APPENDIX D2

Soil Quality Investigation

June 9, 2020

Via E-mail

OOL, LLC
152 Commercial Street
Sunnyvale, CA 94086

Attention: Mr. Marshall Goldman

Letter Report
Soil Quality Investigation
Undeveloped Parcel
APN 237-03-044
Old Oakland Road
San Jose, CA

Dear Mr. Goldman:

1.0 INTRODUCTION

GEOLOGICA Inc. (GEOLOGICA) is pleased to submit this Letter Report describing a Soil Quality Investigation conducted at the above-referenced undeveloped property in San Jose, CA (the "property"). Work was conducted in general accordance with our proposal to OOL, LLC, dated February 12, 2020. We understand that OOL, LLC is considering developing the property with two office buildings and surface parking for commercial use. The Site location is shown on **Figure 1**.

This Letter Report presents a summary of the methodologies employed, a tabulation of the analytical results, a map showing sampling locations, copies of the original laboratory reports, a discussion of the data, conclusions, and recommendations.

2.0 BACKGROUND

The following summarizes relevant observations and recommendations of the draft GEOLOGICA (2019) Phase I ESA report:

- The property is situated on the west side of Old Oakland Road, approximately 600 feet north of Brokaw Road, in San Jose, California. The Assessor's parcel

number for the property is 237-03-044. The property is an irregularly shaped undeveloped lot comprising 2.1 acres.

- The elevation at the site is approximately 50 ft msl and regional topography slopes gently to the north. The nearest surface water body is Coyote Creek, approximately ½ mile to the west. Surficial sediments in the site vicinity have been classified as flood plain deposits composed of mixtures of sand, silt, and clay. There was no site-specific information available about groundwater; the depth to groundwater at an adjacent site was reported to range from 6-8 ft bgs in 1993.

- The site is an undeveloped parcel with a dense cover of wild grasses, weeds, and other annuals that stand waist to neck high. There are also some mature trees in the southwest corner of the lot and in the triangular section in the northwest. An area of old pavement was noted in the west-central part of the site, and a rectangular building slab was observed in the northwest corner adjacent to a large palm tree. The building slab is believed to be that of an inferred small barn that was evident on historical aerial photos. Three piles of soil were noted in the southwest corner of the site, in the central west section, and in the triangular northwest section, respectively.

- No potential hazardous materials were observed at the site. There were no ASTs, USTs, or other types of fixed chemical containment structures. No clarifiers, sumps, drywells, discharge areas, discolored soils, pools of liquid, odors, water wells, monitoring wells, or septic tanks were observed. No evidence of distressed vegetation was noted.

- The available historical records indicate that the site has never been developed but was used for agricultural purposes. The site was part of an orchard from before 1937 until the early 1970s. The orchard was removed in the early 1970s and the site was then a cultivated field until the 1990s. The site apparently remained vacant after that. An inferred barn was present in the northwest corner of the site from the 1950s until the early 1990s. The barn is believed to have been part of the farm residence that bordered the north side of the site throughout the period of record.

No specific additional investigation or Phase II work was recommended. However, given the presence of soil piles from an unknown source, and the past agricultural use of the site, it was considered prudent to collect samples of near-surface soils to test for potential contaminants and agricultural chemicals. This Soil Quality Investigation report was developed in response to the latter suggestion.

The Scope of Work for completed tasks is presented below.

3.0 SCOPE OF WORK

Our approved Scope of Work included the following four tasks:

TASK 1: PRELIMINARY FIELD ACTIVITIES. Prior to conducting field activities, GEOLOGICA contracted with an accredited laboratory and scheduled field activities. GEOLOGICA coordinated with appropriate site personnel to arrange site access and mark sampling locations and contacted Underground Services Alert (USA) to help establish the approximate location of subsurface utilities within the area investigated.

TASK 2: SOIL SAMPLING. GEOLOGICA advanced shallow (3 ft) hand auger soil borings at five (5) locations across the property. The number of borings was based on Department of Toxic Substances Control (DTSC) guidance for assessing the chemical characteristics of a potential borrow soil source. That is, as this parcel was considered as a source of fill material, DTSC recommends collecting a minimum of 1 sample per 0.5 acres to characterize soil chemical conditions for parcels between 2 and 4 acres in size (DTSC, 2001). Discrete soil samples were collected at depths of 0.5, 1.5 and 3 ft below ground surface (bgs) at each location. A minimum of 8 ounces of soil were collected at each discrete sample location/depth to allow for analysis for multiple constituents as needed. In addition, one 4-point composite was collected at each of the 3 soil piles for testing. Sampling locations are illustrated on **Figure 2**.

Soil samples were collected for comparison to the commercial industrial RWQCB Environmental Screening Levels (ESLs) for direct contact/ingestion. The uppermost soil sample at each location was submitted for the laboratory analyses specified in **Table 1**; lower samples were archived for possible additional testing pending review of surficial sampling results.

After collecting samples, the borings were backfilled with cuttings and staked.

TASK 3: LABORATORY TESTING PROGRAM. GEOLOGICA engaged a California-certified laboratory for testing. Up to three soil samples from each boring were submitted for possible laboratory testing. The uppermost sample at each location was analyzed first. Due to results of initial testing at one location (HA-5), one selected deeper sample was tested to assess the depth of impacts to soil. The shallow samples were analyzed using standard EPA methodology as follows:

- To assess the presence of heavy metals, including lead arsenate pesticide residues, soil samples were tested for CAM 17 metals by EPA Method 6010B.

- To assess the presence of chlorinated pesticides, soil samples were analyzed for chlorinated pesticides by EPA Method 8081.

- To assess the presence of residual petroleum hydrocarbons, soil samples were analyzed for total petroleum hydrocarbons as gas, diesel, and motor oil by EPA Method 8015m.

Soil sample results are reported on a dry weight basis in **Table 1**.

TASK 4: DATA INTERPRETATION AND LETTER REPORT. The results of the soil quality investigation are summarized in this letter report. The report includes: a summary of the methodologies employed, a tabulation of the analytical results, a map showing sampling locations, copies of the original laboratory reports, a discussion of the data, conclusions, and recommendations.

4.0 RESULTS

Analytical results for soil are summarized in **Table 1**. Results were compared to the 2019 Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for Shallow Soil, Direct Exposure (Table S-1), Commercial / Industrial land use. Laboratory analytical reports are provided in **Attachment A**.

4.1 Soil Lithology

Soils encountered during the investigation consisted of clayey silts and silty clays.

4.2 Soil Testing Results

With the exception of the metal arsenic, none of the constituents tested were detected in any samples at concentrations exceeding the RWQCB ESLs for commercial / industrial land use. Arsenic was generally detected at levels considered to be within the range of naturally occurring background levels and is not considered a concern. The following sections present a brief description of the results by constituent type.

Total Petroleum Hydrocarbons (TPH) – No TPH as gasoline was detected in any of the soil samples tested. Low levels of TPH as diesel and TPH as motor oil were detected in all but one sample (HA-2-05').

Organochlorine Pesticides (OCP) - Low levels of the organochlorine pesticides 4,4-DDD, 4,4-DDE, and 4,4-DDT were detected in every soil sample tested, apparently reflecting former background levels associated with historic agricultural activities in the region. Levels were consistently well below the RWQCB ESLs. Several other OCPs, including chlordane and dieldrin, were detected sporadically at low levels.

Metals - As noted above, arsenic was detected above the ESLs in all samples tested, generally at levels within the range of naturally occurring background. None of the other metals tested, including lead, were detected at concentrations exceeding the RWQCB ESLs for commercial / industrial use.

5.0 DISCUSSION & CONCLUSIONS

Soil detections did not indicate significant impacts to shallow soil related to previous agricultural practices or other historic activities at the subject property. Arsenic concentrations were generally indicative of natural background levels in the bay area. No further investigation or remediation is considered necessary given the future planned development of the property as an office park.

We would be happy to discuss this report at your convenience. Should you have any questions about this report, please don't hesitate to call Brian at (415) 722-3629.

Sincerely,

GEOLOGICA INC.

Daniel W. Matthews, P.G.
Associate Hydrogeologist

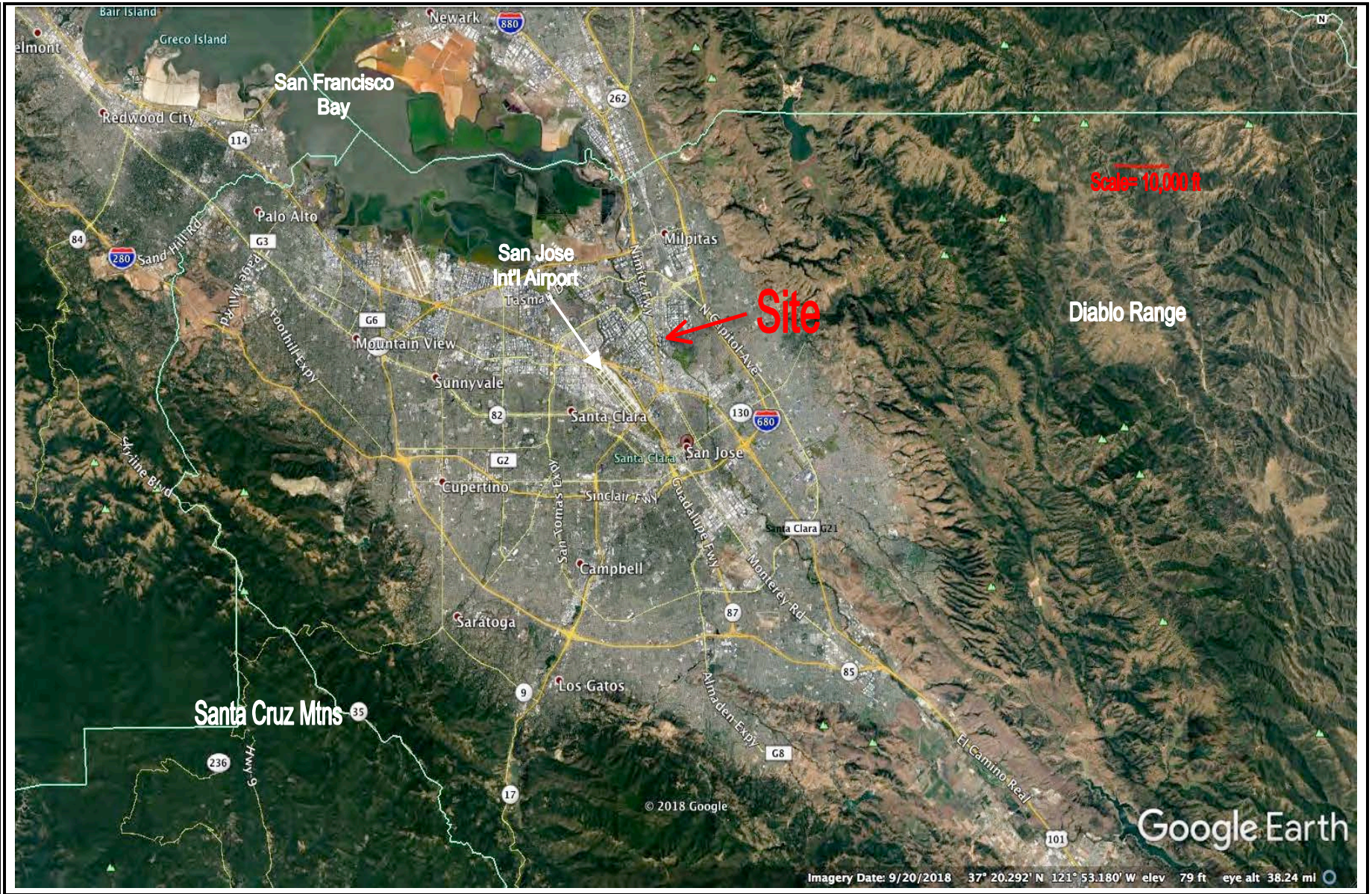
Brian F. Aubry, R.G., C.E.G., C.Hg.
Principal

Attachments:

Figure 1 – Site Location Map
Figure 2 – March 2020 Sampling Locations

Table 1 – Summary of Soil Sample Analytical Results

Attachment A – Laboratory Testing Reports



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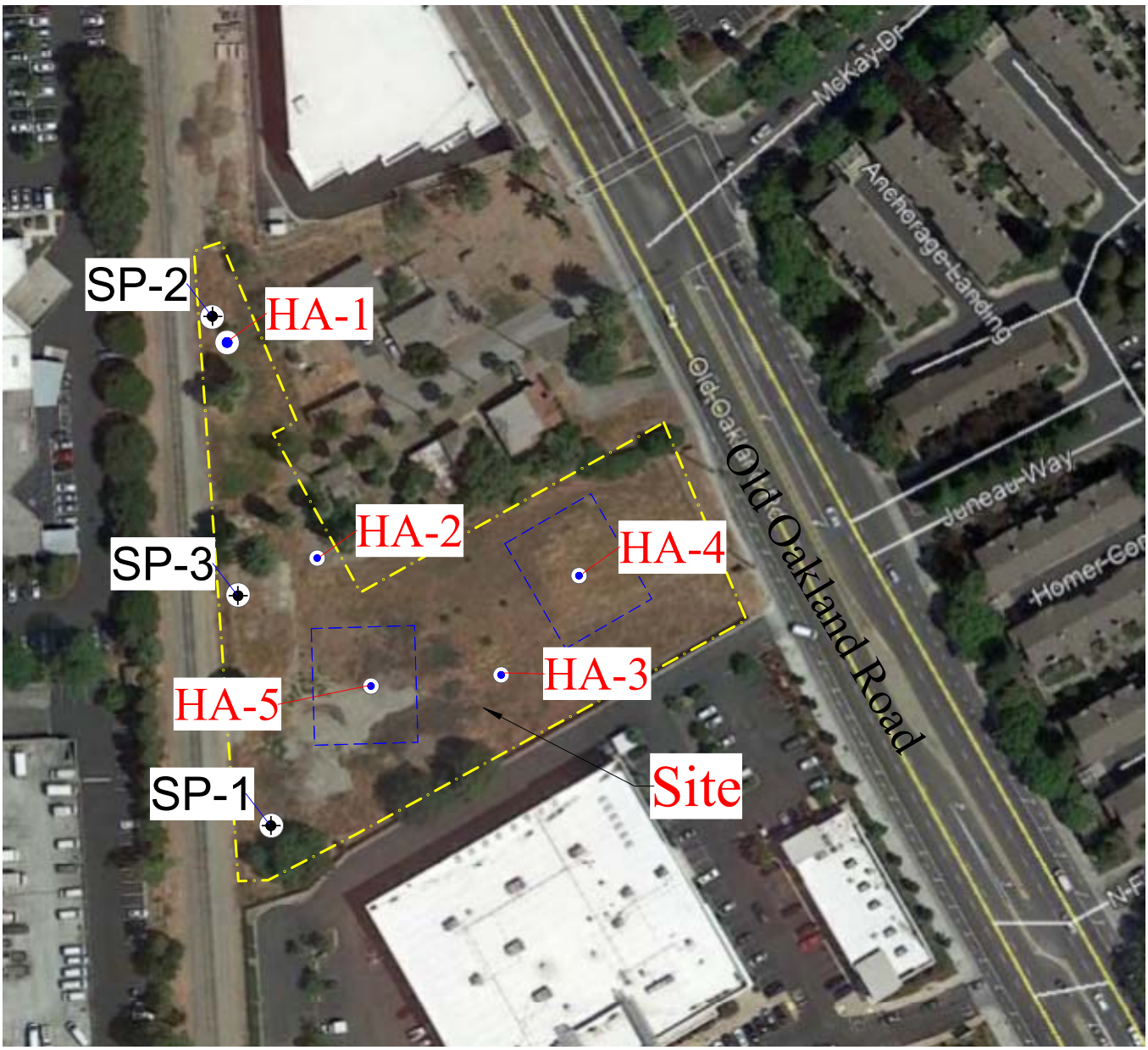
Site Location Map
APN 237-03-044
San Jose, California

FIGURE 1

geologica



N

Approximate Scale in feet

0 125

Key

Property Line

Hand Auger Soil Sampling Location (HA-3)

Soil Stockpile Composite Sample Location (SP-3)

Approximate Future Building Location

geologica San Francisco, CA	**Vacant Property** APN 237-03-044 San Jose, California	**Figure 2** March 2020 Soil Sampling Locations

Table 1
Summary of Soil Sample Analytical Results
Undeveloped Parcel (APN 237-03-044), Old Oakland Road
San Jose, CA

Method	Analyte	Units	HA-1-0.5'	HA-2-0.5'	HA-3-0.5'	HA-4-0.5'	HA-5-0.5'	HA-5-1.5' [5]	SP-1	SP-2	SP-3[5]	SFB RWQCB Direct Exposure Human Health Risk Levels (Table S-1)[1]
Depth, feet BGS			0.5	0.5	0.5	0.5	0.5	1.5	4-point composite	4-point composite	4-point composite	
Date Sampled			3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	**Commercial/ Industrial**
	Total Petroleum Hydrocarbons											
8260B	Gasoline Range Organics (GRO)-C4-C12	µg/kg	ND<280	ND<270	ND<270	ND<260	ND<280	--	ND<270	ND<260	ND<270	2,000,000
8015B	Diesel Range Organics [C10-C28]	mg/kg	**14**	**9.7**	**36**	**91**	**22**	--	**110**	**190**	**220**	1,200
	Motor Oil Range Organics [C24-C36]	mg/kg	**60**	ND<57	**270**	**520**	**96**	--	**360**	**650**	**810**	180,000
	Organochlorine Pesticides											
8081A	4,4'-DDD	µg/kg	**12**	**87**	**24**	**19**	**160**	**3.2**	**34**	**45**	**390**	12,000
	4,4'-DDE	µg/kg	**27**	**440**	**310**	**220**	**2,700**	**180**	**790**	**12**	**660**	8,300
	4,4'-DDT	µg/kg	**16**	**14**	**31**	**12**	**70**	**16**	**180**	**38**	**250**	8,500
	Aldrin	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	150
	alpha-BHC	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	beta-BHC	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	Chlordane (technical)	µg/kg	ND<45	ND<220	ND<43	ND<85	ND<480	ND<38	ND<220	**94**	ND<8.7	2,200
	cis-Chlordane	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	**15**	**13**	**9.1**	--
	delta-BHC	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	Dieldrin	µg/kg	ND<2.3	ND<11	**5**	ND<4.3	ND<24	ND<1.9	ND<11	**4.4**	**14**	160
	Endosulfan I	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	5,800,000
	Endosulfan II	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	5,800,000
	Endosulfan sulfate	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	Endrin	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	290,000
	Endrin aldehyde	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	Endrin ketone	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	--
	gamma-BHC (Lindane)	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	2,500
	Heptachlor	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	530
	Heptachlor epoxide	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	280
	Methoxychlor	µg/kg	ND<2.3	ND<11	ND<2.1	ND<4.3	ND<24	ND<1.9	ND<11	ND<4.2	ND<8.7	4,800,000
	Toxaphene	µg/kg	ND<45	ND<220	ND<43	ND<85	ND<480	ND<38	ND<220	ND<84	ND<170	2,200
	trans-Chlordane	µg/kg	**2.7**	ND<11	**10**	ND<4.3	ND<24	ND<1.9	**30**	**15**	**28**	--
	Metals											
6020B	Antimony	mg/kg	ND<2.4	ND<2.4	ND<2.2	ND<2.1	ND<2.5	--	**2.5**	ND<2.1	ND<2.2	160
	Arsenic	mg/kg	**26**	**24**	**6.9**	**7.6**	**20**	**--**	**13**	**17**	**68**	0.31
	Barium	mg/kg	**210**	**200**	**170**	**150**	**180**	**--**	**150**	**120**	**160**	220,000
	Beryllium	mg/kg	**0.6**	**0.48**	**0.58**	**0.35**	**0.56**	**--**	**0.36**	**0.25**	**0.4**	230
	Cadmium	mg/kg	ND<0.24	**0.98**	ND<0.22	ND<0.21	**0.27**	**--**	**0.6**	**0.44**	**1.2**	1,100
	Chromium	mg/kg	**66**	**57**	**100**	**44**	**64**	**--**	**57**	**55**	**47**	1,800,000 (Cr III)
	Cobalt	mg/kg	**15**	**14**	**16**	**9.7**	**15**	**--**	**12**	**11**	**10**	350
	Copper	mg/kg	**40**	**47**	**31**	**30**	**50**	**--**	**47**	**45**	**46**	47,000
	Lead	mg/kg	**18**	**81**	**12**	**18**	**86**	**--**	**110**	**53**	**80**	320
	Molybdenum	mg/kg	ND<2.4	ND<2.4	ND<2.2	ND<2.1	ND<2.5	**--**	ND<2.3	ND<2.1	ND<2.2	5,800
	Nickel	mg/kg	**96**	**84**	**160**	**62**	**97**	**--**	**82**	**83**	**67**	11,000
	Selenium	mg/kg	ND<2.4	ND<2.4	ND<2.2	ND<2.1	ND<2.5	--	ND<2.3	ND<2.1	ND<2.2	5,800
	Silver	mg/kg	ND<0.6	ND<0.59	ND<0.55	ND<0.53	ND<0.62	--	ND<0.58	ND<0.51	**1.8**	5,800
	Thallium	mg/kg	ND<2.4	ND<2.4	ND<2.2	ND<2.1	ND<2.5	--	ND<2.3	ND<2.1	ND<2.2	12
	Vanadium	mg/kg	**47**	**44**	**46**	**41**	**46**	**--**	**40**	**38**	**38**	5,800
	Zinc	mg/kg	**87**	**110**	**53**	**58**	**93**	**--**	**130**	**96**	**240**	350,000
7471A	Mercury	mg/kg	**0.10**	**0.08**	**0.07**	**0.07**	**0.11**	**--**	**0.27**	**0.11**	**0.14**	190

Notes:

1) RWQCB Environmental Screening Levels (ESLs) for Soil, Direct Exposure Human Health Risk Levels (Table S-1) Commercial/Industrial: Shallow Soil Exposure (2019, rev 2., revised July 25, 2019)

2) ND<2.4 = Not detected above listed method reporting limit.

3) 81 = Sample result exceeds Commercial/Industrial Direct Exposure ESL.

4) -- = Not analyzed or not established.

5) Sample analyzed outside of holding time.

ATTACHMENT A

Laboratory Analytical Testing Reports

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-97726-1
Client Project/Site: Oakland Road

For:
Geologica Inc
5 Third St., Suite 808
San Francisco, California 94103

Attn: Brian Aubry

Authorized for release by:
3/18/2020 10:19:34 AM

Justinn Gonzales, Project Manager I
(925)484-1919
justinn.gonzales@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Job ID: 720-97726-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-97726-1

Comments
No additional comments.

Receipt
The samples were received on 3/10/2020 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for cis-Chlordane for the following sample: SP-1 (720-97726-16). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for trans-Chlordane for the following samples: HA-1-0.5' (720-97726-1) and SP-2 (720-97726-17). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: HA-4-0.5' (720-97726-10) and SP-2 (720-97726-17). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following sample required a dilution due to the nature of the sample matrix: HA-5-0.5' (720-97726-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-364237 and analytical batch 320-364921 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-1-0.5' — Lab Sample ID: 720-97726-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	14		2.2		mg/Kg	1	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	60		56		mg/Kg	1	☼	8015B	Total/NA
4,4'-DDT	16		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDE	27		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	12		2.3		ug/Kg	1	☼	8081A	Total/NA
trans-Chlordane	2.7	p	2.3		ug/Kg	1	☼	8081A	Total/NA
Arsenic	26		2.4		mg/Kg	1	☼	6010B	Total/NA
Barium	210		1.2		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24		mg/Kg	1	☼	6010B	Total/NA
Cobalt	15	F1	0.60		mg/Kg	1	☼	6010B	Total/NA
Chromium	66		0.60		mg/Kg	1	☼	6010B	Total/NA
Copper	40		1.8		mg/Kg	1	☼	6010B	Total/NA
Nickel	96		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	18		1.2		mg/Kg	1	☼	6010B	Total/NA
Vanadium	47		0.60		mg/Kg	1	☼	6010B	Total/NA
Zinc	87		2.4		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.096		0.048		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: HA-2-0.5' — Lab Sample ID: 720-97726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.7		2.3		mg/Kg	1	☼	8015B	Total/NA
4,4'-DDT	14		11		ug/Kg	5	☼	8081A	Total/NA
4,4'-DDE	440		11		ug/Kg	5	☼	8081A	Total/NA
4,4'-DDD	87		11		ug/Kg	5	☼	8081A	Total/NA
Arsenic	24		2.4		mg/Kg	1	☼	6010B	Total/NA
Barium	200		1.2		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.24		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.98		0.24		mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.59		mg/Kg	1	☼	6010B	Total/NA
Chromium	57		0.59		mg/Kg	1	☼	6010B	Total/NA
Copper	47		1.8		mg/Kg	1	☼	6010B	Total/NA
Nickel	84		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	81		1.2		mg/Kg	1	☼	6010B	Total/NA
Vanadium	44		0.59		mg/Kg	1	☼	6010B	Total/NA
Zinc	110		2.4		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.075		0.046		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: HA-3-0.5' — Lab Sample ID: 720-97726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	36		2.2		mg/Kg	1	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	270		55		mg/Kg	1	☼	8015B	Total/NA
Dieldrin	5.0		2.1		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDT	31		2.1		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDE	310		2.1		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	24		2.1		ug/Kg	1	☼	8081A	Total/NA
trans-Chlordane	10		2.1		ug/Kg	1	☼	8081A	Total/NA
Arsenic	6.9		2.2		mg/Kg	1	☼	6010B	Total/NA
Barium	170		1.1		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22		mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.55		mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HA-3-0.5' (Continued)

Lab Sample ID: 720-97726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	100		0.55		mg/Kg	1	☼	6010B	Total/NA
Copper	31		1.7		mg/Kg	1	☼	6010B	Total/NA
Nickel	160		1.1		mg/Kg	1	☼	6010B	Total/NA
Lead	12		1.1		mg/Kg	1	☼	6010B	Total/NA
Vanadium	46		0.55		mg/Kg	1	☼	6010B	Total/NA
Zinc	53		2.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.065		0.044		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: HA-4-0.5'

Lab Sample ID: 720-97726-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	91		21		mg/Kg	10	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	520		510		mg/Kg	10	☼	8015B	Total/NA
4,4'-DDT	12		4.3		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDE	220		4.3		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDD	19		4.3		ug/Kg	2	☼	8081A	Total/NA
Arsenic	7.6		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	150		1.1		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.35		0.21		mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.53		mg/Kg	1	☼	6010B	Total/NA
Chromium	44		0.53		mg/Kg	1	☼	6010B	Total/NA
Copper	30		1.6		mg/Kg	1	☼	6010B	Total/NA
Nickel	62		1.1		mg/Kg	1	☼	6010B	Total/NA
Lead	18		1.1		mg/Kg	1	☼	6010B	Total/NA
Vanadium	41		0.53		mg/Kg	1	☼	6010B	Total/NA
Zinc	58		2.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.072		0.044		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: HA-5-0.5'

Lab Sample ID: 720-97726-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		2.4		mg/Kg	1	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	96		59		mg/Kg	1	☼	8015B	Total/NA
4,4'-DDT	70		24		ug/Kg	10	☼	8081A	Total/NA
4,4'-DDE	2700		24		ug/Kg	10	☼	8081A	Total/NA
4,4'-DDD	160		24		ug/Kg	10	☼	8081A	Total/NA
Arsenic	20		2.5		mg/Kg	1	☼	6010B	Total/NA
Barium	180		1.2		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.25		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.25		mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.62		mg/Kg	1	☼	6010B	Total/NA
Chromium	64		0.62		mg/Kg	1	☼	6010B	Total/NA
Copper	50		1.9		mg/Kg	1	☼	6010B	Total/NA
Nickel	97		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	86		1.2		mg/Kg	1	☼	6010B	Total/NA
Vanadium	46		0.62		mg/Kg	1	☼	6010B	Total/NA
Zinc	93		2.5		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.11		0.049		mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: SP-1

Lab Sample ID: 720-97726-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		4.3		mg/Kg	2	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	360		110		mg/Kg	2	☼	8015B	Total/NA
4,4'-DDT	180		11		ug/Kg	5	☼	8081A	Total/NA
4,4'-DDE	790		11		ug/Kg	5	☼	8081A	Total/NA
4,4'-DDD	34		11		ug/Kg	5	☼	8081A	Total/NA
cis-Chlordane	15	p	11		ug/Kg	5	☼	8081A	Total/NA
trans-Chlordane	30		11		ug/Kg	5	☼	8081A	Total/NA
Arsenic	13		2.3		mg/Kg	1	☼	6010B	Total/NA
Barium	150		1.2		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.23		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.60		0.23		mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.58		mg/Kg	1	☼	6010B	Total/NA
Chromium	57		0.58		mg/Kg	1	☼	6010B	Total/NA
Copper	47		1.8		mg/Kg	1	☼	6010B	Total/NA
Nickel	82		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	110		1.2		mg/Kg	1	☼	6010B	Total/NA
Antimony	2.5		2.3		mg/Kg	1	☼	6010B	Total/NA
Vanadium	40		0.58		mg/Kg	1	☼	6010B	Total/NA
Zinc	130		2.3		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.27		0.044		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: SP-2

Lab Sample ID: 720-97726-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	190		9.9		mg/Kg	5	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	650		250		mg/Kg	5	☼	8015B	Total/NA
Dieldrin	4.4		4.2		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDT	38		4.2		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDE	12		4.2		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDD	45		4.2		ug/Kg	2	☼	8081A	Total/NA
Chlordane (technical)	94		84		ug/Kg	2	☼	8081A	Total/NA
cis-Chlordane	13		4.2		ug/Kg	2	☼	8081A	Total/NA
trans-Chlordane	15	p	4.2		ug/Kg	2	☼	8081A	Total/NA
Arsenic	17		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	120		1.0		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.21		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.44		0.21		mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.51		mg/Kg	1	☼	6010B	Total/NA
Chromium	55		0.51		mg/Kg	1	☼	6010B	Total/NA
Copper	45		1.5		mg/Kg	1	☼	6010B	Total/NA
Nickel	83		1.0		mg/Kg	1	☼	6010B	Total/NA
Lead	53		1.0		mg/Kg	1	☼	6010B	Total/NA
Vanadium	38		0.51		mg/Kg	1	☼	6010B	Total/NA
Zinc	96		2.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.11		0.041		mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HA-1-0.5'

Date Collected: 03/10/20 10:55
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-1

Matrix: Solid
Percent Solids: 84.0

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		280		ug/Kg	☼	03/11/20 08:14	03/11/20 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*	*03/11/20 08:14*	*03/11/20 12:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*03/11/20 08:14*	*03/11/20 12:38*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*03/11/20 08:14*	*03/11/20 12:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		2.2		mg/Kg	☼	03/11/20 08:53	03/11/20 21:25	1
Motor Oil Range Organics [C24-C36]	**60**		56		mg/Kg	☼	03/11/20 08:53	03/11/20 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*52*		*40 - 130*	*03/11/20 08:53*	*03/11/20 21:25*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Dieldrin	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endrin aldehyde	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endrin	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endrin ketone	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Heptachlor	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Heptachlor epoxide	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
4,4'-DDT	**16**		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
4,4'-DDE	**27**		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
4,4'-DDD	**12**		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endosulfan I	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endosulfan II	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
alpha-BHC	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
beta-BHC	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
gamma-BHC (Lindane)	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
delta-BHC	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Endosulfan sulfate	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Methoxychlor	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Toxaphene	ND		45		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
Chlordane (technical)	ND		45		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
cis-Chlordane	ND		2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1
trans-Chlordane	**2.7**	**p**	2.3		ug/Kg	☼	03/11/20 09:08	03/12/20 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*43 - 108*	*03/11/20 09:08*	*03/12/20 11:29*	*1*
DCB Decachlorobiphenyl	*63*		*25 - 141*	*03/11/20 09:08*	*03/12/20 11:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.60		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Arsenic	**26**		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Barium	**210**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1

Client Sample ID: HA-1-0.5'

Date Collected: 03/10/20 10:55
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-1

Matrix: Solid
Percent Solids: 84.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.60**		0.24		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Cadmium	ND	F1	0.24		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Cobalt	**15**	**F1**	0.60		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Chromium	**66**		0.60		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Copper	**40**		1.8		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Molybdenum	ND	F1	2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Nickel	**96**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Lead	**18**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Selenium	ND	F1	2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Antimony	ND	F1	2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Thallium	ND	F1	2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Vanadium	**47**		0.60		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1
Zinc	**87**		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:30	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.096**		0.048		mg/Kg	☼	03/16/20 09:40	03/16/20 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		0.1		%			03/11/20 11:08	1

Client Sample ID: HA-2-0.5'
Date Collected: 03/10/20 10:45
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-4
Matrix: Solid
Percent Solids: 86.8

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		270		ug/Kg	☼	03/11/20 08:14	03/11/20 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*03/11/20 08:14*	*03/11/20 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*03/11/20 08:14*	*03/11/20 13:05*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*03/11/20 08:14*	*03/11/20 13:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.7**		2.3		mg/Kg	☼	03/11/20 08:53	03/11/20 21:55	1
Motor Oil Range Organics [C24-C36]	ND		57		mg/Kg	☼	03/11/20 08:53	03/11/20 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*03/11/20 08:53*	*03/11/20 21:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Dieldrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endrin aldehyde	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endrin ketone	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Heptachlor	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Heptachlor epoxide	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
4,4'-DDT	**14**		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
4,4'-DDE	**440**		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
4,4'-DDD	**87**		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endosulfan I	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endosulfan II	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
alpha-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
beta-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
gamma-BHC (Lindane)	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
delta-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Endosulfan sulfate	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Methoxychlor	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Toxaphene	ND		220		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
Chlordane (technical)	ND		220		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
cis-Chlordane	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5
trans-Chlordane	ND		11		ug/Kg	☼	03/11/20 09:08	03/12/20 14:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*43 - 108*	*03/11/20 09:08*	*03/12/20 14:40*	*5*
DCB Decachlorobiphenyl	*62*		*25 - 141*	*03/11/20 09:08*	*03/12/20 14:40*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.59		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Arsenic	**24**		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Barium	**200**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Beryllium	**0.48**		0.24		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1

Client Sample ID: HA-2-0.5'

Date Collected: 03/10/20 10:45
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-4

Matrix: Solid
Percent Solids: 86.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.98**		0.24		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Cobalt	**14**		0.59		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Chromium	**57**		0.59		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Copper	**47**		1.8		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Molybdenum	ND		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Nickel	**84**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Lead	**81**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Selenium	ND		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Antimony	ND		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Thallium	ND		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Vanadium	**44**		0.59		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1
Zinc	**110**		2.4		mg/Kg	☼	03/13/20 07:00	03/13/20 16:48	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.046		mg/Kg	☼	03/16/20 09:40	03/16/20 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1		%			03/11/20 11:08	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-3-0.5'

Date Collected: 03/10/20 10:20
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-7

Matrix: Solid
Percent Solids: 89.0

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		270		ug/Kg	☼	03/11/20 08:14	03/12/20 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*03/11/20 08:14*	*03/12/20 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*	*03/11/20 08:14*	*03/12/20 14:31*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*03/11/20 08:14*	*03/12/20 14:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**36**		2.2		mg/Kg	☼	03/11/20 08:53	03/12/20 01:15	1
Motor Oil Range Organics [C24-C36]	**270**		55		mg/Kg	☼	03/11/20 08:53	03/12/20 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*71*		*40 - 130*	*03/11/20 08:53*	*03/12/20 01:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Dieldrin	**5.0**		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endrin aldehyde	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endrin	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endrin ketone	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Heptachlor	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Heptachlor epoxide	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
4,4'-DDT	**31**		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
4,4'-DDE	**310**		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
4,4'-DDD	**24**		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endosulfan I	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endosulfan II	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
alpha-BHC	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
beta-BHC	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
gamma-BHC (Lindane)	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
delta-BHC	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Endosulfan sulfate	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Methoxychlor	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Toxaphene	ND		43		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
Chlordane (technical)	ND		43		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
cis-Chlordane	ND		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1
trans-Chlordane	**10**		2.1		ug/Kg	☼	03/11/20 09:08	03/12/20 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*43 - 108*	*03/11/20 09:08*	*03/12/20 12:07*	*1*
DCB Decachlorobiphenyl	*52*		*25 - 141*	*03/11/20 09:08*	*03/12/20 12:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.55		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Arsenic	**6.9**		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Barium	**170**		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1

Client Sample ID: HA-3-0.5'

Date Collected: 03/10/20 10:20
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-7

Matrix: Solid
Percent Solids: 89.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.58**		0.22		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Cadmium	ND		0.22		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Cobalt	**16**		0.55		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Chromium	**100**		0.55		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Copper	**31**		1.7		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Molybdenum	ND		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Nickel	**160**		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Lead	**12**		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Selenium	ND		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Antimony	ND		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Thallium	ND		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Vanadium	**46**		0.55		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1
Zinc	**53**		2.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:00	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.044		mg/Kg	☼	03/16/20 09:40	03/16/20 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1		%			03/11/20 11:08	1

Client Sample ID: HA-4-0.5'

Date Collected: 03/10/20 10:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-10

Matrix: Solid
Percent Solids: 91.9

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		260		ug/Kg	☼	03/11/20 11:11	03/12/20 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*03/11/20 11:11*	*03/12/20 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*03/11/20 11:11*	*03/12/20 14:57*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*03/11/20 11:11*	*03/12/20 14:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**91**		21		mg/Kg	☼	03/11/20 09:05	03/12/20 03:18	10
Motor Oil Range Organics [C24-C36]	**520**		510		mg/Kg	☼	03/11/20 09:05	03/12/20 03:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/11/20 09:05*	*03/12/20 03:18*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Dieldrin	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endrin aldehyde	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endrin	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endrin ketone	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Heptachlor	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Heptachlor epoxide	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
4,4'-DDT	**12**		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
4,4'-DDE	**220**		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
4,4'-DDD	**19**		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endosulfan I	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endosulfan II	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
alpha-BHC	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
beta-BHC	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
gamma-BHC (Lindane)	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
delta-BHC	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Endosulfan sulfate	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Methoxychlor	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Toxaphene	ND		85		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
Chlordane (technical)	ND		85		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
cis-Chlordane	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2
trans-Chlordane	ND		4.3		ug/Kg	☼	03/11/20 09:08	03/12/20 13:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*43 - 108*	*03/11/20 09:08*	*03/12/20 13:43*	*2*
DCB Decachlorobiphenyl	*94*		*25 - 141*	*03/11/20 09:08*	*03/12/20 13:43*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.53		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Arsenic	**7.6**		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Barium	**150**		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-4-0.5'
Date Collected: 03/10/20 10:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-10
Matrix: Solid
Percent Solids: 91.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.35		0.21		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Cadmium	ND		0.21		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Cobalt	9.7		0.53		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Chromium	44		0.53		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Copper	30		1.6		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Molybdenum	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Nickel	62		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Lead	18		1.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Selenium	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Antimony	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Thallium	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Vanadium	41		0.53		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1
Zinc	58		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:04	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.044		mg/Kg	☼	03/16/20 09:40	03/16/20 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1		%			03/11/20 11:36	1

Client Sample ID: HA-5-0.5'

Date Collected: 03/10/20 10:35
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-13

Matrix: Solid
Percent Solids: 83.3

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		280		ug/Kg	☼	03/11/20 08:14	03/12/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*03/11/20 08:14*	*03/12/20 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*03/11/20 08:14*	*03/12/20 15:23*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*03/11/20 08:14*	*03/12/20 15:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		2.4		mg/Kg	☼	03/11/20 08:53	03/11/20 22:53	1
Motor Oil Range Organics [C24-C36]	**96**		59		mg/Kg	☼	03/11/20 08:53	03/11/20 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*03/11/20 08:53*	*03/11/20 22:53*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Dieldrin	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endrin aldehyde	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endrin	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endrin ketone	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Heptachlor	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Heptachlor epoxide	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
4,4'-DDT	**70**		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
4,4'-DDE	**2700**		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
4,4'-DDD	**160**		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endosulfan I	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endosulfan II	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
alpha-BHC	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
beta-BHC	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
gamma-BHC (Lindane)	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
delta-BHC	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Endosulfan sulfate	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Methoxychlor	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Toxaphene	ND		480		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
Chlordane (technical)	ND		480		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
cis-Chlordane	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10
trans-Chlordane	ND		24		ug/Kg	☼	03/11/20 09:08	03/12/20 14:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*43 - 108*	*03/11/20 09:08*	*03/12/20 14:59*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*25 - 141*	*03/11/20 09:08*	*03/12/20 14:59*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.62		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Arsenic	**20**		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Barium	**180**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-5-0.5'
Date Collected: 03/10/20 10:35
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-13
Matrix: Solid
Percent Solids: 83.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.56		0.25		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Cadmium	0.27		0.25		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Cobalt	15		0.62		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Chromium	64		0.62		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Copper	50		1.9		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Molybdenum	ND		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Nickel	97		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Lead	86		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Selenium	ND		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Antimony	ND		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Thallium	ND		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Vanadium	46		0.62		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1
Zinc	93		2.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:08	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.049		mg/Kg	☼	03/16/20 09:40	03/16/20 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		0.1		%			03/11/20 11:08	1

Client Sample ID: SP-1

Date Collected: 03/10/20 10:42
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-16

Matrix: Solid
Percent Solids: 87.3

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		270		ug/Kg	☼	03/11/20 08:14	03/12/20 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*45 - 131*	*03/11/20 08:14*	*03/12/20 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*	*03/11/20 08:14*	*03/12/20 15:48*	*1*
Toluene-d8 (Surr)	*84*		*58 - 140*	*03/11/20 08:14*	*03/12/20 15:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		4.3		mg/Kg	☼	03/11/20 08:53	03/11/20 23:23	2
Motor Oil Range Organics [C24-C36]	**360**		110		mg/Kg	☼	03/11/20 08:53	03/11/20 23:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*03/11/20 08:53*	*03/11/20 23:23*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Dieldrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endrin aldehyde	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endrin	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endrin ketone	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Heptachlor	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Heptachlor epoxide	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
4,4'-DDT	**180**		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
4,4'-DDE	**790**		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
4,4'-DDD	**34**		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endosulfan I	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endosulfan II	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
alpha-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
beta-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
gamma-BHC (Lindane)	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
delta-BHC	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Endosulfan sulfate	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Methoxychlor	ND		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Toxaphene	ND		220		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
Chlordane (technical)	ND		220		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
cis-Chlordane	**15**	**p**	11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5
trans-Chlordane	**30**		11		ug/Kg	☼	03/11/20 09:08	03/13/20 09:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*	*p*	*43 - 108*	*03/11/20 09:08*	*03/13/20 09:03*	*5*
DCB Decachlorobiphenyl	*75*		*25 - 141*	*03/11/20 09:08*	*03/13/20 09:03*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.58		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Arsenic	**13**		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Barium	**150**		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1

Client Sample ID: SP-1
Date Collected: 03/10/20 10:42
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-16
Matrix: Solid
Percent Solids: 87.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.36		0.23		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Cadmium	0.60		0.23		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Cobalt	12		0.58		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Chromium	57		0.58		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Copper	47		1.8		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Molybdenum	ND		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Nickel	82		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Lead	110		1.2		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Selenium	ND		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Antimony	2.5		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Thallium	ND		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Vanadium	40		0.58		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1
Zinc	130		2.3		mg/Kg	☼	03/13/20 07:00	03/13/20 17:12	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.044		mg/Kg	☼	03/16/20 09:40	03/16/20 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1		%			03/11/20 11:08	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: SP-2

Date Collected: 03/10/20 11:03
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-17

Matrix: Solid
Percent Solids: 95.4

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		260		ug/Kg	☼	03/11/20 08:14	03/12/20 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*03/11/20 08:14*	*03/12/20 16:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*03/11/20 08:14*	*03/12/20 16:14*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*03/11/20 08:14*	*03/12/20 16:14*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**190**		9.9		mg/Kg	☼	03/11/20 08:53	03/11/20 23:52	5
Motor Oil Range Organics [C24-C36]	**650**		250		mg/Kg	☼	03/11/20 08:53	03/11/20 23:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*03/11/20 08:53*	*03/11/20 23:52*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Dieldrin	**4.4**		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endrin aldehyde	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endrin	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endrin ketone	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Heptachlor	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Heptachlor epoxide	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
4,4'-DDT	**38**		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
4,4'-DDE	**12**		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
4,4'-DDD	**45**		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endosulfan I	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endosulfan II	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
alpha-BHC	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
beta-BHC	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
gamma-BHC (Lindane)	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
delta-BHC	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Endosulfan sulfate	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Methoxychlor	ND		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Toxaphene	ND		84		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
Chlordane (technical)	**94**		84		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
cis-Chlordane	**13**		4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2
trans-Chlordane	**15**	**p**	4.2		ug/Kg	☼	03/11/20 09:08	03/12/20 14:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*43 - 108*	*03/11/20 09:08*	*03/12/20 14:21*	*2*
DCB Decachlorobiphenyl	*79*		*25 - 141*	*03/11/20 09:08*	*03/12/20 14:21*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.51		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Arsenic	**17**		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Barium	**120**		1.0		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: SP-2
Date Collected: 03/10/20 11:03
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-17
Matrix: Solid
Percent Solids: 95.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.25		0.21		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Cadmium	0.44		0.21		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Cobalt	11		0.51		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Chromium	55		0.51		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Copper	45		1.5		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Molybdenum	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Nickel	83		1.0		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Lead	53		1.0		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Selenium	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Antimony	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Thallium	ND		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Vanadium	38		0.51		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1
Zinc	96		2.1		mg/Kg	☼	03/13/20 07:00	03/13/20 17:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.041		mg/Kg	☼	03/16/20 09:40	03/16/20 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.6		0.1		%			03/11/20 11:08	1

Surrogate Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Solid — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (45-131)	DCA (60-140)	TOL (58-140)
720-97726-1	HA-1-0.5'	97	113	97
720-97726-4	HA-2-0.5'	94	111	96
720-97726-7	HA-3-0.5'	93	112	93
720-97726-10	HA-4-0.5'	91	113	92
720-97726-13	HA-5-0.5'	95	113	93
720-97726-16	SP-1	78	125	84
720-97726-17	SP-2	85	121	87
LCS 720-280194/7	Lab Control Sample	99	102	98
LCS 720-280254/7	Lab Control Sample	102	109	97
LCSD 720-280194/8	Lab Control Sample Dup	99	100	98
LCSD 720-280254/8	Lab Control Sample Dup	102	109	97
MB 720-280194/4	Method Blank	100	100	97
MB 720-280254/4	Method Blank	102	107	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-97726-1	HA-1-0.5'	52
720-97726-4	HA-2-0.5'	70
720-97726-7	HA-3-0.5'	71
720-97726-10	HA-4-0.5'	0 X D
720-97726-13	HA-5-0.5'	97
720-97726-16	SP-1	70
720-97726-17	SP-2	0 X D
LCS 720-280209/2-A	Lab Control Sample	99
MB 720-280209/1-A	Method Blank	77

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (43-108)	DCBP1 (25-141)
720-97726-1	HA-1-0.5'	63	63
720-97726-4	HA-2-0.5'	56	62
720-97726-7	HA-3-0.5'	63	52
720-97726-13	HA-5-0.5'	0 X D	0 X D

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP1
Lab Sample ID	Client Sample ID	(43-108)	(25-141)
720-97726-10	HA-4-0.5'	77	94
720-97726-17	SP-2	76	79
MB 720-280214/1-A	Method Blank	56	65

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP2
Lab Sample ID	Client Sample ID	(43-108)	(25-141)
720-97726-16	SP-1	62 p	75

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(43-108)	(25-141)
LCS 720-280214/2-A	Lab Control Sample	63	79

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-280194/4
Matrix: Solid
Analysis Batch: 280194

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg			03/11/20 08:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*		*03/11/20 08:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*03/11/20 08:32*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*03/11/20 08:32*	*1*

Lab Sample ID: LCS 720-280194/7
Matrix: Solid
Analysis Batch: 280194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	988		ug/Kg		99	70 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-280194/8
Matrix: Solid
Analysis Batch: 280194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	952		ug/Kg		95	70 - 122	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: MB 720-280254/4
Matrix: Solid
Analysis Batch: 280254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg			03/12/20 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*45 - 131*		*03/12/20 11:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*		*03/12/20 11:06*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*03/12/20 11:06*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-280254/7
Matrix: Solid
Analysis Batch: 280254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	1140		ug/Kg		114	70 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-280254/8
Matrix: Solid
Analysis Batch: 280254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	1130		ug/Kg		113	70 - 122	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-280209/1-A
Matrix: Solid
Analysis Batch: 280200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0		mg/Kg		03/11/20 08:53	03/11/20 15:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		03/11/20 08:53	03/11/20 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*77*		*40 - 130*	*03/11/20 08:53*	*03/11/20 15:53*	*1*

Lab Sample ID: LCS 720-280209/2-A
Matrix: Solid
Analysis Batch: 280200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	129		mg/Kg		78	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*99*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-280214/1-A
Matrix: Solid
Analysis Batch: 280251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Dieldrin	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endrin aldehyde	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endrin	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endrin ketone	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Heptachlor	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Heptachlor epoxide	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
4,4'-DDT	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
4,4'-DDE	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
4,4'-DDD	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endosulfan I	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endosulfan II	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
alpha-BHC	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
beta-BHC	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
delta-BHC	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Endosulfan sulfate	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Methoxychlor	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Toxaphene	ND		40		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
Chlordane (technical)	ND		40		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
cis-Chlordane	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1
trans-Chlordane	ND		2.0		ug/Kg		03/11/20 09:08	03/12/20 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*43 - 108*	*03/11/20 09:08*	*03/12/20 09:16*	*1*
DCB Decachlorobiphenyl	*65*		*25 - 141*	*03/11/20 09:08*	*03/12/20 09:16*	*1*

Lab Sample ID: LCS 720-280214/2-A
Matrix: Solid
Analysis Batch: 280251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	10.7		ug/Kg		64	56 - 100
Dieldrin	16.7	12.1		ug/Kg		73	67 - 113
Endrin aldehyde	16.7	13.7		ug/Kg		82	74 - 120
Endrin	16.7	12.0		ug/Kg		72	68 - 120
Endrin ketone	16.7	11.9		ug/Kg		71	66 - 122
Heptachlor	16.7	11.7		ug/Kg		70	62 - 106
Heptachlor epoxide	16.7	12.1		ug/Kg		72	68 - 110
4,4'-DDT	16.7	11.4		ug/Kg		68	63 - 115
4,4'-DDE	16.7	11.6		ug/Kg		69	66 - 114
4,4'-DDD	16.7	11.7		ug/Kg		70	67 - 120
Endosulfan I	16.7	12.6		ug/Kg		76	69 - 113
Endosulfan II	16.7	12.5		ug/Kg		75	71 - 120
alpha-BHC	16.7	10.4		ug/Kg		62	58 - 110
beta-BHC	16.7	13.0		ug/Kg		78	71 - 114
gamma-BHC (Lindane)	16.7	10.8		ug/Kg		65	62 - 103
delta-BHC	16.7	9.28		ug/Kg		56	48 - 109

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-280214/2-A
Matrix: Solid
Analysis Batch: 280251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	12.3		ug/Kg		74	68 - 121
Methoxychlor	16.7	12.9		ug/Kg		77	65 - 132
cis-Chlordane	16.7	11.8		ug/Kg		71	66 - 110
trans-Chlordane	16.7	11.5		ug/Kg		69	64 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*43 - 108*
DCB Decachlorobiphenyl	*79*		*25 - 141*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-364237/1-A
Matrix: Solid
Analysis Batch: 364921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Arsenic	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Barium	ND		1.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Beryllium	ND		0.20		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Cadmium	ND		0.20		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Cobalt	ND		0.50		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Chromium	ND		0.50		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Copper	ND		1.5		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Molybdenum	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Nickel	ND		1.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Lead	ND		1.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Selenium	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Antimony	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Thallium	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Vanadium	ND		0.50		mg/Kg		03/13/20 07:00	03/13/20 16:14	1
Zinc	ND		2.0		mg/Kg		03/13/20 07:00	03/13/20 16:14	1

Lab Sample ID: LCS 320-364237/2-A
Matrix: Solid
Analysis Batch: 364921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.98	4.83		mg/Kg		97	80 - 120
Arsenic	50.0	44.5		mg/Kg		89	80 - 120
Barium	50.0	45.6		mg/Kg		91	80 - 120
Beryllium	25.0	23.1		mg/Kg		92	80 - 120
Cadmium	25.0	23.0		mg/Kg		92	80 - 120
Cobalt	25.0	22.7		mg/Kg		91	80 - 120
Chromium	25.0	23.5		mg/Kg		94	80 - 120
Copper	25.0	23.0		mg/Kg		92	80 - 120
Molybdenum	25.0	23.1		mg/Kg		92	80 - 120
Nickel	25.0	22.6		mg/Kg		90	80 - 120
Lead	25.0	23.4		mg/Kg		94	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-364237/2-A
Matrix: Solid
Analysis Batch: 364921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	50.0	46.6		mg/Kg		93	80 - 120
Antimony	49.8	42.0		mg/Kg		84	80 - 120
Thallium	50.0	46.8		mg/Kg		94	80 - 120
Vanadium	25.0	23.3		mg/Kg		93	80 - 120
Zinc	50.3	47.6		mg/Kg		95	80 - 120

Lab Sample ID: 720-97726-1 MS
Matrix: Solid
Analysis Batch: 364921

Client Sample ID: HA-1-0.5'
Prep Type: Total/NA
Prep Batch: 364237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		5.70	4.96		mg/Kg	☼	87	80 - 120
Arsenic	26		57.3	72.1		mg/Kg	☼	81	80 - 120
Barium	210		57.3	270		mg/Kg	☼	109	80 - 120
Beryllium	0.60		28.6	23.7		mg/Kg	☼	81	80 - 120
Cadmium	ND	F1	28.6	22.5	F1	mg/Kg	☼	78	80 - 120
Cobalt	15	F1	28.6	37.9	F1	mg/Kg	☼	79	80 - 120
Chromium	66		28.6	96.1		mg/Kg	☼	106	80 - 120
Copper	40		28.6	64.6		mg/Kg	☼	86	80 - 120
Molybdenum	ND	F1	28.6	22.3	F1	mg/Kg	☼	78	80 - 120
Nickel	96		28.6	120		mg/Kg	☼	84	80 - 120
Lead	18		28.7	43.4		mg/Kg	☼	87	80 - 120
Selenium	ND	F1	57.3	43.6	F1	mg/Kg	☼	76	80 - 120
Antimony	ND	F1	57.0	12.8	F1	mg/Kg	☼	22	80 - 120
Thallium	ND	F1	57.3	43.7	F1	mg/Kg	☼	76	80 - 120
Vanadium	47		28.6	79.0		mg/Kg	☼	113	80 - 120
Zinc	87		57.5	135		mg/Kg	☼	83	80 - 120

Lab Sample ID: 720-97726-1 MSD
Matrix: Solid
Analysis Batch: 364921

Client Sample ID: HA-1-0.5'
Prep Type: Total/NA
Prep Batch: 364237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		5.99	5.04		mg/Kg	☼	84	80 - 120	2	35
Arsenic	26		60.1	73.5		mg/Kg	☼	80	80 - 120	2	35
Barium	210		60.1	271		mg/Kg	☼	105	80 - 120	0	35
Beryllium	0.60		30.1	25.1		mg/Kg	☼	81	80 - 120	5	35
Cadmium	ND	F1	30.1	23.8	F1	mg/Kg	☼	79	80 - 120	6	35
Cobalt	15	F1	30.1	39.4		mg/Kg	☼	80	80 - 120	4	35
Chromium	66		30.1	97.2		mg/Kg	☼	105	80 - 120	1	35
Copper	40		30.1	65.5		mg/Kg	☼	85	80 - 120	1	35
Molybdenum	ND	F1	30.1	23.7	F1	mg/Kg	☼	79	80 - 120	6	35
Nickel	96		30.1	120		mg/Kg	☼	80	80 - 120	0	35
Lead	18		30.1	43.4		mg/Kg	☼	83	80 - 120	0	35
Selenium	ND	F1	60.1	45.8	F1	mg/Kg	☼	76	80 - 120	5	35
Antimony	ND	F1	59.9	14.5	F1	mg/Kg	☼	24	80 - 120	12	35
Thallium	ND	F1	60.1	46.3	F1	mg/Kg	☼	77	80 - 120	6	35
Vanadium	47		30.1	81.5		mg/Kg	☼	116	80 - 120	3	35
Zinc	87		60.4	139		mg/Kg	☼	84	80 - 120	2	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-364906/11-A
Matrix: Solid
Analysis Batch: 365210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 364906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040		mg/Kg		03/16/20 09:40	03/16/20 15:06	1

Lab Sample ID: LCS 320-364906/12-A
Matrix: Solid
Analysis Batch: 365210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 364906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.168		mg/Kg		101	86 - 114		

Lab Sample ID: LCSD 320-364906/13-A
Matrix: Solid
Analysis Batch: 365210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 364906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.168		mg/Kg		101	86 - 114	0	17

Lab Sample ID: 720-97726-1 MS
Matrix: Solid
Analysis Batch: 365210

Client Sample ID: HA-1-0.5'
Prep Type: Total/NA
Prep Batch: 364906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.096		0.202	0.289		mg/Kg	☼	95	86 - 114		

Lab Sample ID: 720-97726-1 MSD
Matrix: Solid
Analysis Batch: 365210

Client Sample ID: HA-1-0.5'
Prep Type: Total/NA
Prep Batch: 364906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.096		0.205	0.293		mg/Kg	☼	96	86 - 114	1	17

GC/MS VOA

Analysis Batch: 280194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	8260B/CA_LUFT MS	280206
720-97726-4	HA-2-0.5'	Total/NA	Solid	8260B/CA_LUFT MS	280206
MB 720-280194/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-280194/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-280194/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 280206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	5030B	
720-97726-4	HA-2-0.5'	Total/NA	Solid	5030B	
720-97726-7	HA-3-0.5'	Total/NA	Solid	5030B	
720-97726-13	HA-5-0.5'	Total/NA	Solid	5030B	
720-97726-16	SP-1	Total/NA	Solid	5030B	
720-97726-17	SP-2	Total/NA	Solid	5030B	

Prep Batch: 280227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-10	HA-4-0.5'	Total/NA	Solid	5030B	

Analysis Batch: 280254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	Total/NA	Solid	8260B/CA_LUFT MS	280206
720-97726-10	HA-4-0.5'	Total/NA	Solid	8260B/CA_LUFT MS	280227
720-97726-13	HA-5-0.5'	Total/NA	Solid	8260B/CA_LUFT MS	280206
720-97726-16	SP-1	Total/NA	Solid	8260B/CA_LUFT MS	280206
720-97726-17	SP-2	Total/NA	Solid	8260B/CA_LUFT MS	280206
MB 720-280254/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-280254/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-280254/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC Semi VOA

Analysis Batch: 280200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	8015B	280209
720-97726-4	HA-2-0.5'	Total/NA	Solid	8015B	280209
720-97726-10	HA-4-0.5'	Total/NA	Solid	8015B	280209
720-97726-13	HA-5-0.5'	Total/NA	Solid	8015B	280209
720-97726-16	SP-1	Total/NA	Solid	8015B	280209
720-97726-17	SP-2	Total/NA	Solid	8015B	280209
MB 720-280209/1-A	Method Blank	Total/NA	Solid	8015B	280209
LCS 720-280209/2-A	Lab Control Sample	Total/NA	Solid	8015B	280209

QC Association Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

GC Semi VOA

Analysis Batch: 280202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	Total/NA	Solid	8015B	280209

Prep Batch: 280209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	3546	
720-97726-4	HA-2-0.5'	Total/NA	Solid	3546	
720-97726-7	HA-3-0.5'	Total/NA	Solid	3546	
720-97726-10	HA-4-0.5'	Total/NA	Solid	3546	
720-97726-13	HA-5-0.5'	Total/NA	Solid	3546	
720-97726-16	SP-1	Total/NA	Solid	3546	
720-97726-17	SP-2	Total/NA	Solid	3546	
MB 720-280209/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-280209/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 280214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	3546	
720-97726-4	HA-2-0.5'	Total/NA	Solid	3546	
720-97726-7	HA-3-0.5'	Total/NA	Solid	3546	
720-97726-10	HA-4-0.5'	Total/NA	Solid	3546	
720-97726-13	HA-5-0.5'	Total/NA	Solid	3546	
720-97726-16	SP-1	Total/NA	Solid	3546	
720-97726-17	SP-2	Total/NA	Solid	3546	
MB 720-280214/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-280214/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 280251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	8081A	280214
720-97726-4	HA-2-0.5'	Total/NA	Solid	8081A	280214
720-97726-7	HA-3-0.5'	Total/NA	Solid	8081A	280214
720-97726-10	HA-4-0.5'	Total/NA	Solid	8081A	280214
720-97726-13	HA-5-0.5'	Total/NA	Solid	8081A	280214
720-97726-17	SP-2	Total/NA	Solid	8081A	280214
MB 720-280214/1-A	Method Blank	Total/NA	Solid	8081A	280214
LCS 720-280214/2-A	Lab Control Sample	Total/NA	Solid	8081A	280214

Analysis Batch: 280299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-16	SP-1	Total/NA	Solid	8081A	280214

Metals

Prep Batch: 364237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	3050B	
720-97726-4	HA-2-0.5'	Total/NA	Solid	3050B	
720-97726-7	HA-3-0.5'	Total/NA	Solid	3050B	
720-97726-10	HA-4-0.5'	Total/NA	Solid	3050B	
720-97726-13	HA-5-0.5'	Total/NA	Solid	3050B	
720-97726-16	SP-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 364237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-17	SP-2	Total/NA	Solid	3050B	
MB 320-364237/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-364237/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-97726-1 MS	HA-1-0.5'	Total/NA	Solid	3050B	
720-97726-1 MSD	HA-1-0.5'	Total/NA	Solid	3050B	

Prep Batch: 364906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	7471A	
720-97726-4	HA-2-0.5'	Total/NA	Solid	7471A	
720-97726-7	HA-3-0.5'	Total/NA	Solid	7471A	
720-97726-10	HA-4-0.5'	Total/NA	Solid	7471A	
720-97726-13	HA-5-0.5'	Total/NA	Solid	7471A	
720-97726-16	SP-1	Total/NA	Solid	7471A	
720-97726-17	SP-2	Total/NA	Solid	7471A	
MB 320-364906/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-364906/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-364906/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-97726-1 MS	HA-1-0.5'	Total/NA	Solid	7471A	
720-97726-1 MSD	HA-1-0.5'	Total/NA	Solid	7471A	

Analysis Batch: 364921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	6010B	364237
720-97726-4	HA-2-0.5'	Total/NA	Solid	6010B	364237
720-97726-7	HA-3-0.5'	Total/NA	Solid	6010B	364237
720-97726-10	HA-4-0.5'	Total/NA	Solid	6010B	364237
720-97726-13	HA-5-0.5'	Total/NA	Solid	6010B	364237
720-97726-16	SP-1	Total/NA	Solid	6010B	364237
720-97726-17	SP-2	Total/NA	Solid	6010B	364237
MB 320-364237/1-A	Method Blank	Total/NA	Solid	6010B	364237
LCS 320-364237/2-A	Lab Control Sample	Total/NA	Solid	6010B	364237
720-97726-1 MS	HA-1-0.5'	Total/NA	Solid	6010B	364237
720-97726-1 MSD	HA-1-0.5'	Total/NA	Solid	6010B	364237

Analysis Batch: 365210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	7471A	364906
720-97726-4	HA-2-0.5'	Total/NA	Solid	7471A	364906
720-97726-7	HA-3-0.5'	Total/NA	Solid	7471A	364906
720-97726-10	HA-4-0.5'	Total/NA	Solid	7471A	364906
720-97726-13	HA-5-0.5'	Total/NA	Solid	7471A	364906
720-97726-16	SP-1	Total/NA	Solid	7471A	364906
720-97726-17	SP-2	Total/NA	Solid	7471A	364906
MB 320-364906/11-A	Method Blank	Total/NA	Solid	7471A	364906
LCS 320-364906/12-A	Lab Control Sample	Total/NA	Solid	7471A	364906
LCSD 320-364906/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	364906
720-97726-1 MS	HA-1-0.5'	Total/NA	Solid	7471A	364906
720-97726-1 MSD	HA-1-0.5'	Total/NA	Solid	7471A	364906

QC Association Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

General Chemistry

Analysis Batch: 280226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	Total/NA	Solid	Moisture	
720-97726-4	HA-2-0.5'	Total/NA	Solid	Moisture	
720-97726-7	HA-3-0.5'	Total/NA	Solid	Moisture	
720-97726-10	HA-4-0.5'	Total/NA	Solid	Moisture	
720-97726-13	HA-5-0.5'	Total/NA	Solid	Moisture	
720-97726-16	SP-1	Total/NA	Solid	Moisture	
720-97726-17	SP-2	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-1-0.5'

Lab Sample ID: 720-97726-1

Date Collected: 03/10/20 10:55

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: HA-1-0.5'

Lab Sample ID: 720-97726-1

Date Collected: 03/10/20 10:55

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.29 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280194	03/11/20 12:38	A1C	TAL PLS
Total/NA	Prep	3546			15.90 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		1			280200	03/11/20 21:25	JXL	TAL PLS
Total/NA	Prep	3546			15.83 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		1			280251	03/12/20 11:29	JZT	TAL PLS
Total/NA	Prep	3050B			0.99 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 16:30	GSH	TAL SAC
Total/NA	Prep	7471A			0.59 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:14	IM	TAL SAC

Client Sample ID: HA-2-0.5'

Lab Sample ID: 720-97726-4

Date Collected: 03/10/20 10:45

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: HA-2-0.5'

Lab Sample ID: 720-97726-4

Date Collected: 03/10/20 10:45

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.30 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280194	03/11/20 13:05	A1C	TAL PLS
Total/NA	Prep	3546			15.29 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		1			280200	03/11/20 21:55	JXL	TAL PLS
Total/NA	Prep	3546			15.93 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		5			280251	03/12/20 14:40	JZT	TAL PLS
Total/NA	Prep	3050B			0.97 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 16:48	GSH	TAL SAC
Total/NA	Prep	7471A			0.60 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:24	IM	TAL SAC

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-3-0.5'

Lab Sample ID: 720-97726-7

Date Collected: 03/10/20 10:20

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: HA-3-0.5'

Lab Sample ID: 720-97726-7

Date Collected: 03/10/20 10:20

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.29 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280254	03/12/20 14:31	A1C	TAL PLS
Total/NA	Prep	3546			15.29 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		1			280202	03/12/20 01:15	JXL	TAL PLS
Total/NA	Prep	3546			15.70 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		1			280251	03/12/20 12:07	JZT	TAL PLS
Total/NA	Prep	3050B			1.02 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 17:00	GSH	TAL SAC
Total/NA	Prep	7471A			0.61 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:27	IM	TAL SAC

Client Sample ID: HA-4-0.5'

Lab Sample ID: 720-97726-10

Date Collected: 03/10/20 10:05

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:36	NAT	TAL PLS

Client Sample ID: HA-4-0.5'

Lab Sample ID: 720-97726-10

Date Collected: 03/10/20 10:05

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.21 g	10 mL	280227	03/11/20 11:11	AJS	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280254	03/12/20 14:57	A1C	TAL PLS
Total/NA	Prep	3546			15.89 g	2 mL	280209	03/11/20 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		10			280200	03/12/20 03:18	JXL	TAL PLS
Total/NA	Prep	3546			15.28 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		2			280251	03/12/20 13:43	JZT	TAL PLS
Total/NA	Prep	3050B			1.02 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 17:04	GSH	TAL SAC
Total/NA	Prep	7471A			0.59 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:29	IM	TAL SAC

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: HA-5-0.5'

Lab Sample ID: 720-97726-13

Date Collected: 03/10/20 10:35

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: HA-5-0.5'

Lab Sample ID: 720-97726-13

Date Collected: 03/10/20 10:35

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.34 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280254	03/12/20 15:23	A1C	TAL PLS
Total/NA	Prep	3546			15.24 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		1			280200	03/11/20 22:53	JXL	TAL PLS
Total/NA	Prep	3546			15.13 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		10			280251	03/12/20 14:59	JZT	TAL PLS
Total/NA	Prep	3050B			0.97 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 17:08	GSH	TAL SAC
Total/NA	Prep	7471A			0.59 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:38	IM	TAL SAC

Client Sample ID: SP-1

Lab Sample ID: 720-97726-16

Date Collected: 03/10/20 10:42

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: SP-1

Lab Sample ID: 720-97726-16

Date Collected: 03/10/20 10:42

Matrix: Solid

Date Received: 03/10/20 14:30

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.31 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280254	03/12/20 15:48	A1C	TAL PLS
Total/NA	Prep	3546			15.84 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		2			280200	03/11/20 23:23	JXL	TAL PLS
Total/NA	Prep	3546			15.82 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		5			280299	03/13/20 09:03	LRC	TAL PLS
Total/NA	Prep	3050B			0.98 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 17:12	GSH	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:40	IM	TAL SAC

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Client Sample ID: SP-2
Date Collected: 03/10/20 11:03
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280226	03/11/20 11:08	NAT	TAL PLS

Client Sample ID: SP-2
Date Collected: 03/10/20 11:03
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-17
Matrix: Solid
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.07 g	10 mL	280206	03/11/20 08:14	KLM	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280254	03/12/20 16:14	A1C	TAL PLS
Total/NA	Prep	3546			15.91 g	2 mL	280209	03/11/20 08:53	KLM	TAL PLS
Total/NA	Analysis	8015B		5			280200	03/11/20 23:52	JXL	TAL PLS
Total/NA	Prep	3546			15.04 g	5 mL	280214	03/11/20 09:08	KLM	TAL PLS
Total/NA	Analysis	8081A		2			280251	03/12/20 14:21	JZT	TAL PLS
Total/NA	Prep	3050B			1.02 g	100 mL	364237	03/13/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			364921	03/13/20 17:15	GSH	TAL SAC
Total/NA	Prep	7471A			0.61 g	50 mL	364906	03/16/20 09:40	CF	TAL SAC
Total/NA	Analysis	7471A		1			365210	03/16/20 15:43	IM	TAL SAC

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2496	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
720-97726-1	HA-1-0.5'	Solid	03/10/20 10:55	03/10/20 14:30	
720-97726-4	HA-2-0.5'	Solid	03/10/20 10:45	03/10/20 14:30	
720-97726-7	HA-3-0.5'	Solid	03/10/20 10:20	03/10/20 14:30	
720-97726-10	HA-4-0.5'	Solid	03/10/20 10:05	03/10/20 14:30	
720-97726-13	HA-5-0.5'	Solid	03/10/20 10:35	03/10/20 14:30	
720-97726-16	SP-1	Solid	03/10/20 10:42	03/10/20 14:30	
720-97726-17	SP-2	Solid	03/10/20 11:03	03/10/20 14:30	

P5063

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-97726

Reference #: _____

Date 3/10/20 Page 1 of 2

Report To

Attn: Brian Hubag
Company: Geologica Inc.
Address: 5 Third St. Ste 808, SF 94103
Phone: Email:
Bill To: Sampled By: gR
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☑ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☑ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ ☐	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	6010				Number of Containers
HA-1-0.5'	3/10/20	1055	S		X		X						X		X						X					1
HA-1-1.5'		1058																			X					
HA-1-3'		1100																			X					
HA-2-0.5'		1045			X		X						X		X											
HA-2-1.5'		1047																			X					
HA-2-3'		1050																			X					
HA-3-0.5'		1020			X		X						X		X											
HA-3-1.5'		1023																			X					
HA-3-3'		1025																			X					
HA-4-0.5'		1005			X		X						X		X											

720-97726 Chain of Custody

Project Info.

Project Name: Oakland Road
Project#: 001
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 2.4°C
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank
Fund EDF

Special Instructions / Comments: ☐ Global ID _____

* Dry Weight

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	Relinquished by:
Signature: [signature] Time: 12:07	Signature: [signature] Time: 14:10	Signature: Time:
Printed Name: Greg Romero Date: 3/10/20	Printed Name: Anthony Chales Date: 3-10-20	Printed Name: Date:
Company: Geologica	Company: ETA-PLS	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 12:07	Signature: [signature] Time: 1430	Signature: Time:
Printed Name: Anthony Charles Date: 3-10-20	Printed Name: Lam Date: 3/10/20	Printed Name: Date:
Company: ETA-PLS	Company: ETA PLS	Company:

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3/18/2020

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

~~A5062~~ (195063)

Reference #: _____

Date 3/10/20 Page 2 of 2

720 - 93326

Report To

Attn: Brian Aubry
Company: Geologica Inc.
Address: 5 Third St. Ste 808, SF 94103
Phone: Email:
Bill To: Sampled By: gpr
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☑ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☑ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	Hold			Number of Containers
HA-4-1.5'	3/10/20	1010																						X		1
HA-4-3'		1015																						X		
HA-5-0.5'		1035			X		X						X		X											
HA-5-1.5'		1037																						X		
HA-5-3'		1040																						X		
SP-1		1042			X		X						X		X											
SP-2		1103			X		X						X		X											
SP-3		1105																						X		

Project Info.

Project Name:
Project#:
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 21.4°C
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments: ☐ Global ID _____

* Dry Weight

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Greg Romero	Signature:	Signature:
Time: 12:07	Time: 14:30	Time:
Printed Name: Greg Romero	Printed Name: Anthony Chacks	Printed Name:
Date: 3/10/20	Date: 3-10-20	Date:
Company: Geologica	Company: ETA-PLS	Company:

1) Received by:	2) Received by:	3) Received by:
Signature:	Signature:	Signature:
Time: 12:07	Time: 1470	Time:
Printed Name: Anthony Chacks	Printed Name: Larry	Printed Name:
Date: 3-10-20	Date: 3/10/20	Date:
Company: ETA-PLS	Company: ETA PLS	Company:

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3/18/2020

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46137.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-97726-1
Address: 880 Riverside Parkway,	Due Date Requested: 3/16/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B CAM 17 List, minus Mercury	7471A/7471A_Prep Mercury Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
HA-1-0.5' (720-97726-1)	3/10/20	10:55 Pacific		Solid			X	X	1	
HA-2-0.5' (720-97726-4)	3/10/20	10:45 Pacific		Solid			X	X	1	
HA-3-0.5' (720-97726-7)	3/10/20	10:20 Pacific		Solid			X	X	1	
HA-4-0.5' (720-97726-10)	3/10/20	10:05 Pacific		Solid			X	X	1	
HA-5-0.5' (720-97726-13)	3/10/20	10:35 Pacific		Solid			X	X	1	
SP-1 (720-97726-16)	3/10/20	10:42 Pacific		Solid			X	X	1	
SP-2 (720-97726-17)	3/10/20	11:03 Pacific		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/11/20 1600	[illegible] PCS		12 March 20 0920	ESAWsac
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.: Seal	Cooler Temperature(s) °C and Other Remarks: 2.8°c / 3.2°c

Ver: 01/16/2019

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Sacramento Sample Receiving Notes

720-97726 Field Sheet

Tracking #: 1650 0690 4627

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

Job: _____

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes: _____

Therm. ID: Ak-5 Corr. Factor: (+/-) 0.4 °C

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: Seal

Cooler ID: —

Temp Observed: 2.8 °C Corrected: 3.2 °C

From: Temp Blank ☑ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Samples received within holding time?	☑	☐	☐

Initials: JG Date: 12 March 20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☐	☐	☐

Non-conformance	Yes	No	NA
NCM Filed?	☐	☐	☑

Initials: JG Date: 3/12/20

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W18-A

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-1

Login Number: 97726
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-1

Login Number: 97726
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento
List Creation: 03/12/20 03:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	obs 2.8 corr 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-97726-2
Client Project/Site: Oakland Road

For:
Geologica Inc
5 Third St., Suite 808
San Francisco, California 94103

Attn: Brian Aubry

Authorized for release by:
4/13/2020 3:58:06 PM

Justinn Gonzales, Project Manager I
(925)484-1919
justinn.gonzales@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-97726-2

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-97726-2

Comments
No additional comments.

Receipt
The samples were received on 3/10/2020 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike (MS) recovery and precision for preparation batch 320-369430 and 320-370353 and analytical batch 320-370599 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 8081A_3546: The following sample was prepared outside of preparation holding time due to analysis requested past holding time: HA-5-1.5' (720-97726-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-1-0.5' — Lab Sample ID: 720-97726-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.13		0.10		mg/L	10		6010B	STLC Citrate

Client Sample ID: HA-2-0.5' — Lab Sample ID: 720-97726-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.2		0.10		mg/L	10		6010B	STLC Citrate
Chromium	0.21		0.10		mg/L	10		6010B	STLC Citrate

Client Sample ID: HA-3-0.5' — Lab Sample ID: 720-97726-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.11		0.10		mg/L	10		6010B	STLC Citrate

Client Sample ID: HA-5-0.5' — Lab Sample ID: 720-97726-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.6		0.10		mg/L	10		6010B	STLC Citrate
Chromium	0.20		0.10		mg/L	10		6010B	STLC Citrate

Client Sample ID: HA-5-1.5' — Lab Sample ID: 720-97726-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	16	H	1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDE	180	H	1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDD	3.2	H	1.9		ug/Kg	1		8081A	Total/NA

Client Sample ID: SP-1 — Lab Sample ID: 720-97726-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.6		0.10		mg/L	10		6010B	STLC Citrate
Chromium	0.25		0.10		mg/L	10		6010B	STLC Citrate

Client Sample ID: SP-2 — Lab Sample ID: 720-97726-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.0		0.10		mg/L	10		6010B	STLC Citrate
Chromium	0.31		0.10		mg/L	10		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-1-0.5'
Date Collected: 03/10/20 10:55
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-1
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.13		0.10		mg/L			04/07/20 00:46	10

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-2-0.5'
Date Collected: 03/10/20 10:45
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-4
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		0.10		mg/L			04/07/20 01:08	10
Chromium	0.21		0.10		mg/L			04/07/20 01:08	10

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-3-0.5'
Date Collected: 03/10/20 10:20
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-7
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		04/06/20 06:45	04/06/20 19:07	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.11**		0.10		mg/L			04/13/20 02:12	10

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-5-0.5'
Date Collected: 03/10/20 10:35
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-13
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.6		0.10		mg/L			04/07/20 01:12	10
Chromium	0.20		0.10		mg/L			04/07/20 01:12	10

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-5-1.5'
Date Collected: 03/10/20 10:37
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-14
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Dieldrin	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endrin aldehyde	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endrin	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endrin ketone	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Heptachlor	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Heptachlor epoxide	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
4,4'-DDT	**16**	**H**	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
4,4'-DDE	**180**	**H**	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
4,4'-DDD	**3.2**	**H**	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endosulfan I	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endosulfan II	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
alpha-BHC	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
beta-BHC	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
gamma-BHC (Lindane)	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
delta-BHC	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Endosulfan sulfate	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Methoxychlor	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Toxaphene	ND	H	38		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
Chlordane (technical)	ND	H	38		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
cis-Chlordane	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1
trans-Chlordane	ND	H	1.9		ug/Kg		04/02/20 15:17	04/07/20 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*43 - 108*	*04/02/20 15:17*	*04/07/20 09:19*	*1*
DCB Decachlorobiphenyl	*68*		*25 - 141*	*04/02/20 15:17*	*04/07/20 09:19*	*1*

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: SP-1

Date Collected: 03/10/20 10:42
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-16

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/L		04/06/20 06:45	04/06/20 19:25	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.6**		0.10		mg/L			04/13/20 02:16	10
Chromium	**0.25**		0.10		mg/L			04/13/20 02:16	10

Client Sample Results

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: SP-2

Date Collected: 03/10/20 11:03
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-17

Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.0		0.10		mg/L			04/07/20 01:15	10
Chromium	0.31		0.10		mg/L			04/07/20 01:15	10

Surrogate Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX1 (43-108)	DCBP1 (25-141)										
720-97726-14	HA-5-1.5'	65	68										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX1 (43-108)	DCBP2 (25-141)										
LCS 720-280892/2-A	Lab Control Sample	78	94										
MB 720-280892/1-A	Method Blank	81	93										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-280892/1-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Dieldrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin aldehyde	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin ketone	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Heptachlor	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDT	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDE	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDD	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan I	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan II	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
alpha-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
beta-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
delta-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Methoxychlor	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Toxaphene	ND		40		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Chlordane (technical)	ND		40		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
cis-Chlordane	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
trans-Chlordane	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*43 - 108*	*04/02/20 15:17*	*04/06/20 17:35*	*1*
DCB Decachlorobiphenyl	*93*		*25 - 141*	*04/02/20 15:17*	*04/06/20 17:35*	*1*

Lab Sample ID: LCS 720-280892/2-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.5		ug/Kg		87	56 - 100
Dieldrin	16.7	15.1		ug/Kg		91	67 - 113
Endrin aldehyde	16.7	16.6		ug/Kg		99	74 - 120
Endrin	16.7	15.1		ug/Kg		91	68 - 120
Endrin ketone	16.7	15.6		ug/Kg		93	66 - 122
Heptachlor	16.7	13.7		ug/Kg		82	62 - 106
Heptachlor epoxide	16.7	14.7		ug/Kg		88	68 - 110
4,4'-DDT	16.7	15.7		ug/Kg		94	63 - 115
4,4'-DDE	16.7	15.4		ug/Kg		92	66 - 114
4,4'-DDD	16.7	15.5		ug/Kg		93	67 - 120
Endosulfan I	16.7	14.8		ug/Kg		89	69 - 113
Endosulfan II	16.7	15.3		ug/Kg		92	71 - 120
alpha-BHC	16.7	13.4		ug/Kg		81	58 - 110
beta-BHC	16.7	15.4		ug/Kg		92	71 - 114
gamma-BHC (Lindane)	16.7	14.4		ug/Kg		86	62 - 103
delta-BHC	16.7	14.6		ug/Kg		88	48 - 109

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-280892/2-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	15.9		ug/Kg		96	68 - 121
Methoxychlor	16.7	16.2		ug/Kg		97	65 - 132
cis-Chlordane	16.7	14.9		ug/Kg		89	66 - 110
trans-Chlordane	16.7	14.7		ug/Kg		88	64 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*43 - 108*
DCB Decachlorobiphenyl	*94*		*25 - 141*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-370353/1-A
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10		mg/L		04/06/20 06:45	04/06/20 16:21	1
Chromium	ND		0.020		mg/L		04/06/20 06:45	04/06/20 16:21	1

Lab Sample ID: LCS 320-370353/2-A
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.250	0.211		mg/L		84	84 - 114

Lab Sample ID: LCS 320-370353/2-A
Matrix: Solid
Analysis Batch: 371163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.250	0.244		mg/L		97	86 - 111

Lab Sample ID: LB 320-369430/1-B
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 370353

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/L		04/06/20 06:45	04/06/20 16:28	1
Chromium	ND		0.10		mg/L		04/06/20 06:45	04/06/20 16:28	1

Lab Sample ID: 720-97726-7 MS
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: HA-3-0.5'
Prep Type: TCLP
Prep Batch: 370353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND	F1	1.25	1.01	F1	mg/L		81	86 - 111
Chromium	ND		1.25	1.07		mg/L		86	84 - 114

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-97726-7 MSD
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: HA-3-0.5'
Prep Type: TCLP
Prep Batch: 370353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND	F1	1.25	1.11		mg/L		89	86 - 111	9	20
Chromium	ND		1.25	1.18		mg/L		94	84 - 114	10	20

Lab Sample ID: LB4 320-369570/1-A ^10
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10		mg/L			04/06/20 23:23	10
Chromium	ND		0.10		mg/L			04/06/20 23:23	10

Lab Sample ID: LCS 320-369570/2-A ^10
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.940		mg/L		94	75 - 125
Chromium	1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 720-97726-1 MS
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: HA-1-0.5'
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.13		1.00	1.13		mg/L		99	75 - 125

Lab Sample ID: 720-97726-1 MSD
Matrix: Solid
Analysis Batch: 370599

Client Sample ID: HA-1-0.5'
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.13		1.00	1.13		mg/L		99	75 - 125	0	20

Lab Sample ID: LB4 320-370414/1-A ^10
Matrix: Solid
Analysis Batch: 371900

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10		mg/L			04/12/20 23:37	10
Chromium	ND		0.10		mg/L			04/12/20 23:37	10

Lab Sample ID: LCS 320-370414/2-A ^10
Matrix: Solid
Analysis Batch: 371900

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.874		mg/L		87	75 - 125
Chromium	1.00	0.945		mg/L		94	75 - 125

QC Association Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

GC Semi VOA

Prep Batch: 280892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-14	HA-5-1.5'	Total/NA	Solid	3546	
MB 720-280892/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-280892/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 280975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-280892/1-A	Method Blank	Total/NA	Solid	8081A	280892
LCS 720-280892/2-A	Lab Control Sample	Total/NA	Solid	8081A	280892

Analysis Batch: 280976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-14	HA-5-1.5'	Total/NA	Solid	8081A	280892

Metals

Leach Batch: 369430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	TCLP	Solid	1311	
720-97726-16	SP-1	TCLP	Solid	1311	
LB 320-369430/1-B	Method Blank	TCLP	Solid	1311	
720-97726-7 MS	HA-3-0.5'	TCLP	Solid	1311	
720-97726-7 MSD	HA-3-0.5'	TCLP	Solid	1311	

Leach Batch: 369570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	STLC Citrate	Solid	CA WET Citrate	
720-97726-4	HA-2-0.5'	STLC Citrate	Solid	CA WET Citrate	
720-97726-13	HA-5-0.5'	STLC Citrate	Solid	CA WET Citrate	
720-97726-17	SP-2	STLC Citrate	Solid	CA WET Citrate	
LB4 320-369570/1-A ^10	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 320-369570/2-A ^10	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
720-97726-1 MS	HA-1-0.5'	STLC Citrate	Solid	CA WET Citrate	
720-97726-1 MSD	HA-1-0.5'	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 370353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	TCLP	Solid	3010A	369430
720-97726-16	SP-1	TCLP	Solid	3010A	369430
LB 320-369430/1-B	Method Blank	TCLP	Solid	3010A	369430
MB 320-370353/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 320-370353/2-A	Lab Control Sample	Total/NA	Solid	3010A	
720-97726-7 MS	HA-3-0.5'	TCLP	Solid	3010A	369430
720-97726-7 MSD	HA-3-0.5'	TCLP	Solid	3010A	369430

Leach Batch: 370414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	STLC Citrate	Solid	CA WET Citrate	
720-97726-16	SP-1	STLC Citrate	Solid	CA WET Citrate	
LB4 320-370414/1-A ^10	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 320-370414/2-A ^10	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	

QC Association Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Metals

Analysis Batch: 370599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-1	HA-1-0.5'	STLC Citrate	Solid	6010B	369570
720-97726-4	HA-2-0.5'	STLC Citrate	Solid	6010B	369570
720-97726-7	HA-3-0.5'	TCLP	Solid	6010B	370353
720-97726-13	HA-5-0.5'	STLC Citrate	Solid	6010B	369570
720-97726-16	SP-1	TCLP	Solid	6010B	370353
720-97726-17	SP-2	STLC Citrate	Solid	6010B	369570
LB 320-369430/1-B	Method Blank	TCLP	Solid	6010B	370353
LB4 320-369570/1-A ^10	Method Blank	STLC Citrate	Solid	6010B	369570
MB 320-370353/1-A	Method Blank	Total/NA	Solid	6010B	370353
LCS 320-369570/2-A ^10	Lab Control Sample	STLC Citrate	Solid	6010B	369570
LCS 320-370353/2-A	Lab Control Sample	Total/NA	Solid	6010B	370353
720-97726-1 MS	HA-1-0.5'	STLC Citrate	Solid	6010B	369570
720-97726-1 MSD	HA-1-0.5'	STLC Citrate	Solid	6010B	369570
720-97726-7 MS	HA-3-0.5'	TCLP	Solid	6010B	370353
720-97726-7 MSD	HA-3-0.5'	TCLP	Solid	6010B	370353

Analysis Batch: 371163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-370353/2-A	Lab Control Sample	Total/NA	Solid	6010B	370353

Analysis Batch: 371900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-7	HA-3-0.5'	STLC Citrate	Solid	6010B	370414
720-97726-16	SP-1	STLC Citrate	Solid	6010B	370414
LB4 320-370414/1-A ^10	Method Blank	STLC Citrate	Solid	6010B	370414
LCS 320-370414/2-A ^10	Lab Control Sample	STLC Citrate	Solid	6010B	370414

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: HA-1-0.5'
Date Collected: 03/10/20 10:55
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.16 g	500 mL	369570	04/03/20 09:52	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			370599	04/07/20 00:46	GSH	TAL SAC

Client Sample ID: HA-2-0.5'
Date Collected: 03/10/20 10:45
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.23 g	500 mL	369570	04/03/20 09:52	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			370599	04/07/20 01:08	GSH	TAL SAC

Client Sample ID: HA-3-0.5'
Date Collected: 03/10/20 10:20
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.01 g	500 mL	370414	04/06/20 14:27	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			371900	04/13/20 02:12	GSH	TAL SAC
TCLP	Leach	1311			100.09 g	2000 mL	369430	04/02/20 14:52	CF	TAL SAC
TCLP	Prep	3010A			10 mL	50 mL	370353	04/06/20 06:45	NIM	TAL SAC
TCLP	Analysis	6010B		1			370599	04/06/20 19:07	GSH	TAL SAC

Client Sample ID: HA-5-0.5'
Date Collected: 03/10/20 10:35
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.17 g	500 mL	369570	04/03/20 09:52	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			370599	04/07/20 01:12	GSH	TAL SAC

Client Sample ID: HA-5-1.5'
Date Collected: 03/10/20 10:37
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.59 g	5 mL	280892	04/02/20 15:17	BMA	TAL PLS
Total/NA	Analysis	8081A		1			280976	04/07/20 09:19	MQL	TAL PLS

Client Sample ID: SP-1
Date Collected: 03/10/20 10:42
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			49.87 g	500 mL	370414	04/06/20 14:27	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			371900	04/13/20 02:16	GSH	TAL SAC

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Client Sample ID: SP-1

Lab Sample ID: 720-97726-16

Date Collected: 03/10/20 10:42

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.37 g	2000 mL	369430	04/02/20 14:52	CF	TAL SAC
TCLP	Prep	3010A			10 mL	50 mL	370353	04/06/20 06:45	NIM	TAL SAC
TCLP	Analysis	6010B		1			370599	04/06/20 19:25	GSH	TAL SAC

Client Sample ID: SP-2

Lab Sample ID: 720-97726-17

Date Collected: 03/10/20 11:03

Matrix: Solid

Date Received: 03/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.23 g	500 mL	369570	04/03/20 09:52	CF	TAL SAC
STLC Citrate	Analysis	6010B		10			370599	04/07/20 01:15	GSH	TAL SAC

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Laboratory: Eurofins TestAmerica, Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2496	01-31-22

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL SAC
1311	TCLP Extraction	SW846	TAL SAC
3010A	Preparation, Total Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL PLS
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL SAC

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
720-97726-1	HA-1-0.5'	Solid	03/10/20 10:55	03/10/20 14:30	
720-97726-4	HA-2-0.5'	Solid	03/10/20 10:45	03/10/20 14:30	
720-97726-7	HA-3-0.5'	Solid	03/10/20 10:20	03/10/20 14:30	
720-97726-13	HA-5-0.5'	Solid	03/10/20 10:35	03/10/20 14:30	
720-97726-14	HA-5-1.5'	Solid	03/10/20 10:37	03/10/20 14:30	
720-97726-16	SP-1	Solid	03/10/20 10:42	03/10/20 14:30	
720-97726-17	SP-2	Solid	03/10/20 11:03	03/10/20 14:30	

Gonzales, Justinn

From: Daniel W. Matthews <dmatthews@geologicagroup.com>
Sent: Wednesday, April 01, 2020 4:28 PM
To: Gonzales, Justinn
Cc: Brian Aubry
Subject: Re: Additional testing job number 720-97726-1

EXTERNAL EMAIL*

Yes, go ahead and run the sample for pesticides

Thanks

Dan

On 4/1/2020 3:52 PM, Gonzales, Justinn wrote:

> Hi Dan,
>
> The pesticides are past holding time, run it past holding time?
>
> Kind Regards,
>
> **Justinn Gonzales**
>
> Project Manager
>
> Eurofins TestAmerica
> 1220 Quarry Lane
> Pleasanton, CA 94566
> USA
>
> Phone: 925-484-1919
>
> E-mail: Justinn.Gonzales@testamericainc.com
> www.EurofinsUS.com| www.TestAmericainc.com
>
> Please note: In order to continue to provide critical testing services, **Eurofins Environment Testing laboratories in the US are maintaining our courier services and continue to sample, analyze and report all test data as usual.** The situation around COVID-19 continues to be fluid and we are continuing to follow local and government mandates as applicable. For up-to-date business information, visit our website and follow us on Facebook and LinkedIn.
>
> Links to use:
>
> **Website:** https://www.eurofinsus.com/environment-testing/
> Facebook: https://www.facebook.com/EurofinsEnvTesting

LinkedIn: https://www.linkedin.com/company/eurofins-env-testing-america/

From: Dan Matthews [mailto:matthews_6445@sbcglobal.net]
Sent: Wednesday, April 01, 2020 2:42 PM
To: Gonzales, Justinn
Cc: Brian Aubry
Subject: Additional testing job number 720-97726-1

EXTERNAL EMAIL*

Justinn:

Can you arrange to perform the following analyses on samples from job 720-97726-1?

WET tests for Chromium: HA-1-0.5,' HA-2-0.5', HA-3-0.5,' HA-5-0.5', SP-1, SP-2

WET tests for Lead: HA-2-0.5', HA-5-0.5', SP-1, SP-2

TCLP Chromium: HA-3-0.5',

TCLP lead: SP-1

metals by EPA 6010

Sample HA-5-1.5' - chlorinated pesticides by EPA 8081A

Standard Turnaround on these samples

Thanks

Dan

* WARNING - EXTERNAL: This email originated from outside of Eurofins TestAmerica. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

--
Daniel W. Matthews, P.G.
Associate Hydrogeologist
Geologica Inc.

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46568.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 720-97726-2
Address: 880 Riverside Parkway,	Due Date Requested: 4/7/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/CA_WET_CIT_180 (MOD) Cr	6010B/1311T_M Cr	6010B/3010A Cr	6010B/CA_WET_CIT_180 (MOD) Lead, Chromium	6010B/1311T_M Lead	6010B/3010A Lead	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
HA-3-0.5' (720-97726-7)	3/10/20	10:20 Pacific		Solid			X	X	X				1	
SP-1 (720-97726-16)	3/10/20	10:42 Pacific		Solid						X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/2/20 1600	FEDEX		04/03/20 945	eta SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: seal	Cooler Temperature(s) °C and Other Remarks: 0.4

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46568.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 720-97726-1
Address: 880 Riverside Parkway,	Due Date Requested: 3/16/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B CAM 17 List, minus Mercury	7471A/7471A_Prep Mercury Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
HA-3-0.5' (720-97726-7)	3/10/20	10:20 Pacific		Solid			X	X	1	
SP-1 (720-97726-16)	3/10/20	10:42 Pacific		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/2/20 1600	ETAPCS		04/03/20 945	eta Sac
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: Seal | Cooler Temperature(s) °C and Other Remarks: 0.4

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Sacramento
Sample Receiving Notes

720-97726 Field Sheet

Tracking # : 1650 0690 6527

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes: _____

Therm. ID: IR stem Corr. Factor: (+ / -) 0 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: seal

Cooler ID: _____

Temp Observed: 0.4 °C Corrected: 0.4 °C

From: Temp Blank ☒ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐
Samples received within holding time?	☒	☐	☐

Initials: MAN Date: 04/03/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
Sample containers have legible labels?	☒	☐	☐
Sample custody seal?	☐	☒	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Samples w/o discrepancies?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐
Non-conformance	**Yes**	**No**	**NA**
NCM Filed?	☐	☐	☒

Initials: JG Date: 4/3/20

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W8-A

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-2

Login Number: 97726
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-2

Login Number: 97726
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento
List Creation: 03/12/20 03:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	obs 2.8 corr 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-97726-3
Client Project/Site: Oakland Road

For:
Geologica Inc
5 Third St., Suite 808
San Francisco, California 94103

Attn: Brian Aubry

Authorized for release by:
4/20/2020 5:12:10 PM

Justinn Gonzales, Project Manager I
(925)484-1919
justinn.gonzales@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-97726-3

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-97726-3

Comments
No additional comments.

Receipt
The samples were received on 3/10/2020 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA
Method 8260B: The following sample was analyzed outside of analytical holding time due to being taken out of hold past holding time: SP-3 (720-97726-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for cis-Chlordane for the following sample: SP-3 (720-97726-18). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: SP-3 (720-97726-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following sample was analyzed outside of analytical holding time. Analysis was requested after the sample holding time had expired: SP-3 (720-97726-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-372468 and analytical batch 320-372945 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Arsenic (As) associated with batch 320-372945 was outside of control limits. The associated sample is: (720-97726-B-18-A PDS).

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-373189 and analytical batch 320-373601 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following sample was analyzed outside of analytical holding time due to it being received out of holding time. SP-3 (720-97726-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 8081A_3546: The following sample was prepared outside of preparation holding time due to analysis requested past holding time: SP-3 (720-97726-18).

Method 8015B_DRO_3546: The following sample was prepared outside of preparation holding time due to analysis requested past holding time: SP-3 (720-97726-18).

Job ID: 720-97726-3 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Client Sample ID: SP-3

Lab Sample ID: 720-97726-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	220	H	22		mg/Kg	10	☼	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	810	H	540		mg/Kg	10	☼	8015B	Total/NA
Dieldrin	14	H	8.7		ug/Kg	4	☼	8081A	Total/NA
4,4'-DDT	250	H	8.7		ug/Kg	4	☼	8081A	Total/NA
4,4'-DDE	660	H	8.7		ug/Kg	4	☼	8081A	Total/NA
4,4'-DDD	390	H	8.7		ug/Kg	4	☼	8081A	Total/NA
cis-Chlordane	9.1	H p	8.7		ug/Kg	4	☼	8081A	Total/NA
trans-Chlordane	28	H	8.7		ug/Kg	4	☼	8081A	Total/NA
Silver	1.8	F1	0.56		mg/Kg	1	☼	6010B	Total/NA
Arsenic	68	F1	2.2		mg/Kg	1	☼	6010B	Total/NA
Barium	160		1.1		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.22		mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2	F1	0.22		mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.56		mg/Kg	1	☼	6010B	Total/NA
Chromium	47		0.56		mg/Kg	1	☼	6010B	Total/NA
Copper	46		1.7		mg/Kg	1	☼	6010B	Total/NA
Nickel	67		1.1		mg/Kg	1	☼	6010B	Total/NA
Lead	80	F1	1.1		mg/Kg	1	☼	6010B	Total/NA
Vanadium	38		0.56		mg/Kg	1	☼	6010B	Total/NA
Zinc	240		2.2		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.14	H F1	0.043		mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-3

Date Collected: 03/10/20 11:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-18

Matrix: Solid
Percent Solids: 92.0

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND	H	270		ug/Kg	☼	04/03/20 17:45	04/04/20 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*	*3	*45 - 131*	*04/03/20 17:45*	*04/04/20 02:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*04/03/20 17:45*	*04/04/20 02:19*	*1*
Toluene-d8 (Surr)	*83*		*58 - 140*	*04/03/20 17:45*	*04/04/20 02:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**	**H**	22		mg/Kg	☼	04/03/20 11:42	04/07/20 17:54	10
Motor Oil Range Organics [C24-C36]	**810**	**H**	540		mg/Kg	☼	04/03/20 11:42	04/07/20 17:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*04/03/20 11:42*	*04/07/20 17:54*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Dieldrin	**14**	**H**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endrin aldehyde	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endrin	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endrin ketone	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Heptachlor	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Heptachlor epoxide	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
4,4'-DDT	**250**	**H**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
4,4'-DDE	**660**	**H**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
4,4'-DDD	**390**	**H**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endosulfan I	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endosulfan II	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
alpha-BHC	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
beta-BHC	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
gamma-BHC (Lindane)	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
delta-BHC	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Endosulfan sulfate	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Methoxychlor	ND	H	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Toxaphene	ND	H	170		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
Chlordane (technical)	ND	H	170		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
cis-Chlordane	**9.1**	**H p**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4
trans-Chlordane	**28**	**H**	8.7		ug/Kg	☼	04/03/20 11:39	04/07/20 11:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*43 - 108*	*04/03/20 11:39*	*04/07/20 11:30*	*4*
DCB Decachlorobiphenyl	*115*	*p*	*25 - 141*	*04/03/20 11:39*	*04/07/20 11:30*	*4*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**1.8**	**F1**	0.56		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Arsenic	**68**	**F1**	2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Barium	**160**		1.1		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Client Sample ID: SP-3
Date Collected: 03/10/20 11:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-18
Matrix: Solid
Percent Solids: 92.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.40		0.22		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Cadmium	1.2	F1	0.22		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Cobalt	10		0.56		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Chromium	47		0.56		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Copper	46		1.7		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Molybdenum	ND	F1	2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Nickel	67		1.1		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Lead	80	F1	1.1		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Selenium	ND	F1	2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Antimony	ND	F1	2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Thallium	ND	F1	2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Vanadium	38		0.56		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1
Zinc	240		2.2		mg/Kg	☼	04/15/20 07:00	04/16/20 13:14	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	H F1	0.043		mg/Kg	☼	04/17/20 13:00	04/20/20 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1		%			04/03/20 16:10	1

Surrogate Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (45-131)	DCA (60-140)	TOL (58-140)
720-97726-18	SP-3	71 *3	115	83
LCS 720-280934/7	Lab Control Sample	93	98	96
LCSD 720-280934/8	Lab Control Sample Dup	93	97	96
MB 720-280934/4	Method Blank	91	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-97726-18	SP-3	0 X D
LCS 720-280928/2-A	Lab Control Sample	116
MB 720-280928/1-A	Method Blank	102

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (43-108)	DCBP2 (25-141)
720-97726-18	SP-3	59	115 p
LCS 720-280892/2-A	Lab Control Sample	78	94
MB 720-280892/1-A	Method Blank	81	93

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-280934/4
Matrix: Solid
Analysis Batch: 280934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		250		ug/Kg			04/03/20 19:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*		*04/03/20 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*04/03/20 19:00*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*04/03/20 19:00*	*1*

Lab Sample ID: LCS 720-280934/7
Matrix: Solid
Analysis Batch: 280934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	883		ug/Kg		88	70 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-280934/8
Matrix: Solid
Analysis Batch: 280934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	872		ug/Kg		87	70 - 122	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-280928/1-A
Matrix: Solid
Analysis Batch: 280987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0		mg/Kg		04/03/20 11:42	04/07/20 13:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		04/03/20 11:42	04/07/20 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*04/03/20 11:42*	*04/07/20 13:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-280928/2-A
Matrix: Solid
Analysis Batch: 280987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	148		mg/Kg		89	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-280892/1-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Dieldrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin aldehyde	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endrin ketone	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Heptachlor	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDT	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDE	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
4,4'-DDD	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan I	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan II	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
alpha-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
beta-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
delta-BHC	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Methoxychlor	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Toxaphene	ND		40		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
Chlordane (technical)	ND		40		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
cis-Chlordane	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1
trans-Chlordane	ND		2.0		ug/Kg		04/02/20 15:17	04/06/20 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*43 - 108*	*04/02/20 15:17*	*04/06/20 17:35*	*1*
DCB Decachlorobiphenyl	*93*		*25 - 141*	*04/02/20 15:17*	*04/06/20 17:35*	*1*

Lab Sample ID: LCS 720-280892/2-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.5		ug/Kg		87	56 - 100
Dieldrin	16.7	15.1		ug/Kg		91	67 - 113
Endrin aldehyde	16.7	16.6		ug/Kg		99	74 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-280892/2-A
Matrix: Solid
Analysis Batch: 280975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	16.7	15.1		ug/Kg		91	68 - 120
Endrin ketone	16.7	15.6		ug/Kg		93	66 - 122
Heptachlor	16.7	13.7		ug/Kg		82	62 - 106
Heptachlor epoxide	16.7	14.7		ug/Kg		88	68 - 110
4,4'-DDT	16.7	15.7		ug/Kg		94	63 - 115
4,4'-DDE	16.7	15.4		ug/Kg		92	66 - 114
4,4'-DDD	16.7	15.5		ug/Kg		93	67 - 120
Endosulfan I	16.7	14.8		ug/Kg		89	69 - 113
Endosulfan II	16.7	15.3		ug/Kg		92	71 - 120
alpha-BHC	16.7	13.4		ug/Kg		81	58 - 110
beta-BHC	16.7	15.4		ug/Kg		92	71 - 114
gamma-BHC (Lindane)	16.7	14.4		ug/Kg		86	62 - 103
delta-BHC	16.7	14.6		ug/Kg		88	48 - 109
Endosulfan sulfate	16.7	15.9		ug/Kg		96	68 - 121
Methoxychlor	16.7	16.2		ug/Kg		97	65 - 132
cis-Chlordane	16.7	14.9		ug/Kg		89	66 - 110
trans-Chlordane	16.7	14.7		ug/Kg		88	64 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*43 - 108*
DCB Decachlorobiphenyl	*94*		*25 - 141*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-372468/1-A
Matrix: Solid
Analysis Batch: 372945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Arsenic	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Barium	ND		1.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Beryllium	ND		0.20		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Cadmium	ND		0.20		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Cobalt	ND		0.50		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Chromium	ND		0.50		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Copper	ND		1.5		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Molybdenum	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Nickel	ND		1.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Lead	ND		1.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Selenium	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Antimony	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Thallium	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Vanadium	ND		0.50		mg/Kg		04/15/20 07:00	04/16/20 13:06	1
Zinc	ND		2.0		mg/Kg		04/15/20 07:00	04/16/20 13:06	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-372468/2-A
Matrix: Solid
Analysis Batch: 372945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.98	4.63		mg/Kg		93	80 - 120
Arsenic	50.0	46.5		mg/Kg		93	80 - 120
Barium	50.0	46.8		mg/Kg		94	80 - 120
Beryllium	25.0	23.6		mg/Kg		94	80 - 120
Cadmium	25.0	23.5		mg/Kg		94	80 - 120
Cobalt	25.0	23.2		mg/Kg		93	80 - 120
Chromium	25.0	23.9		mg/Kg		96	80 - 120
Copper	25.0	22.7		mg/Kg		91	80 - 120
Molybdenum	25.0	23.7		mg/Kg		95	80 - 120
Nickel	25.0	23.1		mg/Kg		92	80 - 120
Lead	25.0	23.7		mg/Kg		95	80 - 120
Selenium	50.0	47.4		mg/Kg		95	80 - 120
Antimony	49.8	48.1		mg/Kg		97	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	25.0	23.6		mg/Kg		94	80 - 120
Zinc	50.3	47.5		mg/Kg		94	80 - 120

Lab Sample ID: 720-97726-18 MS
Matrix: Solid
Analysis Batch: 372945

Client Sample ID: SP-3
Prep Type: Total/NA
Prep Batch: 372468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	1.8	F1	5.16	5.63	F1	mg/Kg	☼	74	80 - 120
Arsenic	68	F1	51.8	117		mg/Kg	☼	93	80 - 120
Barium	160		51.8	209		mg/Kg	☼	86	80 - 120
Beryllium	0.40		25.9	21.7		mg/Kg	☼	82	80 - 120
Cadmium	1.2	F1	25.9	21.5	F1	mg/Kg	☼	79	80 - 120
Cobalt	10		25.9	33.8		mg/Kg	☼	90	80 - 120
Chromium	47		25.9	72.6		mg/Kg	☼	100	80 - 120
Copper	46		25.9	71.8		mg/Kg	☼	98	80 - 120
Molybdenum	ND	F1	25.9	21.8	F1	mg/Kg	☼	77	80 - 120
Nickel	67		25.9	91.6		mg/Kg	☼	95	80 - 120
Lead	80	F1	25.9	90.0	F1	mg/Kg	☼	37	80 - 120
Selenium	ND	F1	51.8	41.4		mg/Kg	☼	80	80 - 120
Antimony	ND	F1	51.6	10.1	F1	mg/Kg	☼	20	80 - 120
Thallium	ND	F1	51.8	41.6		mg/Kg	☼	80	80 - 120
Vanadium	38		25.9	62.3		mg/Kg	☼	93	80 - 120
Zinc	240		52.0	239	4	mg/Kg	☼	1	80 - 120

Lab Sample ID: 720-97726-18 MSD
Matrix: Solid
Analysis Batch: 372945

Client Sample ID: SP-3
Prep Type: Total/NA
Prep Batch: 372468

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	1.8	F1	5.47	5.16	F1	mg/Kg	☼	61	80 - 120	9	35
Arsenic	68	F1	54.9	89.8	F1	mg/Kg	☼	39	80 - 120	26	35
Barium	160		54.9	218		mg/Kg	☼	98	80 - 120	4	35
Beryllium	0.40		27.5	22.7		mg/Kg	☼	81	80 - 120	4	35
Cadmium	1.2	F1	27.5	22.1	F1	mg/Kg	☼	76	80 - 120	3	35

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-97726-18 MSD — **Client Sample ID: SP-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 372945 — **Prep Batch: 372468**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	10		27.5	34.1		mg/Kg	☼	86	80 - 120	1	35
Chromium	47		27.5	77.7		mg/Kg	☼	113	80 - 120	7	35
Copper	46		27.5	68.4		mg/Kg	☼	80	80 - 120	5	35
Molybdenum	ND	F1	27.5	22.2	F1	mg/Kg	☼	74	80 - 120	1	35
Nickel	67		27.5	99.2		mg/Kg	☼	117	80 - 120	8	35
Lead	80	F1	27.5	89.6	F1	mg/Kg	☼	33	80 - 120	0	35
Selenium	ND	F1	54.9	43.3	F1	mg/Kg	☼	79	80 - 120	4	35
Antimony	ND	F1	54.7	10.1	F1	mg/Kg	☼	18	80 - 120	1	35
Thallium	ND	F1	54.9	43.3	F1	mg/Kg	☼	79	80 - 120	4	35
Vanadium	38		27.5	65.8		mg/Kg	☼	101	80 - 120	6	35
Zinc	240		55.2	234	4	mg/Kg	☼	-9	80 - 120	2	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-373189/11-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 373601 — **Prep Batch: 373189**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040		mg/Kg		04/17/20 13:00	04/20/20 10:27	1

Lab Sample ID: LCS 320-373189/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 373601 — **Prep Batch: 373189**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.167		mg/Kg		100	86 - 114

Lab Sample ID: LCSD 320-373189/13-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 373601 — **Prep Batch: 373189**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.183		mg/Kg		110	86 - 114	10	17

Lab Sample ID: 720-97726-18 MS — **Client Sample ID: SP-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 373601 — **Prep Batch: 373189**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.14	H F1	0.187	0.380	F1	mg/Kg	☼	128	86 - 114

Lab Sample ID: 720-97726-18 MSD — **Client Sample ID: SP-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 373601 — **Prep Batch: 373189**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.14	H F1	0.173	0.397	F1	mg/Kg	☼	149	86 - 114	4	17

GC/MS VOA

Prep Batch: 280927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	5030B	

Analysis Batch: 280934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	8260B/CA_LUFT MS	280927
MB 720-280934/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-280934/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-280934/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 280892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	3546	
MB 720-280892/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-280892/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 280928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	3546	
MB 720-280928/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-280928/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 280975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-280892/1-A	Method Blank	Total/NA	Solid	8081A	280892
LCS 720-280892/2-A	Lab Control Sample	Total/NA	Solid	8081A	280892

Analysis Batch: 280976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	8081A	280892

Analysis Batch: 280986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	8015B	280928

Analysis Batch: 280987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-280928/1-A	Method Blank	Total/NA	Solid	8015B	280928
LCS 720-280928/2-A	Lab Control Sample	Total/NA	Solid	8015B	280928

Metals

Prep Batch: 372468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	3050B	
MB 320-372468/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-372468/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-97726-18 MS	SP-3	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 372468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18 MSD	SP-3	Total/NA	Solid	3050B	

Analysis Batch: 372945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	6010B	372468
MB 320-372468/1-A	Method Blank	Total/NA	Solid	6010B	372468
LCS 320-372468/2-A	Lab Control Sample	Total/NA	Solid	6010B	372468
720-97726-18 MS	SP-3	Total/NA	Solid	6010B	372468
720-97726-18 MSD	SP-3	Total/NA	Solid	6010B	372468

Prep Batch: 373189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	7471A	
MB 320-373189/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-373189/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-373189/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-97726-18 MS	SP-3	Total/NA	Solid	7471A	
720-97726-18 MSD	SP-3	Total/NA	Solid	7471A	

Analysis Batch: 373601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	7471A	373189
MB 320-373189/11-A	Method Blank	Total/NA	Solid	7471A	373189
LCS 320-373189/12-A	Lab Control Sample	Total/NA	Solid	7471A	373189
LCSD 320-373189/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	373189
720-97726-18 MS	SP-3	Total/NA	Solid	7471A	373189
720-97726-18 MSD	SP-3	Total/NA	Solid	7471A	373189

General Chemistry

Analysis Batch: 280921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-97726-18	SP-3	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Client Sample ID: SP-3
Date Collected: 03/10/20 11:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			280921	04/03/20 16:10	NAT	TAL PLS

Client Sample ID: SP-3
Date Collected: 03/10/20 11:05
Date Received: 03/10/20 14:30

Lab Sample ID: 720-97726-18
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	10 mL	280927	04/03/20 17:45	NAT	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	280934	04/04/20 02:19	A1C	TAL PLS
Total/NA	Prep	3546			15.05 g	2 mL	280928	04/03/20 11:42	BMA	TAL PLS
Total/NA	Analysis	8015B		10			280986	04/07/20 17:54	JXL	TAL PLS
Total/NA	Prep	3546			15.07 g	5 mL	280892	04/03/20 11:39	BMA	TAL PLS
Total/NA	Analysis	8081A		4			280976	04/07/20 11:30	MQL	TAL PLS
Total/NA	Prep	3050B			0.97 g	100 mL	372468	04/15/20 07:00	NIM	TAL SAC
Total/NA	Analysis	6010B		1			372945	04/16/20 13:14	GSH	TAL SAC
Total/NA	Prep	7471A			0.61 g	50 mL	373189	04/17/20 13:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			373601	04/20/20 10:34	IM	TAL SAC

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2496	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geologica Inc
Project/Site: Oakland Road

Job ID: 720-97726-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
720-97726-18	SP-3	Solid	03/10/20 11:05	03/10/20 14:30	

Gonzales, Justinn

From: Daniel W. Matthews <dmatthews@geologicagroup.com>
Sent: Thursday, April 02, 2020 5:34 PM
To: Gonzales, Justinn
Cc: Brian Aubry
Subject: another sample to test from job 720-97726-1

EXTERNAL EMAIL*

Justinn:

Please test sample SP-3 for TPH-gas, diesel, and motor oil, chlorinated pesticides by EPA 8081, and CAM 17 metals by EPA 6010, report results on a dry weight basis

flag analyses that are out of hold

Call or email for direction ASAP if any metals exceed 10x STLC or 20x TCLP so we can do leachate testing if warranted

standard turnaround

Thanks

Dan

--
Daniel W. Matthews, P.G.
Associate Hydrogeologist
Geologica Inc.

New Address!
5 Third St., Suite 808
San Francisco, CA 94103
mobile: 415-279-2694
fax: 888-858-1382
dmatthews@geologicagroup.com

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46568.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 720-97726-2
Address: 880 Riverside Parkway,	Due Date Requested: 4/7/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/CA_WET_CIT_180 (MOD) Cr	6010B/1311T_M Cr	6010B/3010A Cr	6010B/CA_WET_CIT_180 (MOD) Lead, Chromium	6010B/1311T_M Lead	6010B/3010A Lead	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
HA-3-0.5' (720-97726-7)	3/10/20	10:20 Pacific		Solid			X	X	X				1	
SP-1 (720-97726-16)	3/10/20	10:42 Pacific		Solid						X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/2/20 1600	FEDEX		04/03/20 945	eta SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: seal	Cooler Temperature(s) °C and Other Remarks: 0.4

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46568.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 720-97726-1
Address: 880 Riverside Parkway,	Due Date Requested: 3/16/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B CAM 17 List, minus Mercury	7471A/7471A_Prep Mercury Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
HA-3-0.5' (720-97726-7)	3/10/20	10:20 Pacific		Solid			X	X	1	
SP-1 (720-97726-16)	3/10/20	10:42 Pacific		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/2/20 1600	ETAS		04/03/20 945	eta Sac
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: Seal | Cooler Temperature(s) °C and Other Remarks: 0.4

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone: 925-484-1919 Fax: 925-600-3002

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gonzales, Justinn	Carrier Tracking No(s):	COC No: 720-46732.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: justinn.gonzales@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 720-97726-3
Address: 880 Riverside Parkway,	Due Date Requested: 4/9/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Oakland Road	Project #: 72015191			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B CAM 17 List, minus Mercury	7471A/7471A_Prep Mercury Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SP-3 (720-97726-18)	3/10/20	11:05 Pacific		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/14/20 1402	EDF		4/14/20	14:05
2		4/14/20 1600			4/14/20 1605	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4C

Ver: 01/16/2019

eurofins | Environment Testing TestAmerica

Sacramento
Sample Receiving Notes

720-97726 Field Sheet

Tracking # : 1650 0690 6527

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes: _____

Therm. ID: IR stem Corr. Factor: (+ / -) 0 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: seal

Cooler ID: _____

Temp Observed: 0.4 °C Corrected: 0.4 °C

From: Temp Blank ☒ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐
Samples received within holding time?	☒	☐	☐

Initials: MAN Date: 04/03/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
Sample containers have legible labels?	☒	☐	☐
Sample custody seal?	☐	☒	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Samples w/o discrepancies?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐
Non-conformance	**Yes**	**No**	**NA**
NCM Filed?	☐	☐	☒

Initials: JG Date: 4/3/20

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W8-A

eurofins | Environment Testing TestAmerica

Sacramento Sample Receiving Notes

720-97726 Field Sheet

Job: _____

Tracking # : NA

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier DH 4/14/20

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK12 Corr. Factor: (+ / -) 0 °C

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: —

Cooler ID: —

Temp Observed: 2.4 °C Corrected: 2.4 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Samples received within holding time?	☑	☐	☐

Initials: DH Date: 4/14/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☐	☐	☑

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DH Date: 4/14/20

Notes: _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: DH Date: 4/14/20

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-3

Login Number: 97726
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-3

Login Number: 97726
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento
List Creation: 03/12/20 03:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	obs 2.8 corr 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-97726-3

Login Number: 97726
List Number: 3
Creator: Her, David A

List Source: Eurofins TestAmerica, Sacramento
List Creation: 04/14/20 04:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

geologica

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