SPK Val			CS SREC	LCS Limits
Lead	ND	50.8		0.50	50	-	1	02	85-115
Surrogate Recovery									
Terbium	780	789			750	10	04 1	05	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSI Limits	D RPD	RPD Limit
Lead	51.9	52.1	50	ND	103	103	75-125	0	20
Surrogate Recovery									
Terbium	822	819	750		110	109	70-130	0.39	90 20
Analyte	DLT Result			DLTRef Val				%D	%D Limit
Lead	ND<2.5			ND				-	-

_____QA/QC Officer

Geosolve, Inc.
7/15/16
7/18/16
ICP-MS2
Water
2015-29; 19th Street

WorkOrder:	1607612
BatchID:	123798
Extraction Method:	E200.8
Analytical Method:	E200.8
Unit:	μg/L
Sample ID:	MB/LCS-123798
	1607618-001BMS/MSD

	QC Sur	nmary R	eport fo	or Metals					
Analyte	MB Result	LCS Result		RL	SPK Val			_CS %REC	LCS Limits
Lead	ND	47.8		0.50	50	-	ę	96	85-115
Surrogate Recovery									
Terbium	732	728			750	98	3 9	97	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MS Limits	D RPD	RPD Limit
Lead	52.3	53.0	50	5.190	94	96	75-125	1.35	20
Surrogate Recovery									
Terbium	722	743	750		96	99	70-130	2.96	5 20
Analyte	DLT Result			DLTRef Val				%D	%D Limit
Lead	ND<25			5.190				-	-

_____QA/QC Officer

McCampbell Analytical, Inc.



Report to:

Lab ID

1607612-001

Rob Campbell

Geosolve. Inc.

(925) 963-1198

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1607612 ClientCode: GSP EDF WriteOn EQuIS □HardCopy ThirdParty □WaterTrax Excel Email □J-flag Bill to: Requested TAT: 5 days; Email: rcampbell@geosolve-inc.com Lisa Campbell cc/3rd Party: Geosolve. Inc. Date Received: 07/14/2016 PO: 1807 Santa Rita Road, Suite D-165 1807 Santa Rita Road, Suite D-165 Pleasanton, CA 94566 ProjectNo: 2015-29; 19th Street Pleasanton, CA 94566 Date Logged: 07/14/2016 FAX: lcampbell@geosolve-inc.com Requested Tests (See legend below) Client ID Matrix Collection Date Hold 2 3 4 5 6 7 8 10 11 12 1 9 7/14/2016 B7-1 Soil Δ Δ

1007012-001	D7-1	501	1/14/2010	~		~				
1607612-003	B7-10	Soil	7/14/2016	Α		Α				
1607612-004	B7-15	Soil	7/14/2016	Α		Α				
1607612-006	B8-1	Soil	7/14/2016	Α		Α				
1607612-008	B8-10	Soil	7/14/2016	Α		Α				
1607612-009	B8-15	Soil	7/14/2016	Α		Α				
1607612-011	B9-1	Soil	7/14/2016	Α						
1607612-013	B9-10	Soil	7/14/2016	А		А				
1607612-014	B9-15	Soil	7/14/2016	Α		Α				
1607612-016	B-7	Water	7/14/2016		Α		В			
1607612-017	B-8	Water	7/14/2016		Α		В			
1607612-018	B-9	Water	7/14/2016		Α		В			

Test Legend:

1	G-MBTEX_S
5	
9	

2	G-MBTEX_W
6	
10	

3	PBMS_TTLC_S
7	
11	

4	PBMS_TTLC_W
8	
12	

Prepared by: Alexandra Iniguez

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.	QC Level: LEVEL 2	Work Order:	1607612
Project:	2015-29; 19th Street	Client Contact: Rob Campbell	Date Logged:	7/14/2016
Comments:		Contact's Email: rcampbell@geosolve-inc.com		

		WaterTrax	WriteOn EDF	Excel	Fax Fmail	HardC	opy ThirdPart	y 🗌	l-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1607612-001A	B7-1	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-002A	B7-5	Soil		1	Acetate Liner		7/14/2016		✓
1607612-003A	B7-10	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-004A	B7-15	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-005A	B7-20	Soil		1	Acetate Liner		7/14/2016		✓
1607612-006A	B8-1	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-007A	B8-5	Soil		1	Acetate Liner		7/14/2016		
1607612-008A	B8-10	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-009A	B8-15	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days	
			SW8021B/8015Bm (G/MBTEX)					5 days	
1607612-010A	B8-20	Soil		1	Acetate Liner		7/14/2016		✓

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; 19th Street Comments: QC Level: LEVEL 2 Client Contact: Rob Campbell

Contact's Email: rcampbell@geosolve-inc.com

Work Order: 1607612 **Date Logged:** 7/14/2016

		WaterTrax		Excel]Fax ∠Email	HardC	opy ThirdPar	ty 🗌	J-flag	
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	ТАТ	Sediment Content	Hold SubOut
1607612-011A	B9-1	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner		7/14/2016	5 days		
1607612-012A	B9-5	Soil		1	Acetate Liner		7/14/2016			✓
1607612-013A	B9-10	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days		
			SW8021B/8015Bm (G/MBTEX)					5 days		
1607612-014A	B9-15	Soil	SW6020 (Lead)	1	Acetate Liner		7/14/2016	5 days		
			SW8021B/8015Bm (G/MBTEX)					5 days		
1607612-015A	B9-20	Soil		1	Acetate Liner		7/14/2016			✓
1607612-016A	B-7	Water	SW8021B/8015Bm (G/MBTEX)	3	VOA w/ HCl		7/14/2016	5 days	25%+	
1607612-016B	B-7	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3		7/14/2016	5 days	25%+	
1607612-017A	B-8	Water	SW8021B/8015Bm (G/MBTEX)	3	VOA w/ HCl		7/14/2016	5 days	30%+	
1607612-017B	B-8	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3		7/14/2016	5 days	75%+	
1607612-018A	B-9	Water	SW8021B/8015Bm (G/MBTEX)	3	VOA w/ HCl		7/14/2016	5 days	10%+	
1607612-018B	B-9	Water	E200.8 (Lead)	1	250mL HDPE w/ HNO3		7/14/2016	5 days	10%+	

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.

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SAMPLE ID	Location/			ers	ter		ater								9	H as	TPH as Diesel (8015)) uni	um I	8 / 80	82 P(141 (ľ	151 (/	524/	525/	WI/8	tals (2	als (2	3 / 60	sam	4	P		
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Sample Receipt Checklist

Client Name:	Geosolve, Inc.			Date and Time Received:	7/14/2016 18:30
Project Name:	2015-29; 19th Street			Date Logged:	7/14/2016
WorkOrder №:	1607612 Matrix: <u>Soil/Water</u>			Received by:	Alexandra Iniguez
Carrier:	<u>Benjamin Yslas (MAI Courier)</u>			Logged by:	Alexandra Iniguez
	Chain of C	ustody	<u> (COC) I</u>	nformation	
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 note	d by Client on COC?	Yes	✓	No 🗌	
Date and Time o	f collection noted by Client on COC?	Yes	✓	No 🗌	
Sampler's name	noted on COC?	Yes	✓	No 🗌	
	Sampl	e Rece	eipt Infor	mation	
Custody seals in	tact on shipping container/cooler?	Yes	✓	No 🗌	
Shipping contain	er/cooler in good condition?	Yes	✓	No 🗌	
Samples in prope	er containers/bottles?	Yes	✓	No 🗌	
Sample containe	rs intact?	Yes	✓	No 🗌	
Sufficient sample	e volume for indicated test?	Yes	✓	No 🗌	
	Sample Preservation	on and	Hold Tir	ne (HT) Information	
All samples rece	ived within holding time?	Yes	✓	No 🗌	
Sample/Temp Bl	ank temperature		Temp	2.1°C	
Water - VOA vial	s have zero headspace / no bubbles?	Yes	✓	No 🗌	
Sample labels ch	necked for correct preservation?	Yes	✓	No 🗌	
pH acceptable up	oon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes		No 🖌	
Samples Receive		Yes	✓	No 🗌	
	(Ice Type	e: WE	TICE)	
UCMR3 Samples	—				
Total Chlorine	tested and acceptable upon receipt for EPA 522?	Yes		No 🗌	NA 🗹
Free Chlorine t 300.1, 537, 539	ested and acceptable upon receipt for EPA 218.7, 9?	Yes		No 🗌	NA 🗹

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