

San Lorenzo Unified School District

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July 10, 2012

Mr. Mark Detterman Alameda County health Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE: Soil and Groundwater Report San Lorenzo High School 50 E. Lewelling Blvd. San Lorenzo, California **RECEIVED**

9:05 am, Jul 12, 2012

Alameda County Environmental Health

Dear Mr. Detterman,

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report and correct to the best of my knowledge.

Sincerely,

Karen Langmaid
Director of Operations

San Lorenzo Unified School District



Mr. Mark Detterman Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577 July 16,2012 Project 409-01.02

RE: Soil and Groundwater Investigation
San Lorenzo High School
50 E. Lewelling Blvd.
San Lorenzo, California

Dear Mr. Detterman,

EquoLogic, on behalf of the San Lorenzo Unified School District (SLUSD), presents this soil and groundwater investigation report for San Lorenzo High School, San Lorenzo, California. The work was requested by Alameda County Health Services Agency (ACHSA) in a letter to SLUSD dated January 5, 2012. A work plan prepared by EquoLogic was approved by ACHSA in a letter to SLUSD dated April 11, 2012.

BACKGROUND

On August 18, 2010, a 6,000-gallon heating oil underground storage tank (UST) was removed from San Lorenzo High School. The location of San Lorenzo High School (Site) is shown on **Figure 1**. The excavation and tank removal were documented in a report by Golden Gate Tank Removal, Inc. (GGTR) titled *Closure Report for Underground Storage Tank, 50 E Lowelling Boulevard, San Lorenzo, CA 94580* dated October 19, 2010. After removal of the UST, confirmation soil samples were collected at a depth of 12 feet below grade (bg). Samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d) and as motor oil (TPH-mo). TPH in either TPH-d or TPH-mo carbon range could be heating oil. TPH-d concentrations were found up to 3,470 milligrams per kilogram (mg/kg) in soil and is assumed to represent heating oil. TPH-mo was not detected in soil samples. Additionally benzene, toluene, ethylbenzene, and xylene (BTEX) and fuel oxygenates were analyzed for, however, all were non-

detectable at varying limits of detection. A grab groundwater was collected from the UST excavation. The sample was analyzed for TPH-d and TPH-mo, BTEX, and fuel oxygenates. TPH-d was detected at 12.1 parts per million (ppm). All other parameters were below the method detection limit.

SCOPE OF WORK

EquoLogic sampled soil and groundwater in the area of the former UST and remote fill port in order to establish the lateral and vertical extent of petroleum hydrocarbons. The following section lists the tasks performed.

Pre-field

- Selection and scheduling of drilling company (Vironex)
- Preparation of Health and Safety Plan
- Obtained drilling permit from County (Attachment A)
- Notified ACHSA of work schedule/inspection
- Notified Underground Service Alert (USA)

Field Work

- Marked boring locations in the field
- Performed underground utility survey
- Drilled four direct-push borings (B-1 through B-4) to a depth of approximately 20 to 24 feet bgs (Figure 2). Boring logs are provided as Attachment B.
- Collected soil samples at 5-foot depth intervals using a steel drive sampler equipped with a fourfoot long acetate liner. Samples were cut from the liner and sealed with tight fitting plastic caps. Samples were placed on ice for transportation to the laboratory under chain of custody documentation.
- Obtained photo-ionization detector (PID) readings for soil samples collected. Readings are shown on the boring logs in Attachment B.
- Collected a groundwater sample from each boring using a temporary casing and peristaltic pump. Samples were placed on ice for transportation to the laboratory under chain of custody documentation.
- Analyzed all collected soil samples and the four water samples for a broad range of petroleum hydrocarbons including diesel, motor oil, mineral spirits, and kerosene and, BTEX compounds, and MTBE all by US EPA Method 8015B. The laboratory reported that there is no specific test

- for heating oil. Heating oil is recognized by a chromatographic spike between diesel and motor oil. Samples containing this spike were identified on the laboratory report (Appendix C).
- Upon completion of sampling, boreholes were backfilled with concrete grout. All borehole
 grouting activities were supervised by Mr. Steve Miller of the Alameda County Public Works
 Agency.

RESULTS

The following section presents the results of the soil and water investigation.

Soil and Groundwater

Borings encountered primarily clay and silt soil deposits (see boring logs). A fine sandy soil layer was encountered in the depth interval of approximately 9 to 13 feet bg. Groundwater was encountered at a depth of approximately 10 feet bgs, perched within the sandy layer overlying a low permeability clay.

Soil Analtyical Results

All PID readings for soil samples were zero. Soil analytical data is summarized on **Table 1**. Heating oil was identified in only one soil sample – Boring B-1 at 5 feet bg. Hydrocarbons were quantified by the laboratory as 1760 milligrams per kilogram (mg/kg) TPH-d and 1610 mg/kg TPH-mo. BTEX and MTBE were below the method detection limit in all samples with the exception of 17.2 mg/kg xylene in B-1 at 5 feet bgs.

Water Analytical Results

A summary of water analytical data is summarized on **Table 1**. Heating oil was not identified in any of the four groundwater samples. BTEX compounds and MTBE were all below the method detection limit with the exception of ethylbenzene at 0.25 micrograms per liter (ug/l)and xylene at 0.78 ug/l in the water sample from boring B-3.

CONCLUSIONS

Heating oil is confined to near surface soil in the area of the remote fill port. Groundwater in the area of the fill port is not impacted. EquoLogic recommends the UST case be closed and no further action required.

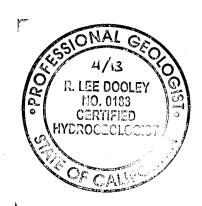
LIMITATIONS

The descriptions, conclusions, and recommendations contained in this report represent EquoLogic's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by EquoLogic, the data from those reports is used "as is" and is assumed to be accurate. This report is based upon a specific scope of work requested by the client. The Contract between EquoLogic and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of EquoLogic's Client and anyone else specifically listed on this report. EquoLogic will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, EquoLogic makes no express or implied warranty as to the contents of this report.

You can contact me at (408) 656-2505 or by email at Idooley@equologicgroup.com.

Sincerely,

Lee Dooley Senior Hydrogeologist CHG 183



Attachments

Table 1 – Summary of Analtyical Data

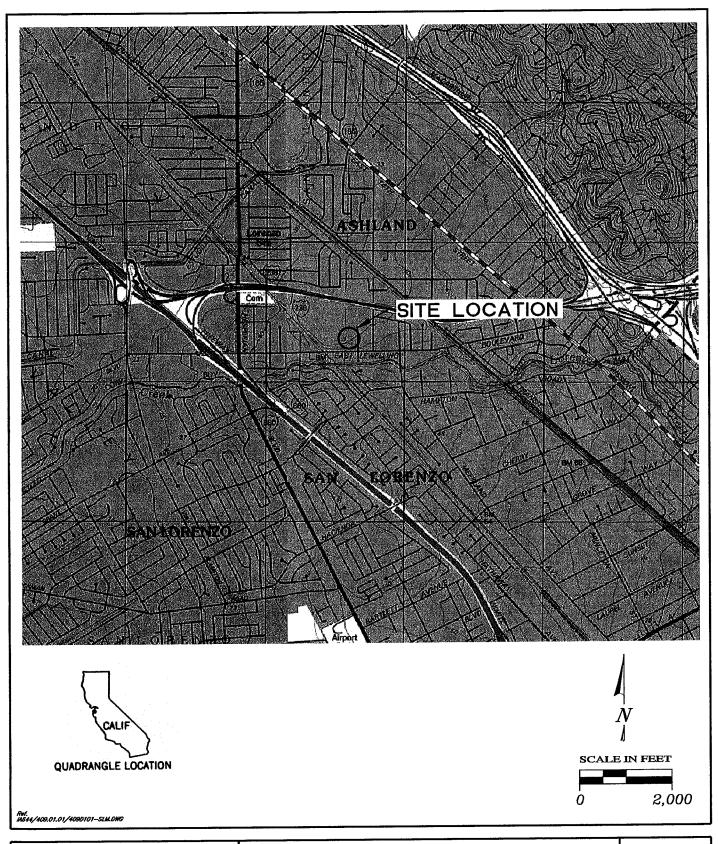
Figure 1 – Site Location Map

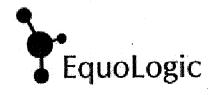
Figure 2 - Boring Location Map

Attachment A – Boring Permit

Attachment B - Boring Logs

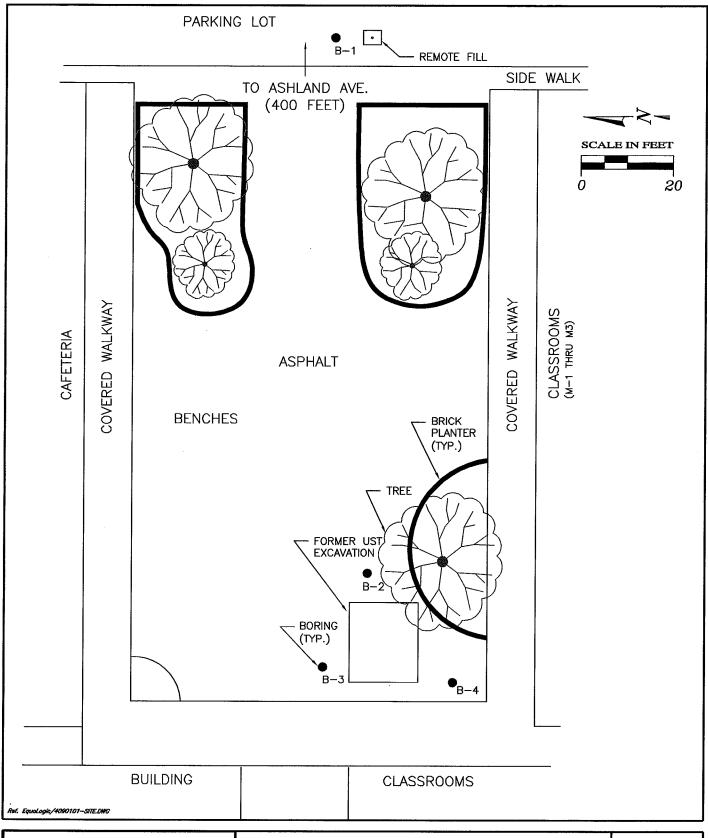
Attachment C – Laboratory Report





SITE LOCATION MAP

SAN LORENZO HIGH SCHOOL 50 E. LOWELLING BLVD SAN LORENZO, CALIFORNIA FIGURE: 1 PROJECT: 409.01.01



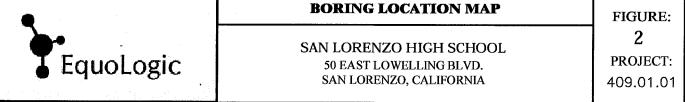


TABLE 1 - Summary of Analytical Data

Jul 02, 2012 16:39 pm			B2-45	C22290-8 C22290-9 C22290-6 C22290-6 C S22290-8 Soil Soil Soil)) ND (0.49) ND (0.50) ND (0.50) ND (0.49) ND (0.50) ND (0.49) ND (0.50) ND (0.50) ND (0.49) ND (0.50) ND (0.49) ND (0.50) ND (0.50) ND (0.49) ND (0.50)
	6/12/2012 6/12/2012 er Ground Water	ND (0.20) ND (0.20) ND (0.20) ND (0.46) ND (0.20)	ND (0.063) ND (0.13) ND (0.063) ND (0.063) ND (0.063)	C22290-1 (ND (2.4) ND (0.49) ND (2.4) ND (0.49) ND (2.4) ND (0.49)
orenzo, CA	B-2 B-3 C22290-16 C22290-16 6/12/2012 6/12/2012 Ground Water Ground Water	ND (0.20) ND (0.20) ND (0.20) ND (0.20) ND (0.20) 0.25 3 ND (0.46) 0.78 3 ND (0.20) ND (0.20)	ND (0.053) 0.0588 J ND (0.11) ND (0.11) ND (0.053) ND (0.056) ND (0.053) ND (0.056) B-1-15 B-1-20		ND (0.50) ND (0.50) ND (0.50) ND (0.50) ND (0.50) ND (0.50)
rn California,Inc. C22290 EquoLogic San Lorenzo High - San Lorenzo, CA 409.01.01	B-1 C22290-5 6/12/2012 Ground Water Gr	ND (0.20) ND (0.20) ND (0.20) ND (0.46) ND (0.20)	0.157 ND (0.10) ND (0.050) ND (0.050)		ND (0.50) ND (0.50) ND (0.50)
Accutest Northern California,Inc. Job Number: C22290 Account EquoLogic Project Project Number: 409,01.01	Client Sample ID: Lab Sample ID: Date Sampled: Matrix:	Benzene ug/l Toluene ug/l Ethylbenzene ug/l Xylene (total) ug/l	TPH (Diesel) mg/l TPH (Motor Oil) mg/l TPH (Mineral Spirits) mg/l TPH (Kerosene) mg/l	Lab Sample ID: Date Sampled: Matrix:	Benzene ug/kg Toluene ug/kg Ethylbenzene ug/kg

(96.0) UN (0.98) ND (0.98) ND (0.98)	ND (5.0)	ND (5.0)	B.4.5' C22230:17 6/12/2012 Soil	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.97)		ND (5.0)	(6.9) ND (6.9)	ND (5.0)	ND (A)
(86.0) QN	ND (5.0) ND (10)	ND (5.0)	B-4-20' C222290-20 6/12/2012 Soil	ND (0.49)	ND (0.49)	ND (0.49) ND (0.98)	(86.0) QN		(0.3) QN	(6:6) QN	ND (5.0)	(0.5) QN
(0:33) ND	ND (4.9) ND (9.9)	ND (4.9)	8-4-15' C22290-19 6/12/2012 Soil	ND (0.50)	ND (0.50)	ND (0.50) ND (1.0)	ND (1.0)		(6'4) QN	(6:6) QN	ND (4.9)	ND (4.9)
ND (4.7)	1760 1610 NO (200)	ND (200)	B-4-10° C22290-18 6/12/2012 Soil	ND (0.48)	ND (0.48)	ND (0.48) ND (0.97)	(26.0) QN		ND (5.0)	ND (10)	ND (5.0)	ND (5.0)
ND (0.99)	ND (5.0) ND (9.9)	ND (5.0)	B-3-24* C22290-15 6/12/2012 Soil	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.98)		5.80 J	(6.6) QN	ND (5.0)	ND (5.0)
ND (0.99)	ND (5.0) ND (10)	ND (5.0)	B-3-20' C22290-14 6/12/2012 Soil	ND (0.50)	ND (0.50)	ND (0.50) ND (1.0)	ND (1.0)		ND (4.9)	(8.6) QN	ND (4.9)	ND (4.9)
(66.0) QN	ND (5.0) ND (10)	ND (5.0)	B-3-15' C22290-13 6/12/2012 Soil	ND (0.49)	ND (0.49)	ND (0.49) ND (0.98)	ND (0.98)		5.00 J	(6.6) QN	ND (5.0)	ND (5.0)
ug/kg	mg/kg mg/kg	mg/kg		ug/kg	ug/kg	ug/kg	ug/kg		mg/kg	mg/kg	mg/kg	ma/ka
Methyl Tert Butyl Ether ug/kg	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits)	TPH (Kerosene)	Client Sample ID: Lab Sample ID: Date Sampled:	Benzene	Toluene	Etnylbenzene Xvlene (total)	Methyl Tert Butyl Ether		TPH (Diesel)	TPH (Motor Oil)	TPH (Mineral Spirits)	TPH (Kerosene)

ATTACHMENT A

BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/06/2012 By jamesy

Permit Numbers: W2012-0361

Permits Valid from 06/12/2012 to 06/12/2012

Application Id: Site Location:

1338846359098

City of Project Site:San Lorenzo

Project Start Date:

50 E Lewelling Blvd, San Lorenzo, CA 06/12/2012

Completion Date: 06/12/2012

Assigned Inspector:

Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant:

EquoLogic - Lee Dooley

Phone: 408-656-2505

15936 Barry Ln, Monte Sereno, CA 95030

Property Owner:

San Lorenzo Unified School District

Phone: 510-317-4600

Client:

15510 Usher St., San Lorenzo, CA 94580 ** same as Property Owner **

Total Due:

\$265.00

Receipt Number: WR2012-0164

Total Amount Paid:

\$265.00

Payer Name: Equo Logic Group Paid By: CHECK

PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 4 Boreholes

Driller: Vironex - Lic #: 705927 - Method: other

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-	06/06/2012	09/10/2012	4	2.00 in.	25.00 ft
0361					

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least

Alameda County Public Works Agency - Water Resources Well Permit

five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

- 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

ATTACHMENT B

BORING LOGS

Client: San Lorenzo Uman School Dutrie Project No: 409-0 (.0) Location: San Locenzo High School Logged By: Matt Pawlus Date Drilled: 6-(2-(2VIronex Drilling Method: Direct Rish Hole Diameter: \.5" Boring Sampling Method: Hole Depth: 24 B-1 Casing Type: WA Well Diameter: NA Well Depth: №A Slot Size: WA EquoLogic Gravel Pack: NA Casing Stickup: N 何 Elevation Easting Well PID Reading (ppm) Penetration (blows/6") Sample Completion Soil Type Static Recovery interval LITHOLOGY / DESCRIPTION Water Level Asphalt + baserack. Hand auger to 5' FL a CLAY, dork olive-black, 90% low plasticity first, (10% very fine sand damp, stiff, product odor (brown, soft, damp, NPO MI Sandy SILT, dark olive brown, 60-70% low plasticity fires; 30-40% v. fire sand soft, v. moist ø (Increasing sand) v. moist to wet) 11 12 13 Ø Sandy CLAY, black, "10% medium plasticity fires, 10% Fire sand 16 19 20 Bottom of Boung

Client: San Lorenzo Union School Detrot Project No: 409,01,01 Location: San Lachzo H-5. Logged By: Matt Pawlys Date Drilled: 6-12-12 Driller: VILOUGX Boring Hole Diameter: 1.5" Drilling Method: りょった たっか Sampling Method: " Hole Depth: 24 B-2 Well Diameter: NA Casing Type: VA NA Well Depth: NA Slot Size: EquoLogic Casing Stickup: ∼A Gravel Pack: NA Northing Easting Elevation Well PID Reading (ppm) Penetration (blows/6") Sample Depth (feet) Soil Type Completion Moisture Content Static LITHOLOGY / DESCRIPTION Water Level Asphott baserod; hand auger to 5' Sandy CLAY to clayer SAND, dark brown, 50% fine sand, damp NPD Silty SAND, down yellowoh brown SM 30-40% low plasticity finds, 60-70% very fine sand, damp MPO Ø Sandy SILT, dark brown, 60-70% ML low plasticity fires, 30 40% very fine sand, damp, NPO φ 5M Silty SAND (as above), very domp 11 (medium sand) (very moist) 12 CL CLAY with sand dark graget black with light gray mottling low plasticity fines; I fine sand NPO 17 SUSSECTION OF THE CONTROL 20 (10 to 15% fine sand stiff) 21 Bottom of Boring

Client: San Lorenzo Union School Project No: 409.01.01 Logged By: Matt Pawlus Location: Son Lorenzo H.S. Page 🕽 🌡 Driller: Unanex Date Drilled: 6 - 12 - 12 Drilling Method: Direct push Hole Diameter: 1.5" Boring Sampling Method: " Hole Depth: 241 Well Diameter: NA B-3 Casing Type: NA Slot Size: NA Well Depth: M EquoLogic Casing Stickup: MA Gravel Pack: NA Northing Easting Elevation Well PID Reading (ppm) Penetration (blows/6") Sample Completion Moisture Content Soil Type Static LITHOLOGY / DESCRIPTION Water Level Aspholt and baserody; hand augel to 5' FL CL Gravely sandy CLAY) 60% low plasticity fines, 20% fine sand, 20% gravel damp, NPO sandy CLAY, 60-70% low plasticity fines, 30 to 40% fine sand (5 to 10' no recovery Sitty SAND, dark olive brown, 30-40% row plasticity fire, 60-70% very fine 5M Ø 10 Sandy SILT, darl olive brown, 60-70% low plasticity fires, 30-40% ven fine Sand, wet ML 13 ϕ 15 16 dark plue brown, 790% CL < 10% ven fine damp, NPO 34.540 (1) total or 18 19 20 Bottom of Borno

Client: San Lercazo Union School Project No: 409.01.01 Location: San Lorenzo High School Borns Page | of | Logged By: Math Paylus Date Drilled: 6-12-12 B-4 Driller: Vitonex Hole Diameter: 1.5 Drilling Method: Direct Push Sampling Method: " Hole Depth: Well Diameter: NA Casing Type: NA Slot Size: NA Well Depth: **S** EquoLogic Casing Stickup: NA Gravel Pack: NA Northing Easting Elevation Well PID Reading (ppm) Penetration (blows/6") Sample Moisture Content Depth (feet) Soil Type Completion Static Recovery LITHOLOGY / DESCRIPTION Water Level Asphat , bascrock - hand auger to 5' CLAY: > 90% low plasticity fines stiff, slightly damp: NPO CL CLEC Sandy CLAY/Clayer SAND; V. dord brown; 50% low placethety fines SILT: V. dark brown; >50% low ML placify fines, soft, damp, NPO Ø Silty SAND; dark gray SM) \$ 10 platenty fines ∇ SILT (co above) wat SM 12 Silty SAND (as above) 13 CLAY; dark dive brown; >50% CL medium plasticity fines, <10% v. fine ф 15 sand, stiff, NPO 16 CONTRACTOR OF THE SPRESSION FOR COMMUNICATION (black with light gray mothling) ф 20 Bottom of Borna 21 11/100 groundwater encountered

ATTACHMENT C

LABORATORY REPORT



07/02/12





Technical Report for

EquoLogic

San Lorenzo High - San Lorenzo, CA

409.01.01

Accutest Job Number: C22290

Sampling Date: 06/12/12

Report to:

EquoLogic 15936 Barry Lane Monte Sereno, CA 95030 Idooley@equologicgroup.com

ATTN: Lee Dooley

Total number of pages in report: 78



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

in gamely

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Northern California • 2105 Lundy Ave. • San Jose, CA 95131 • tel: 408-588-0200 • fax: 408-588-0201 • http://www.accutest.com

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Sample Summary

EquoLogic

Job No:

C22290

San Lorenzo High - San Lorenzo, CA Project No: 409.01.01

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
C22290-1	06/12/12	00:00 MP	06/14/12	so	Soil	B-1-5'
C22290-2	06/12/12	00:00 MP	06/14/12	so	Soil	B-1-10 ¹
C22290-3	06/12/12	00:00 MP	06/14/12	so	Soil	B-1-15 ', "", ", ", ", ", ", ", ", ", ", ", ", "
C22290-4	06/12/12	00:00 MP	06/14/12	so	Soil	B-1-20' (1987) (
C22290-5	06/12/12	00:00 MP	06/14/12	AQ	Ground Water	B-1 in the second of the secon
C22290-6	06/12/12	12:30 MP	06/14/12	so	Soil	B-2-5 ***********************************
C22290-7	06/12/12	12:35 MP	06/14/12	so	Soil	B-2-10'
C22290-8	06/12/12	12:45 MP	06/14/12	so	Soil	B-2-15'
C22290-9	06/12/12	12:50 MP	06/14/12	so	Soil	B-2-20'
C22290-10	06/12/12	13:00 MP	06/14/12	so	Soil	B-2-24", and all the second and a second and a second as
C22290-11	06/12/12	13:10 MP	06/14/12	AQ	Ground Water	[B-2 14-16] 1 1 1 1 1 1 1 1 1
C22290-12	06/12/12	10:20 MP	06/14/12	so	Soil	B-3-10' [10, 27] (10, 27) [10, 27]
C22290-13	06/12/12	10:25 MP	06/14/12	so	Soil	B-3-15'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

EquoLogic

Job No:

C22290

San Lorenzo High - San Lorenzo, CA Project No: 409.01.01

Sample Number	Collected Date		Received	Matr Code		Client Sample ID
C22290-14	06/12/12	10:26 MP	06/14/12	so	Soil	B-3-20'
C22290-15	06/12/12	10:40 MP	06/14/12	SO	Soil	B-3-24'
C22290-16	06/12/12	11:20 MP	06/14/12	AQ	Ground Water	B-3 in which they have been until the
C22290-17	06/12/12	11:35 MP	06/14/12	SO	Soil	B-4-5 *
C22290-18	06/12/12	11:40 MP	06/14/12	SO	Soil	[B-4-10]
C22290-19	06/12/12	11:50 MP	06/14/12	SO	Soil	B-4-15'
C22290-20	06/12/12	11:55 MP	06/14/12	SO	Soil	B-4-20'
C22290-21	06/12/12	12:15 MP	06/14/12	AQ	Ground Water	B-4





Report of Analysis	Sample Results	
Report of Analysis		
	Report of Analysis	



Ву

XB

Page 1 of 1

Client Sample ID: B-1-5' Lab Sample ID: C22290-1

Matrix:

SO - Soil

SW846 8260B

Date Sampled: Date Received: 06/14/12

06/12/12

Method:

DF

1

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Analyzed

06/15/12

Analytical Batch Prep Batch Prep Date VM1063 n/a n/a

Run #1 b Run #2

Initial Weight

M33988.D

Run #1

1.06 g

File ID

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	24	2.4	ug/kg	
108-88-3	Toluene	ND	24	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	24	2.4	ug/kg	
1330-20-7	Xylene (total)	17.2	47	4.7	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	24	4.7	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	109%		60-130%		
2037-26-5	Toluene-D8	104%		60-1	30%	
460-00-4	4-Bromofluorobenzene	109%		60-1	30%	

(a) All results reported on a wet weight basis.

(b) Dilution required due to high concentration of non-target hydrocarbons.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

I = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1-5' C22290-1 Lab Sample ID:

File ID

HH023318.D

Matrix:

SO - Soil

Date Sampled: Date Received:

06/12/12 06/14/12

Method:

SW846 8015B M SW846 3545A

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Analyzed

06/18/12

Prep Date **Analytical Batch** Prep Batch By 06/14/12 OP6109 **GHH749** JH

Run #1 b Run #2

Final Volume

DF

40

Run #1

Initial Weight 1.0 ml 10.1 g

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	1760 1610 ND ND	400 800 400 400	200 400 200 200	mg/kg mg/kg mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	104%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) Pattern is consistent with heating oil.

ND = Not detected RL = Reporting Limit

MDL - Method Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1-10' Lab Sample ID:

Matrix:

C22290-2 SO - Soil

SW846 8260B

1

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Method: Project:

San Lorenzo High - San Lorenzo, CA

Prep Batch

Run #1

File ID M33994.D DF Analyzed 06/15/12

By XB Prep Date n/a

n/a

Analytical Batch VM1063

Run #2

Initial Weight

Run #1

5.05 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	5.0 5.0 5.0 9.9	0.50 0.50 0.50 0.99	ug/kg ug/kg ug/kg ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	105% 107% 100%		60-130% 60-130% 60-130%		

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = **Reporting Limit**

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1-10' Lab Sample ID: C22290-2

Matrix: Method:

Project:

SO - Soil

SW846 8015B M SW846 3545A San Lorenzo High - San Lorenzo, CA Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a a

Run #1 b	File ID GG34600.D	DF 1	Analyzed 06/15/12	By JH	Prep Date 06/15/12	Prep Batch OP6115	Analytical Batch GGG927
Run #2	GG54000.D	-	00/10/10	JII	00/10/12	010110	00002.

Final Volume Initial Weight Run #1 10.1 g 1.0 ml Run #2

TPH Extractable

CAS No.	Compound	Result RL		MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	10 20 10 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	54%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



XB

n/a

Page 1 of 1

Client Sample ID: B-1-15' Lab Sample ID: C22290-

Matrix:

C22290-3 SO - Soil

SW846 8260B

1

Date Sampled: Date Received:

06/12/12 06/14/12

Percent Solids: n/a a

n/2 a

Method: Project:

San Lorenzo High - San Lorenzo, CA

06/15/12

File ID DF Analyzed By Prep Date

Prep Batch n/a Analytical Batch VM1063

Run #1 Run #2

Initial Weight

M33997.D

Run #1 5.03 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether	ND ND ND ND ND	5.0 5.0 5.0 9.9 5.0	0.50 0.50 0.50 0.99 0.99	ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	107% 104% 98%		60-1 60-1 60-1		

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range



By

JH

Page 1 of 1

Client Sample ID: B-1-15' Lab Sample ID:

Matrix: Method: C22290-3 SO - Soil

SW846 8015B M SW846 3545A

Date Sampled:

06/12/12 06/14/12

Percent Solids: n/a a

Date Received:

San Lorenzo High - San Lorenzo, CA Project:

File ID Run #1 b HH023357.D DF 1

Analyzed 06/19/12

Prep Date 06/18/12

45-140%

Prep Batch OP6125

Analytical Batch

GHH750

Run #2

Initial Weight

Final Volume 1.0 ml 10.1 g

Run #1 Run #2

630-01-3

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	20 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	0 0	

82%

(a) All results reported on a wet weight basis.

Hexacosane

(b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1-20' C22290-4 Lab Sample ID:

Matrix:

SO - Soil

Date Sampled: 06/12/12 Date Received: 06/14/12

Method:

SW846 8260B San Lorenzo High - San Lorenzo, CA Percent Solids: n/a a

Project:

Analytical Batch File ID DF Analyzed Prep Date Prep Batch By VL553 n/a 06/15/12 XBRun #1 L17656.D 1 n/a Run #2

Initial Weight

Run #1

Run #2

Purgeable Aromatics, MTBE

5.03 g

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	101%		60-1	30 %	
460-00-4	4-Bromofluorobenzene	99%		60-1	30 %	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1-20' Lab Sample ID: C22290-4

Matrix: Method: SQ - Soil

SW846 8015B M SW846 3545A San Lorenzo High - San Lorenzo, CA **Date Sampled:** 06/12/12

Date Received: 06/14/12

Percent Solids: n/a a

Prep Date Prep Batch **Analytical Batch** File ID DF Analyzed By Run #1 b OP6115 **GGG927** GG34602.D 06/15/12 06/15/12 1 JH

Run #2

Project:

Initial Weight

Final Volume

Run #1 10.1 g 1.0 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	5.0	mg/kg	
	TPH (Kerosene)	ND	9.9	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	64%	64%			

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-1

Lab Sample ID: C22290-5

Matrix:

AQ - Ground Water

Method: Project:

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

Analytical Batch Prep Batch File ID By Prep Date DF Analyzed n/a VV333 Run #1 a BD V07358.D 1 06/26/12 n/a

Run #2

Purge Volume

Run #1

10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	107%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30 %	
460-00-4	4-Bromofluorobenzene	101%		60-1	30 %	

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JΗ

Page 1 of 1

Client Sample ID: B-1

Lab Sample ID: C22290-5

Matrix:

AQ - Ground Water

DF

1

Date Sampled: 06/12/12 Date Received: 06/14/12

Method:

SW846 8015B M SW846 3510C

Percent Solids: n/a

Project:

San Lorenzo High - San Lorenzo, CA

Prep Batch

Run #1 a

File ID HH023367.D Analyzed 06/19/12

Prep Date 06/19/12

OP6124

Analytical Batch GHH750

Run #2

Initial Volume 1000 ml

Final Volume

Run #1 Run #2 1.0 ml

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	0.157 ND ND ND	0.10	0.050 0.10 0.050 0.050	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	78%		45-1	40%	

(a) Atypical heating oil pattern; possibly weathered.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

XB

Page 1 of 1

Client Sample ID: B-2-5' Lab Sample ID:

Matrix:

C22290-6

SO - Soil

Date Sampled: Date Received:

06/12/12 06/14/12

Method: Project:

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Percent Solids: n/a a

Run #1

File ID L17657.D DF Analyzed 06/15/12 1

Prep Date n/a

Prep Batch n/a

Analytical Batch **VL553**

Run #2

Initial Weight

Run #1 Run #2

Purgeable Aromatics, MTBE

5.09 g

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	102%		60-130%		
2037-26-5	Toluene-D8	99%		60-130%		
460-00-4	4-Bromofluorobenzene	99%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



JH

Page 1 of 1

Client Sample ID: B-2-5' C22290-6 Lab Sample ID:

Matrix:

SO - Soil

HH023343.D

Date Sampled:

06/12/12 Date Received: 06/14/12

Method:

SW846 8015B M SW846 3545A

Percent Solids: n/a a

Prep Date

06/15/12

Project:

San Lorenzo High - San Lorenzo, CA

06/19/12

Analyzed File ID DF By

1

Prep Batch OP6115 **GHH749**

Analytical Batch

Run #1 b Run #2

> **Initial Weight** Final Volume 10.1 g

Run #1 Run #2 1.0 ml

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND 39.7 ND ND	9.9 20 9.9 9.9	5.0 9.9 5.0 5.0	mg/kg mg/kg mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 I		Limits	
630-01-3	Hexacosane	81%	-	45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: B-2-10' Lab Sample ID: C22290-7

Matrix: Method: SO - Soil

SW846 8260B

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project: San Lorenzo High - San Lorenzo, CA

Analytical Batch File ID DF Analyzed Ву Prep Date Prep Batch VL553 06/15/12 XB n/a Run #1 L17658.D 1 n/a Run #2

Initial Weight

Run #1 5.07 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	98%		60-1	30%	
2037-26-5	Toluene-D8	102%		60-1	30%	
460-00-4	4-Bromofluorobenzene	99%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-2-10' C22290-7 Lab Sample ID:

Matrix: Method:

SO - Soil

SW846 8015B M SW846 3545A

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Analytical Batch Prep Batch File ID DF Analyzed Prep Date By **GGG927** Run #1 b 06/15/12 OP6115 GG34603.D 06/15/12 JH 1

Run #2

Initial Weight Final Volume 1.0 ml Run #1 10.1 g

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	4.9	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	4.9	mg/kg	
	TPH (Kerosene)	ND	9.9	4.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Нехасозапе	57%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = Indicates \ analyte \ found \ in \ associated \ method \ blank$



Page 1 of 1

Client Sample ID: B-2-15' Lab Sample ID: C22290-8

Matrix: Method: SO - Soil

SW846 8260B San Lorenzo High - San Lorenzo, CA Date Sampled:

06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project:

Analytical Batch Prep Batch File ID Analyzed Prep Date DF By **VL553** XB n/a 06/15/12 n/a L17659.D 1 Run #1 Run #2

Initial Weight 5.12 g

Run #1

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	99%		60-1	30%	
460-00-4	4-Bromofluorobenzene	98%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JΗ

Client Sample ID: B-2-15' Lab Sample ID: C22290-8 Matrix:

SO - Soil

Date Sampled: 06/12/12 Date Received: 06/14/12

Method:

SW846 8015B M SW846 3545A

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Prep Batch

Analytical Batch

Run #1 b Run #2

1 06/15/12

Analyzed

Prep Date 06/15/12

OP6115 **GGG927**

Initial Weight 10.0 g

File ID

GG34604.D

Final Volume

Run #1 Run #2

1.0 ml

DF

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	10 20 10 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Limits		
630-01-3	Hexacosane	56%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-2-20'

Lab Sample ID:

C22290-9 SO - Soil

SW846 8260B

1

Date Sampled:

06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Method: Project:

Matrix:

San Lorenzo High - San Lorenzo, CA

Analytical Batch Prep Batch

Run #1

File ID L17660.D

Analyzed DF 06/15/12

By XB Prep Date n/a

n/a

VL553

Run #2

Initial Weight

Run #1 5.02 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
1868-53-7	Dibromofluoromethane	100%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30 %	
460-00-4	4-Bromofluorobenzene	100%		60-1	30%	

⁽a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

06/15/12

Page 1 of 1

Client Sample ID: B-2-20'

Lab Sample ID: Matrix:

C22290-9

Date Sampled: 06/12/12 Date Received:

06/14/12

GHH749

Method:

SO - Soil SW846 8015B M SW846 3545A

Percent Solids: n/a a

OP6115

Project:

San Lorenzo High - San Lorenzo, CA

Analyzed

06/19/12

Prep Date **Analytical Batch** Prep Batch

Run #1 b Run #2

Initial Weight

File ID

10.0 g

HH023344.D

Final Volume

Run #1 Run #2 1.0 ml

DF

1

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	41.0	20	10	mg/kg	
	TPH (Mineral Spirits)	ND	10	5.0	mg/kg	
	TPH (Kerosene)	ND	10	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	82%		45-1	40%	

(a) All results reported on a wet weight basis.

(b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-2-24' Lab Sample ID:

C22290-10

Matrix: Method: SO - Soil

SW846 8260B

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Prep Batch

Run #1

File ID L17661.D DF 1

Ву Analyzed 06/15/12 XB Prep Date n/a

n/a

Analytical Batch VL553

Run #2

Initial Weight

Run #1 Run #2

5.03 g

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	101%		60-1	30 %	
460-00-4	4-Bromofluorobenzene	99%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-2-24'

Lab Sample ID:

C22290-10

Matrix:

SO - Soil SW846 8015B M SW846 3545A

Method: Project:

San Lorenzo High - San Lorenzo, CA

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 b	GG34605.D	1	06/15/12	JН	06/15/12	OP6115	GGG927

Run #2

Initial Weight Final Volume 1.0 ml Run #1 10.0 g

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	. 10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	
	TPH (Mineral Spirits)	ND	10	5.0	mg/kg	
	TPH (Kerosene)	ND	10	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
630-01-3	Hexacosane	70%		45 -1	140%	

(a) All results reported on a wet weight basis.

(b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-2

Lab Sample ID:

C22290-11

AQ - Ground Water

Matrix: Method: Project:

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

Run #1 a

File ID V07359.D DF 1

Analyzed 06/26/12

By BD Prep Date n/a

Prep Batch

Analytical Batch

VV333 n/a

Run #2

Purge Volume

Run #1

10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	107%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30%	
460-00-4	4-Bromofluorobenzene	102%		60-1	30%	

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: B-2

Lab Sample ID: C22290-11

Matrix:

AO - Ground Water

Method: Project:

SW846 8015B M SW846 3510C San Lorenzo High - San Lorenzo, CA Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

Prep Date **Analytical Batch** Prep Batch File ID DF Analyzed By **GGG928** 06/15/12 **OP6120** 06/16/12 JH Run #1 a GG34673.D 1

Run #2

Final Volume Initial Volume 940 ml 1.0 ml Run #1

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.11	0.053	mg/l	
	TPH (Motor Oil)	ND	0.21	0.11	mg/l	
	TPH (Mineral Spirits)	ND	0.11	0.053	mg/l	
	TPH (Kerosene)	ND	0.11	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	80%		45-1	40%	

MDL - Method Detection Limit

(a) No heating oil pattern present.

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-3-10'

Lab Sample ID:

C22290-12 SO - Soil

Matrix: Method:

Project:

L17662.D

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Date Sampled:

06/12/12

Date Received:

06/14/12

Percent Solids: n/a a

File ID	DF	Analyzed	By	Pre

1

Run #1 Run #2 06/15/12

XB

Prep Date n/a

Prep Batch n/a

Analytical Batch

VL553

Initial Weight 5.03 g

Run #1

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	98%		60-1	30%	
460-00-4	4-Bromofluorobenzene	99%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

I = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



MDL - Method Detection Limit

Page 1 of 1

Client Sample ID: B-3-10'

Lab Sample ID:

Matrix: Method: C22290-12 SO - Soil

SW846 8015B M SW846 3545A

Date Sampled: Date Received: 06/14/12

06/12/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Prep Batch

Run #1 b

File ID GG34606.D DF 1

Analyzed 06/15/12

By JH

Prep Date 06/15/12

45-140%

OP6115

Analytical Batch GGG927

Run #2

Initial Weight 10.0 g

Final Volume

Run #1

1.0 ml

Run #2

630-01-3

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	
	TPH (Mineral Spirits)	ND	10	5.0	mg/kg	
	TPH (Kerosene)	ND	10	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	. Lim	its	

65%

(a) All results reported on a wet weight basis.

Hexacosane

(b) No heating oil pattern present.

ND = Not detectedRL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: B-3-15'

C22290-13

Lab Sample ID: Matrix:

SO - Soil

Date Sampled: Date Received:

06/12/12 06/14/12

Method:

SW846 8260B

DF

1

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Run #1

File ID L17663.D Analyzed 06/15/12

By XB Prep Date n/a

Prep Batch n/a

Analytical Batch VL553

Run #2

Initial Weight

Run #1 5.10 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30%	
460-00-4	4-Bromofluorobenzene	98%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JΗ

06/15/12

Page 1 of 1

Client Sample ID: B-3-15'

Lab Sample ID: C22290-13

File ID

GG34613.D

Matrix: Method: Project:

SO - Soil

SW846 8015B M SW846 3545A San Lorenzo High - San Lorenzo, CA

Analyzed

06/15/12

Date Sampled: Date Received:

06/12/12 06/14/12

GGG927

OP6115

Percent Solids: n/a a

Prep Batch Analytical Batch Prep Date

Run #1 b Run #2

> Final Volume Initial Weight

Run #1 10.1 g 1.0 ml

DF

1

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	5.00 ND ND ND	9.9 20 9.9 9.9	5.0 9.9 5.0 5.0	mg/kg mg/kg mg/kg mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	62%		45-1	140%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: B-3-20'

Lab Sample ID:

C22290-14

Matrix:

SO - Soil

Method: Project:

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Date Sampled:

06/12/12 06/14/12

Date Received: Percent Solids:

n/a a

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run	#1 L17664.D	1	06/15/12	XB	n/a	n/a	VL553

Run #2

Initial Weight

Run #1 5.02 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	101%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30%	
460-00-4	4-Bromofluorobenzene	99%	60-130%			

(a) All results reported on a wet weight basis.

ND = Not detected **RL** = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-3-20'

Lab Sample ID: Matrix:

C22290-14 SO - Soil

Method:

SW846 8015B M SW846 3545A

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Analyzed

06/15/12

Analytical Batch

Run #1 b

File ID GG34608.D DF 1

By JH Prep Date 06/15/12

Prep Batch **OP6115**

GGG927

Run #2

Initial Weight 10.2 g

Final Volume

Run #1

1.0 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	Result RL		MDL Units	
	TPH (Diesel)	ND	9.8	4.9	mg/kg	
	TPH (Motor Oil)	ND	20	9.8	mg/kg	
	TPH (Mineral Spirits)	ND	9.8	4.9	mg/kg	
	TPH (Kerosene)	ND	9.8	4.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	62%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method blank



XB

Page 1 of 1

Client Sample ID: B-3-24'

Lab Sample ID:

Matrix:

C22290-15 SO - Soil

SW846 8260B

Date Sampled: Date Received:

06/12/12 06/14/12

Percent Solids: n/a a

Method: Project:

San Lorenzo High - San Lorenzo, CA

06/15/12

File ID DF Analyzed By

1

Prep Date

n/a

Analytical Batch Prep Batch **VL553** n/a

Run #1 Run #2

Initial Weight

L17665.D

Run #1

Run #2

Purgeable Aromatics, MTBE

5.10 g

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	99%		60-1	30%	
460-00-4	4-Bromofluorobenzene	98%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-3-24'
Lab Sample ID: C22290-15

Matrix:

SO - Soil

Date Sampled: 06/12/12 Date Received: 06/14/12

Method:

SW846 8015B M SW846 3545A

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Run #1 b

File ID GG34609.D Analyzed By 06/15/12 JH

Prep Date 06/15/12

Prep Batch OP6115

Analytical Batch GGG927

Run #2

Initial Weight Final Volume

Run #1 10.1 g

1.0 ml

DF

1

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	5.80	9.9	5.0	mg/kg	J
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	5.0	mg/kg	
	TPH (Kerosene)	ND	9.9	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	58%		45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

ng Limit

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: B-3

Lab Sample ID: C22290-16

Matrix:

AQ - Ground Water

Method: Project:

SW846 8260B

San Lorenzo High - San Lorenzo, CA

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

Analytical Batch Prep Date Prep Batch DF Analyzed By File ID VV333 06/26/12 BD n/a Run #1 a V07360.D 1 n/a

Run #2

Purge Volume

Run #1

10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.25	1.0	0.20	ug/l	J
1330-20-7	Xylene (total)	0.78	2.0	0.46	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	107%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-1	30%	
460-00-4	4-Bromofluorobenzene	102%		60-1	130%	

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: B-3

C22290-16 Lab Sample ID:

Matrix:

AQ - Ground Water

Method: Project:

SW846 8015B M SW846 3510C

San Lorenzo High - San Lorenzo, CA

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

					D D	D D-4-5	Analytical Datch
	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1 a	GG34674.D	1	06/16/12	JH	06/15/12	OP6120	GGG928
Dun #2							

Run #2

Initial Volume Final Volume Run #1 1.0 ml 890 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.0588	0.11	0.056	mg/l	J
	TPH (Motor Oil)	ND	0.22	0.11	mg/l	
	TPH (Mineral Spirits)	ND	0.11	0.056	mg/l	
	TPH (Kerosene)	ND	0.11	0.056	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	78%		45-1	40%	

(a) No heating oil pattern present.

ND = Not detected

RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: B-4-5'

Lab Sample ID:

C22290-17

Matrix: Method: SO - Soil

SW846 8260B

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Run #1

File ID L17666.D DF 1

Analyzed 06/15/12

By XB Prep Date n/a

Prep Batch n/a

Q

Analytical Batch VL553

Run #2

Initial Weight

Run #1 5.13 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units
71-43-2	Benzene	ND	4.9	0.49	ug/kg
108-88-3	Toluene	ND	4.9	0.49	ug/kg
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg
1330-20-7	Xylene (total)	ND	9.7	0.97	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.97	ug/kg

	J			
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	100%		60-130%
460-00-4	4-Bromofluorobenzene	99%		60-130%

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = Indicates \ analyte \ found \ in \ associated \ method \ blank$

Page 1 of 1

Client Sample ID: B-4-5'

Lab Sample ID:

Matrix:

C22290-17 SO - Soil

Method: Project:

SW846 8015B M SW846 3545A

San Lorenzo High - San Lorenzo, CA

06/12/12 Date Sampled: Date Received: 06/14/12

Percent Solids: n/a a

File ID GG34610.D DF 1

Analyzed 06/15/12

Prep Date By 06/15/12 JH

Prep Batch OP6115

Analytical Batch GGG927

Run #1 b Run #2

Final Volume

Initial Weight Run #1 10.1 g

1.0 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	5.0	mg/kg	
	TPH (Kerosene)	ND	9.9	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	57%	-	45-1	40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: B-4-10'

Lab Sample ID: Matrix:

C22290-18

Method:

SO - Soil

SW846 8260B

Date Sampled: 06/12/12 Date Received: 06/14/12

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Analyzed

06/15/12

Prep Batch

Analytical Batch

Run #1

File ID L17667.D DF 1

XB

Prep Date n/a

n/a

VL553

Run #2

Initial Weight

Run #1

5.18 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.8	0.48	ug/kg	
108-88-3	Toluene	ND	4.8	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	4.8	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	9.7	0.97	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	0.97	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	100%		60-1	.30%	
2037-26-5	Toluene-D8	100%		60-1	30%	
460-00-4	4-Bromofluorobenzene	96%		60-1	.30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-4-10'

Lab Sample ID:

C22290-18

Matrix:

SO - Soil

Method: Project:

SW846 8015B M SW846 3545A

Date Received: 06/14/12

Date Sampled: 06/12/12

San Lorenzo High - San Lorenzo, CA

Percent Solids: n/a a

Run #1 b

File ID GG34614.D DF 1

Analyzed By 06/15/12 JH Prep Date 06/15/12

Prep Batch OP6115

Analytical Batch GGG927

Run #2

Initial Weight 10.1 g

Final Volume

Run #1 Run #2 1.0 ml

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	
	TPH (Mineral Spirits)	ND	10	5.0	mg/kg	
	TPH (Kerosene)	ND	10	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	60%		45-1	40%	

⁽a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

⁽b) No heating oil pattern present.

Page 1 of 1

Client Sample ID: B-4-15'

Lab Sample ID:

C22290-19

SO - Soil

SW846 8260B

Date Sampled: 06/12/12

Percent Solids: n/a a

Date Received: 06/14/12

Method: Project:

Matrix:

San Lorenzo High - San Lorenzo, CA

Run #1

File ID L17668.D

Analyzed DF 1 06/15/12

By XB Prep Date n/a

Prep Batch n/a

Analytical Batch VL553

Run #2

Initial Weight

Run #1

Run #2

Purgeable Aromatics, MTBE

5.00 g

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg	
108-88-3	Toluene	ND	5.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg	
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	100%		60-1	30%	
2037-26-5	Toluene-D8	99%		60-1	30%	
460-00-4	4-Bromofluorobenzene	98%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

Page 1 of 1

Client Sample ID: B-4-15'

Date Sampled: 06/12/12

Lab Sample ID: Matrix:

C22290-19 SO - Soil

Date Received: 06/14/12

Method:

SW846 8015B M SW846 3545A

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Run #1 b

File ID GG34611.D Analyzed 06/15/12

Prep Date 06/15/12

Prep Batch OP6115

Analytical Batch GGG927

Run #2

Initial Weight

Final Volume

Run #1 10.1 g 1.0 ml

DF

1

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	4.9	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	4.9	mg/kg	
	TPH (Kerosene)	ND	9.9	4.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	55%		45-1	.40%	

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-4-20'

Lab Sample ID:

C22290-20 SO - Soil

Date Sampled: 06/12/12 Date Received: 06/14/12

Matrix: Method:

SW846 8260B

Percent Solids: n/a a

Project:

San Lorenzo High - San Lorenzo, CA

Run #1

File ID M33998.D DF Analyzed 06/15/12 1

By XB Prep Date n/a

Prep Batch n/a

Analytical Batch VM1063

Run #2

Initial Weight

Run #1 5.10 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.9	0.49	ug/kg	
108-88-3	Toluene	ND	4.9	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	111%		60-1	30%	
2037-26-5	Toluene-D8	108%		60-1	30%	
460-00-4	4-Bromofluorobenzene	101%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



JH

Prep Date

06/15/12

Page 1 of 1

Client Sample ID: B-4-20' Lab Sample ID:

Matrix: Method: C22290-20

SO - Soil

SW846 8015B M SW846 3545A

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a a

Project: San Lorenzo High - San Lorenzo, CA File ID DF Analyzed By

1

Analytical Batch Prep Batch **GGG927** OP6115

Run #1 b Run #2

Initial Weight Run #1 10.1 g

GG34612.D

Final Volume

Run #2

1.0 ml

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	9.9	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	9.9	mg/kg	
	TPH (Mineral Spirits)	ND	9.9	5.0	mg/kg	
	TPH (Kerosene)	ND	9.9	5.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	59%		45-1	40%	

06/15/12

- (a) All results reported on a wet weight basis.
- (b) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

I = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: B-4

Lab Sample ID:

C22290-21

AO - Ground Water

Date Sampled:

06/12/12 Date Received: 06/14/12

Method:

SW846 8260B

DF

1

Percent Solids: n/a

Project: San Lorenzo High - San Lorenzo, CA

Analytical Batch

Run #1 a

Matrix:

File ID V07361.D Analyzed 06/26/12

By BD Prep Date n/a

Prep Batch n/a

VV333

Run #2

Purge Volume

Run #1

10.0 ml

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	114%		60-1	30%	
2037-26-5	Toluene-D8	99%		60-1	30%	
460-00-4	4-Bromofluorobenzene	103%		60-1	30%	

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



JH

06/15/12

Page 1 of 1

Client Sample ID: B-4

Lab Sample ID:

C22290-21

Matrix:

AQ - Ground Water

1

Method:

SW846 8015B M SW846 3510C

San Lorenzo High - San Lorenzo, CA

06/16/12

Date Sampled: 06/12/12

Date Received: 06/14/12

Percent Solids: n/a

Project: Prep Date File ID DF Analyzed By

Analytical Batch Prep Batch OP6120 **GGG928**

Run #1 a Run #2

> Initial Volume Final Volume

> > 800 ml

GG34675.D

Run #1

1.0 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	0.13 0.25 0.13 0.13	0.063 0.13 0.063 0.063	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	79%		45-1	40%	

(a) No heating oil pattern present.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Misc. Forms	
Custody Documents and Other Forms	
Includes the following where applicable: • Chain of Custody	

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C22290: Chain of Custody Page 1 of 4

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C22290: Chain of Custody Page 2 of 4

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Emer	Emergency T/A data available VIA Lablink Sample Custody must be documented below each time samples change possession, including c											ourier	deliven	<i>'</i> .				(4)48		W.W.	Garana	SOK		
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On Ice Y / N

Number of coolers

C22290: Chain of Custody Page 3 of 4

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Accutest Laboratories Northern California Sa	lample Receiving Check List
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Accutest Laboratories Northern California Sample Recei	iving Check L	.ist Job# : C2	22290	Initial: LS
Review Chain of Custody Chain of Custody is to be comp	lete and logible.			
g'Are these regulatory (NPDES) samples? CWA	(Yes) No	Client Sample ID	pH Check	Other Comments/issues
r/ls pH requested?	Yes /(No)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1x Acetate Sleeve.
	Yes / No	1-9,6-10		TX MEET WIR. SHEETE.
	Yes / No	12-15, 17-20		
pare sample within hold time?	(Yes) No			7 7401
Are sample in danger of exceeding hold-time	Yes /(No	5,11,16,21		3× 40ml vial w/HCL
Existing Client? (98) No Existing Project?	Yes (NO)			2× 1000ml ag w/ up.
If No: Is Report to info complete and legible, including;				
sideliverable si Name si Address si phone si e-mail on fi le	-			
Is Bill to info complete and legible, including;				
n PO# o Credit card o Contact paddress o phone o e-mail				
Is Contact and/or Project Manager Identified, Including;				
· · · · · · · · · · · · · · · · · · ·				
er Project name / number	Yes /(Ño)			
√Special requirements?	(GS) No			
a Sample IDs / date & time of collection provided?	(Yes) No			
as Matrix listed and correct?	~			
ø'Analyses listed, we do, or client has authorized a subcontract?	(es) No			
d'Chain is signed and dated by both client and sample custodian?	(Yes) No			
c/TAT requested available? (Yes)/ No Approved by YYY)				ļ
Review Coolers:	_			
ration of the state of the sta	(es) No			
 If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left 	(es) No			
g/Are samples on ice?				
Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)				
at the co				
Shipment Received Method Walk in				
Custody Seals: Present: Yes / No If Yes; Unbroken:	Yes / No			
Review of Sample Bottles: If you answer no, explain to the side				
√Chain matches bottle labels? Yes No ✓Sample bottle intact?	(PBS/ No			
tals there enough sample volume in proper bottle for requested analyses?	Yos/ No	-		
u∕Proper Preservatives? (Yes) No				
Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.				
Headspace-VOAs? Greater than 6mm in diameter	Yes /(No			
List sample ID and affected container				

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

 $\verb|\Accunca.accutest.com| depts | qa| sops | sop_complete list_2010 | current_active_sop_cot_2010 | sc001f1_0_form1_sample control_sample receiving check list_2009-01-01. documents | depts | depts$

C22290: Chain of Custody

Page 4 of 4





GC/MS Volatiles		
QC Data Summaries		
	·	
		+11
Includes the following wher Method Blank Summaries	e applicable:	

• Blank Spike Summaries

• Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number:

C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed 06/15/12	By	Prep Date	Prep Batch	Analytical Batch
VL553-MB	L17652.D	1		XB	n/a	n/a	VL553

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-4, C22290-6, C22290-7, C22290-8, C22290-9, C22290-10, C22290-12, C22290-13, C22290-14, C22290-15, C22290-17, C22290-18, C22290-19

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	5.0 5.0 5.0 5.0 10	0.50 0.50 1.0 0.50 1.0	ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries		Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	93% 100% 96%	60-130 60-130 60-130	%	



Method Blank Summary

Job Number: C22290
Account: EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1063-MB	M33980.D	1	06/15/12	XB	n/a	n/a	VM1063

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-1, C22290-2, C22290-3, C22290-20

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	5.0 5.0 5.0 5.0 10	0.50 0.50 1.0 0.50 1.0	ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries		Limit	ts	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	104% 106% 101%	60-13 60-13 60-13	0%	



Method Blank Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample VV333-MB	File ID V07357.D	DF 1	Analyzed 06/26/12	By BD	Prep Date n/a	Prep Batch n/a	Analytical Batch VV333
							•

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-5, C22290-11, C22290-16, C22290-21

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	1.0 1.0 1.0 1.0 2.0	0.20 0.20 0.20 0.20 0.46	ug/l ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	103% 101% 99%	60-130 60-130 60-130	%	



Blank Spike/Blank Spike Duplicate Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File I D	DF	Analyzed 06/15/12	By	Prep Date	Prep Batch	Analytical Batch
VL553-BS	L17649.D	1		XB	n/a	n/a	VL553
VL553-BSD	L17650.D	1	06/15/12	XB	n/a	n/a	VL553

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-4, C22290-6, C22290-7, C22290-8, C22290-9, C22290-10, C22290-12, C22290-13, C22290-14, C22290-15, C22290-17, C22290-18, C22290-19

CAS No.	Compound	1	BSP ug/k	BS g %	P	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	40 40 40 40 120	41.2 43.1 39.1 42.8 129	10: 10: 98 10: 10:	8 7	41.7 43.7 38.8 43.3 132	104 109 97 108 110	1 1 1 1 2	60-130/30 60-130/30 60-130/30 60-130/30 60-130/30
CAS No.	Surrogate Recoveries	BSP]	BSD		Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	100% 101% 98%	1	98% 101% 99%		60-130% 60-130% 60-130%	,)		



^{* =} Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM1063-BS	M33977.D	1	06/15/12	XB	n/a	n/a	VM1063
VM1063-BSD	M33978.D	1	06/15/12	XB	n/a	n/a	VM1063

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-1, C22290-2, C22290-3, C22290-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	40 40 40 40 120	38.3 41.4 40.1 40.1 125	96 104 100 100 104	39.2 42.0 39.5 40.7 126	98 105 99 102 105	2 1 2 1	60-130/30 60-130/30 60-130/30 60-130/30
CAS No.	Surrogate Recoveries	BSP	BSI	D	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	105% 102% 101%	105 103 99%	%	60-1309 60-1309 60-1309	6		



^{* =} Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF 1 1	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV333-BS	V07353.D		06/26/12	BD	n/a	n/a	VV333
VV333-BSD	V07355.D		06/26/12	BD	n/a	n/a	VV333

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-5, C22290-11, C22290-16, C22290-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/1	BSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4	Benzene Ethylbenzene Methyl Tert Butyl Ether	20 20 20	17.1 16.9 18.6	86 85 93	18.7 18.7 18.7	94 94 94	9 10 1	60-130/30 60-130/30 60-130/30
108-88-3 1330-20-7	Toluene Xylene (total)	20 60	16.5 50.9	83 85	18.7 56.9	94 95	13 11	60-130/30 60-130/30
CAS No.	Surrogate Recoveries	BSP	В	SD	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	110% 97% 104%	10)6%)0%)4%	60-130° 60-130° 60-130°	%		

^{* =} Outside of Control Limits.

Laboratory Control Sample Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1063-LCS	M33979.D	1	06/15/12	XB	n/a	n/a	VM1063
						,	

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-1, C22290-2, C22290-3, C22290-20

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
CAS No.	Surrogate Recoveries	BSP	Lin	nits	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	103% 104% 98%	60-	130% 130% 130%	



^{* =} Outside of Control Limits.

Laboratory Control Sample Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV333-LCS	V07356.D	1	06/26/12	BD	n/a	n/a	VV333

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-5, C22290-11, C22290-16, C22290-21

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
CAS No.	Surrogate Recoveries	BSP	Liı	nits	
1868-53-7	Dibromofluoromethane	105%	60	130%	
2037-26-5	Toluene-D8	100%	60	-130%	
460-00-4	4-Bromofluorobenzene	100%	60	-130%	



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
C22299-6MS	M33995.D	1	06/15/12	XB	n/a	n/a	VM1063
C22299-6MSD	M33996.D	1	06/15/12	XB	n/a	n/a	VM1063
C22299-6	M33991.D	1	06/15/12	XB	n/a	n/a	VM1063

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-1, C22290-2, C22290-3, C22290-20

CAS No.	Compound	C22299-6 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	38.9 38.9 38.9 38.9 117	35.4 37.4 43.7 36.6 101	91 96 112 94 87	34.1 35.3 42.3 34.4 95.5	88 91 109 89 82	4 6 3 6 6	60-130/30 60-130/30 60-130/30 60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C2	2299-6	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	104% 103% 103%	107% 102% 101%	99 10 98	4%	60-130% 60-130% 60-130%	ó		



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
C22290-10MS	L17670.D	1	06/15/12	ХB	n/a	n/a	VL553
C22290-10MSD	L17671.D	1	06/15/12	XB	n/a	n/a	VL553
C22290-10	L17661.D	1	06/15/12	XB	n/a	n/a	VL553

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-4, C22290-6, C22290-7, C22290-8, C22290-9, C22290-10, C22290-12, C22290-13, C22290-14, C22290-15, C22290-17, C22290-18, C22290-19

CAS No.	Compound	C22290-10 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	39.1 39.1 39.1 39.1 117	33.0 33.9 37.0 33.9 102	84 87 95 87	32.3 33.0 36.3 33.0 99.0	83 85 93 85 85	2 3 2 3 3	60-130/30 60-130/30 60-130/30 60-130/30 60-130/30
CAS No. 1868-53-7 2037-26-5 460-00-4	Surrogate Recoveries Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	MS 101% 100% 101%	MSD 103% 100% 101%	C22 99% 101 99%	%	Limits 60-130% 60-130% 60-130%	,		



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C22290-21MS	V07371.D	1	06/26/12	BD	n/a	n/a	VV333
C22290-21MSD	V07372.D	1	06/26/12	BD	n/a	n/a	VV333
C22290-21 a	V07361.D	1	06/26/12	BD	n/a	n/a	VV333

The QC reported here applies to the following samples:

Method: SW846 8260B

C22290-5, C22290-11, C22290-16, C22290-21

CAS No.	Compound	C22290-21 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	21.1	106	22.2	111	5	60-130/25
100-41-4	Ethylbenzene	ND	20	20.2	101	21.2	106	5	60-130/25
1634-04-4	Methyl Tert Butyl Ether	ND	20	22.6	113	24.9	125	10	60-130/25
108-88-3	Toluene	ND	20	20.2	101	21.1	106	4	60-130/25
1330-20-7	Xylene (total)	ND	60	61.7	103	63.9	107	4, ,	60-130/25
CAS No.	Surrogate Recoveries	MS	MSD	C2	2290-21	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	106% 97% 102%	107% 97% 103%	99	4% % 3%	60-130° 60-130° 60-130°	%		

⁽a) Sample vial contained more than 0.5 cm of sediment.



^{* =} Outside of Control Limits.



GC Semi-volatiles		
QC Data Summaries		
Includes the following where	annlicable.	
Includes the following where • Method Blank Summaries	e applicable:	
 Method Blank Summaries Blank Spike Summaries 		

• Matrix Spike and Duplicate Summaries

Method Blank Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID DF	Analyzed	By	Prep Date 06/14/12	Prep Batch	Analytical Batch
OP6109-MB	HH023160.D1	06/14/12	JH		OP6109	GHH746
				·		

The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	10 20 10 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg
CAS No.	Surrogate Recoveries		Limi	ts	
630-01-3	Hexacosane	78%	45-14	10%	



Method Blank Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date 06/15/12	Prep Batch	Analytical Batch
OP6115-MB	GG34597.D	1	06/15/12	JH		OP6115	GGG927

The QC reported here applies to the following samples:

Method: SW846 8015B M

C22290-2, C22290-4, C22290-6, C22290-7, C22290-8, C22290-9, C22290-10, C22290-12, C22290-13, C22290-14, C22290-15, C22290-17, C22290-18, C22290-19, C22290-20

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	10 20 10 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg
CAS No.	Surrogate Recoveries		Limit	s	
630-01-3	Hexacosane	71%	45-14	0%	



Method Blank Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample OP6120-MB	File ID GG34669.D	DF 1	Analyzed 06/16/12	By JH	Prep Date 06/15/12	Prep Batch OP6120	Analytical Batch GGG928
				· · · · · · · · · · · · · · · · · · ·	****		

The QC reported here applies to the following samples:

Method: SW846 8015B M

C22290-11, C22290-16, C22290-21

CAS No.	Compound	Result	RL	MDL	Units Q)
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	0.10 0.20 0.10 0.10	0.050 0.10 0.050 0.050	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries		Limit	s		
630-01-3	Hexacosane	82%	45-14	0%		



Method Blank Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID DF	Analyzed	By	Prep Date 06/18/12	Prep Batch	Analytical Batch
OP6124-MB	HH023301.D1	06/18/12	JH		OP6124	GHH749

The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND	0.10 0.20 0.10 0.10	0.050 0.10 0.050 0.050	mg/l mg/l mg/l mg/l
CAS No.	Surrogate Recoveries		Limits		
630-01-3	Hexacosane	73%	45-140	%	



Method Blank Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID DF	Analyzed	By	Prep Date 06/18/12	Prep Batch	Analytical Batch
OP6125-MB	HH023353.D1	06/19/12	JH		OP6125	GHH750

The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH (Diesel) TPH (Motor Oil) TPH (Mineral Spirits) TPH (Kerosene)	ND ND ND ND	10 20 10 10	5.0 10 5.0 5.0	mg/kg mg/kg mg/kg mg/kg
CAS No.	Surrogate Recoveries		Limi	ts	
630-01-3	Hexacosane	104%	45-14	10%	



Blank Spike/Blank Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6115-BS	GG34598.D	1	06/15/12	JH	06/15/12	OP6115	GGG927
OP6115-BSD	GG34599.D	1	06/15/12	JH	06/15/12	OP6115	GGG927

The QC reported here applies to the following samples:

Method: SW846 8015B M

C22290-2, C22290-4, C22290-6, C22290-7, C22290-8, C22290-9, C22290-10, C22290-12, C22290-13, C22290-14, C22290-15, C22290-17, C22290-18, C22290-19, C22290-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	100 100	56.2 70.8	56 71	58.8 71.0	59 71	5 0	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
630-01-3	Hexacosane	71%	70%	6	45-140%	6		



^{* =} Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6120-BS	GG34670.D	1	06/16/12	JH	06/15/12	OP6120	GGG928
OP6120-BSD	GG34671.D	1	06/16/12	JH	06/15/12	OP6120	GGG928

The QC reported here applies to the following samples:

Method: SW846 8015B M

C22290-11, C22290-16, C22290-21

CAS No.	Compound	Spike mg/l	BSI mg/		BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	1 1	0.75 0.80		75 80	0.716 0.806	72 81	5 0	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	BSP		BSE	•	Limits			
630-01-3	Hexacosane	81%		80%		45-1409	6		



^{* =} Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample OP6124-BS OP6124-BSD	File ID DF HH023302.D1 HH023303.D1	Analyzed 06/18/12 06/18/12	By JH JH	Prep Date 06/18/12 06/18/12	Prep Batch OP6124 OP6124	Analytical Batch GHH749 GHH749

The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	1	0.713 0.754	71 75	0.635 0.680	64 68	12 10	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	BSP	BSI	D	Limits			
630-01-3	Hexacosane	92%	879	6	45-140%	6		

^{* =} Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6125-BS OP6125-BSD	HH023354.D1 HH023355.D1	06/19/12 06/19/12	JH JH	06/18/12 06/18/12	OP6125 OP6125	GHH750 GHH750
OP0123-BSD	T1T1025555.D1	00/19/12	JI	UO/18/12	OP0123	GПП/30

The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	100 100	73.4 92.5	73 93	70.3 89.6	70 90	4 3	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
630-01-3	Hexacosane	105%	105	%	45-140%	6		

^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample File ID DF Analyzed By Prep Date Prep Batch Analytical Batch OP6109-MS HH023377.D1 06/19/12 JH 06/14/12 OP6109 GHH750 OP6109-MSD HH023378.D1 06/19/12 JH 06/14/12 OP6109 GHH750 C22276-2 HH023165.D1 06/14/12 JH 06/14/12 OP6109 GHH746
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The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	C22276-2 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	ND ND	99.9 99.9	63.9 82.5	64 83	61.4 76.2	62 77	4 8	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	MS	MSD	C22	2276-2	Limits			
630-01-3	Hexacosane	98%	95%	849	6	45-1409	6		

^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C22290

Account:

EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

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The QC reported here applies to the following samples:

Method: SW846 8015B M

 $C22290-2,\ C22290-4,\ C22290-6,\ C22290-7,\ C22290-8,\ C22290-9,\ C22290-10,\ C22290-12,\ C22290-13,\ C22290-14,$ C22290-15, C22290-17, C22290-18, C22290-19, C22290-20

CAS No.	Compound	C22290-10 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	ND ND	99.9 99.9	54.2 60.2	54 60	51.4 56.3	52 56	5 7	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	MS	MSD	C22	2290-10	Limits			
630-01-3	Hexacosane	63%	58%	709	%	45-1409	6		

⁽a) No heating oil pattern present.



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary Job Number: C22290 Account: EQUOCAMS EquoLogic

Project:

San Lorenzo High - San Lorenzo, CA

Sample File ID DF Analyzed By OP6124-MS HH023379.D1 06/19/12 JH OP6124-MSD HH023380.D1 06/19/12 JH C22314-1 HH023368.D1 06/19/12 JH	06/18/12 OP6124 O 06/18/12 OP6124 O	Analytical Batch GHH750 GHH750 GHH750
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The QC reported here applies to the following samples:

Method: SW846 8015B M

CAS No.	Compound	C22314-1 mg/l Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel) TPH (Motor Oil)	ND ND	1.89 1.89	0.903 0.957	48 51	0.860 0.902	46 48	5 6	45-140/25 45-140/25
CAS No.	Surrogate Recoveries	MS	MSD	C22	2314-1	Limits			
630-01-3	Hexacosane	78%	76%	719	6	45-140%	6		

^{* =} Outside of Control Limits.