

Transportation Terminals Company

PO Box 882682

San Francisco, CA 94188-2682

Date: 8/15/2013
From: Bob Lawlor
To: Haz. Materials Specialist, Alameda Co. Environmental Health
Subject: 15651 Worthley Drive, San Lorenzo CA R02558

RECEIVED

By Alameda County Environmental Health at 4:31 pm, Aug 20, 2013

Perjury Statement

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

Bob Lawlor



General Partner

Environmental Restoration Services

Site Investigations * Fuel Tank Closures and Installations * Site Remediation * Regulatory Reporting

Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

June 5, 2013

Attn: Mr. Keith Nowell, Haz Mat. Specialist for : 15651 Worthley Dr., San Lorenzo

Re: Groundwater Monitoring Well Sampling Event
15651 Worthley Dr., San Lorenzo

On May 3, 2013, a single round of groundwater samples were obtained from monitoring wells MW1, MW2, MW-3 and MW-4. Groundwater samples were collected as follows:

Each well was bailed until the volume of water withdrawn was equal to at least three casing volumes. To assure that a representative groundwater sample was collected periodic measurements of the temperature, pH and specific conductance were made. An individual log sheet was maintained throughout the sampling operations. The sample was collected only when the temperature, pH, and/or specific conductance reached relatively constant value and the well had recharged to a minimum of 80% of its pre-purge volume.

A bailer was used for evacuating the well casing (purging) of the monitor well. Water samples were collected using a disposable bailer. An effort was made to minimize exposure of the sample to air.

Subsequent to collection, the samples were immediately stored on crushed ice in an appropriate ice chest and maintained at a constant 4 degrees Celsius. Samples were transported under Chain-of-Custody procedures to Accutest Laboratories (Accutest) on the day after their collection.

Care was taken to collect all excess water resulting from the sampling and cleaning procedures. The excess water is contained in a pre-labeled 55-gallon drum on-site pending receipt of laboratory analyses.

The following analyses were performed by Accutest on the groundwater samples obtained from each monitor well:

Total Petroleum Hydrocarbon (TPH), C10-28 Range (Method 8015B)
BTEX, MTBE (Method 8021B)

The results of the groundwater samples recovered from monitoring wells MW-1, MW-2 MW-3 and MW-4 indicated detection of TPH C10-28 at concentrations of 26.9, 78.5, 35.6 and 37.5 micrograms per liter (ug/l), respectively

PO Box 2006 * Menlo Park California 94026 * Phone 408/655-9434 * envirest@aol.com

Historical Monitoring Well Analytical Results

Results in micrograms per liter

Date	Sample#	TPH/d	Benzene	Toluene	E-Benzene	Xylenes	MTBE	DTG	GE
9/16/08	MW1	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	2.09	4.96	7.11
1/19/09	MW1	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	0.96	4.01	8.06
10/12/11	MW1	54.6	-----	-----	-----	-----	ND< 5	4.76	7.31
3/12/12	MW1	36.9	ND<1	ND<1	ND<1	ND<2	ND<2	3.95	8.12
10/29/12	MW1	107	-----	-----	-----	-----	-----	4.92	7.15
5/3/13	MW1	26.9	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	3.60	8.47

Date	Sample#	TPH/d	Benzene	Toluene	E-Benzene	Xylenes	MTBE	DTG	GE
9/16/08	MW2	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	ND< 5	5.18	6.52
1/19/09	MW2	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	ND<.5	1.90	9.80
10/12/11	MW2	131	-----	-----	-----	-----	ND<.5	1.79	9.91
3/12/12	MW2	78.4	ND<1	ND<1	ND<1	ND<2	ND<2	2.21	9.49
10/29/12	MW2	98.3	-----	-----	-----	-----	-----	2.76	8.94
5/3/13	MW2	78.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	2.40	9.30

Date	Sample#	TPH/d	Benzene	Toluene	E-Benzene	Xylenes	MTBE	DTG	GE
9/16/08	MW3	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	ND<.5	3.88	8.17
1/19/09	MW3	ND<100	ND<.5	ND<.5	ND<.5	ND<1.5	ND<.5	4.53	7.52
10/12/11	MW3	ND<50	-----	-----	-----	-----	1.9	4.31	7.74
3/12/12	MW3	33.9	ND<1	ND<1	ND<1	ND<2	2.1	4.05	8.00
10/29/12	MW3	67.3	-----	-----	-----	-----	-----	5.01	7.04
5/3/13	MW3	35.6	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	3.45	8.60

Date	Sample#	TPH/d	Benzene	Toluene	E-Benzene	Xylenes	MTBE	DTG	GE
5/3/13	MW4	37.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	3.20	8.28

On May 3, 2013, the water levels in monitor wells MW-1, MW-3 and MW-4 were measured within a one hour period. The water surface elevations in the wells were calculated using survey data. The approximate horizontal hydraulic flow direction was west-northwest at an average 0.39% gradient. Groundwater gradient information is shown in Figure 2.

CONCLUSIONS

It appears that the groundwater at the monitoring well sample points MW-1, MW-2, MW-3 and MW-4 all contained TPH in the C10-28 range at concentrations of 26.9, 78.5, 35.6 and 37.5, ug/l, respectively. These declining concentrations all appear to be below the California Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels, Table F-a, Final Groundwater Screening Level for middle distillates TPH.


Respectfully submitted this 5th day of June, 2013.



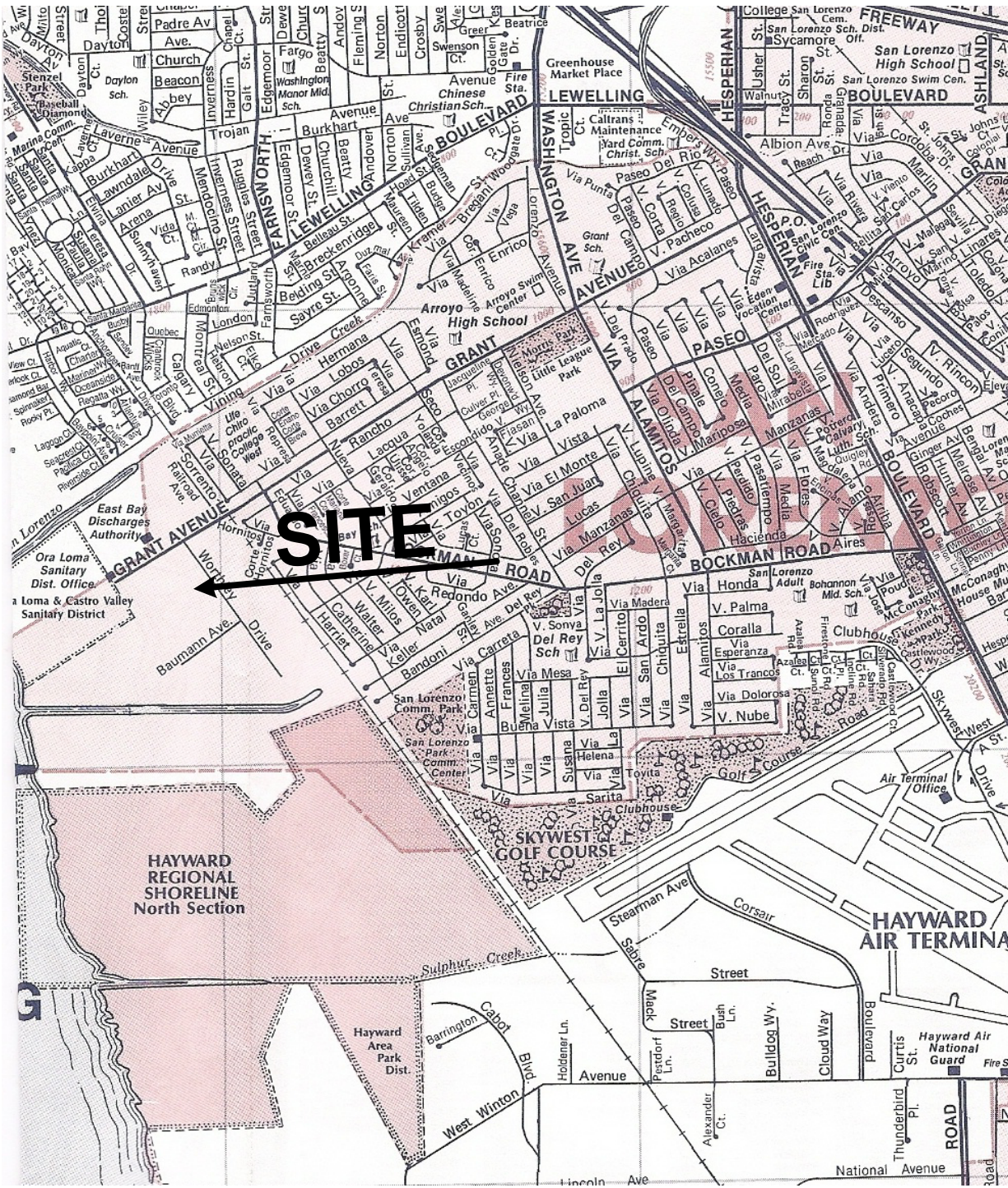
 Bennett T. Halsted
 Project Manager



 Samuel H. Halsted PE
 C.E. (14095)



FIGURES



VICINITY MAP		
15651 Worthley Dr., San Lorenzo, CA		
SCALE: 1" = 0.5 miles		BY:
<i>Environmental Restoration Services</i>		FIGURE 1
PO Box 2006, Menlo Park, CA 94026		



P/L

3/13/13

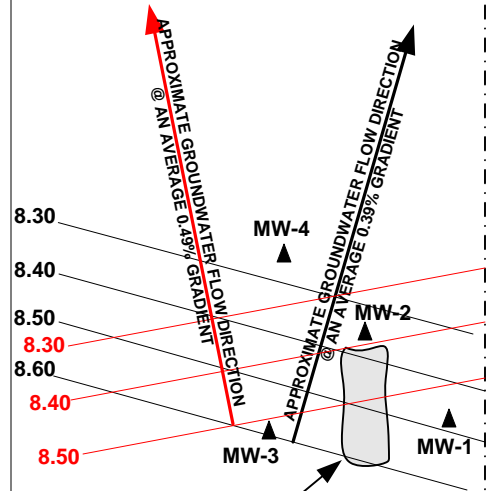
WELL	CASING ELEV.	DEPTH TO G-WTR.	G-WTR. ELEV.
MW1	12.07	3.51	8.56
MW2	11.70	2.21	9.49
MW3	12.05	3.54	8.51
MW4	11.46	3.23	8.23

5/3/13

WELL	CASING ELEV.	DEPTH TO G-WTR.	G-WTR. ELEV.
MW1	12.07	3.60	8.47
MW2	11.70	2.40	9.30
MW3	12.05	3.45	8.60
MW4	11.46	3.20	8.26

P/L

TERMINAL BUILDING



GATE

REPAIR SHOP

GATE

FORMER UST EXCAVATION

WORTHLEY DR.

SITE PLAN

15651 Worthley Dr., San Lorenzo, CA

DATE 5/3/13 SCALE: 1"=60' **FIGURE 2**

Environmental Restoration Services

PO Box 2006, Menlo Park, CA 94026

WELL PURGE LOGS

Environmental Restoration Services

WELL PURGE LOG

WELL ID: MW-3		Site Name: Transportation Terminals				
Site Address: 15651 Worthley Dr., San Lorenzo						
Project No.:			Date: 5/3/13			
Samplers Name: B. Halsted						
Measuring method: Sounder						
Purge Equipment: Bailer						
Water in Well Box? No		Inside diameter of well: 2"				
Conversion factors (CF): 2-inch well = 0.16 gallons/ft., 4-inch well = 0.65 gallons/ft., 6-inch well = 1.47 gallons/ft.,						
Depth to water from top of casing: 3.45						
Total Well Depth: +/- 10.4						
Well volume = (Feet - Feet) X 0.16 = Gallons {total well depth} - {depth to water} {CF}						
Water Volume in Well: +/- 1.12						
Well pumped/bailed dry? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Lab Analysis: 8015M, 8021B						
Sample Containers: (1) liter amber, (3) VOAs						
Sample Equipment: Disposable Bailer						
FIELD MEASUREMENTS						
Time	Gallons	Temp. (F)	pH	Conductivity	Other:	Comments
1:54	1.5	69.3	7.04	3.43		
2:13	3	69.4	7.03	3.48		
2:38	4	69.5	7.01	3.41		
COMMENTS:						

Environmental Restoration Services

WELL PURGE LOG

WELL ID: MW-4		Site Name: Transportation Terminals				
Site Address: 15651 Worthley Dr., San Lorenzo						
Project No.:			Date: 5/3/13			
Samplers Name: B. Halsted						
Measuring method: Sounder						
Purge Equipment:						
Water in Well Box? No		Inside diameter of well: 2"				
Conversion factors (CF): 2-inch well = 0.16 gallons/ft., 4-inch well = 0.65 gallons/ft., 6-inch well = 1.47 gallons/ft.,						
Depth to water from top of casing: 3.20						
Total Well Depth: +/- 8.1						
Well volume = (Feet - Feet) X 0.16 = Gallons {total well depth} - {depth to water} {CF}						
Water Volume in Well: +/- 0.8						
Well pumped/bailed dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Lab Analysis: 8015M, 8021B						
Sample Containers: (1) liter amber, (3) VOAs						
Sample Equipment: Disposable Bailer						
FIELD MEASUREMENTS						
Time	Gallons	Temp. (F)	pH	Conductivity	Other:	Comments
3:30	1	69.4	7.10	3.98		
3:36	2	69.3	7.13	3.94		
3:43	3	69.5	7.09	4.02		
COMMENTS:						

**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS**

Technical Report for

Environmental Restoration Services

T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Accutest Job Number: C27520

Sampling Date: 05/03/13

Report to:

Environmental Restoration Services

envirest@aol.com

ATTN: Ben Halsted

Total number of pages in report: **23**



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.

James J. Rhudy
Lab Director

Client Service contact: Tony Vega 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.

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1

2

3

4

5

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Sample Summary

Environmental Restoration Services

Job No: C27520

T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C27520-1	05/03/13	14:40 BH	05/06/13	AQ	Ground Water	MW3
C27520-2	05/03/13	15:00 BH	05/06/13	AQ	Ground Water	MW1
C27520-3	05/03/13	15:15 BH	05/06/13	AQ	Ground Water	MW2
C27520-4	05/03/13	15:45 BH	05/06/13	AQ	Ground Water	MW4

Summary of Hits

Job Number: C27520
Account: Environmental Restoration Services
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA
Collected: 05/03/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C27520-1	MW3					
TPH (C10-C28) ^a		0.0356 JB	0.094	0.024	mg/l	SW846 8015B M
C27520-2	MW1					
TPH (C10-C28) ^a		0.0269 JB	0.094	0.024	mg/l	SW846 8015B M
C27520-3	MW2					
TPH (C10-C28) ^a		0.0785 JB	0.094	0.024	mg/l	SW846 8015B M
C27520-4	MW4					
TPH (C10-C28) ^a		0.0375 JB	0.094	0.024	mg/l	SW846 8015B M

(a) The associated method blank (MB) had an estimated result greater than MDL, but less than RL; results reported per method criterion of analyte less than RL in MB.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW3		Date Sampled: 05/03/13
Lab Sample ID: C27520-1		Date Received: 05/06/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ35514.D	1	05/09/13	TT	n/a	n/a	GJJ1432
Run #2							

Run #	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	0.50	0.30	ug/l	
108-88-3	Toluene	ND	0.50	0.30	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.30	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		60-151%
460-00-4	4-Bromofluorobenzene	88%		60-151%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3		Date Sampled: 05/03/13
Lab Sample ID: C27520-1		Date Received: 05/06/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42618.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0356	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	77%		32-124%		

(a) The associated method blank (MB) had an estimated result greater than MDL, but less than RL; results reported per method criterion of analyte less than RL in MB.

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		N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW1		Date Sampled: 05/03/13
Lab Sample ID: C27520-2		Date Received: 05/06/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ35515.D	1	05/09/13	TT	n/a	n/a	GJJ1432
Run #2							

Run #	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	0.50	0.30	ug/l	
108-88-3	Toluene	ND	0.50	0.30	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.30	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		60-151%
460-00-4	4-Bromofluorobenzene	80%		60-151%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW1	
Lab Sample ID: C27520-2	Date Sampled: 05/03/13
Matrix: AQ - Ground Water	Date Received: 05/06/13
Method: SW846 8015B M SW846 3510C	Percent Solids: n/a
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42619.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0269	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	91%		32-124%		

(a) The associated method blank (MB) had an estimated result greater than MDL, but less than RL; results reported per method criterion of analyte less than RL in MB.

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		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW2		
Lab Sample ID: C27520-3		Date Sampled: 05/03/13
Matrix: AQ - Ground Water		Date Received: 05/06/13
Method: SW846 8021B		Percent Solids: n/a
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ35516.D	1	05/09/13	TT	n/a	n/a	GJJ1432
Run #2							

Run #	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	0.50	0.30	ug/l	
108-88-3	Toluene	ND	0.50	0.30	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.30	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		60-151%
460-00-4	4-Bromofluorobenzene	79%		60-151%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW2		Date Sampled: 05/03/13
Lab Sample ID: C27520-3		Date Received: 05/06/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42620.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0785	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	88%		32-124%		

(a) The associated method blank (MB) had an estimated result greater than MDL, but less than RL; results reported per method criterion of analyte less than RL in MB.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW4	
Lab Sample ID: C27520-4	Date Sampled: 05/03/13
Matrix: AQ - Ground Water	Date Received: 05/06/13
Method: SW846 8015B M SW846 3510C	Percent Solids: n/a
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG42621.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0375	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
630-01-3	Hexacosane	96%		32-124%		

(a) The associated method blank (MB) had an estimated result greater than MDL, but less than RL; results reported per method criterion of analyte less than RL in MB.

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		N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

ACCUTEST LABORATORIES

FED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest NC Job #: **C27520**

ERS CAMPB09

Client / Reporting Information		Project Information		Requested Analysis										Matrix Codes	
Company Name Environmental Restoration Service		Project Name King Terminal		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TPTD w/ 51 calgel ERS 805 M BTEX MATS E 8021 </div>										WW- Wastewater	
Address P.O. Box 2006		Street 15651 Cortney												GW- Ground Water	
City Menlo Park		City San Lorenzo												SW- Surface Water	
State Ca		State CA												SO- Soil	
Zip 94024		Project #		OI- Oil											
Project Contact B. Nalsed		Client Purchase Order #		WP- Wpc											
Phone # 408-655-9434		EMAIL:		LID - Non-aqueous Liquid											
Sampler's Name B. Nalsed		Collection		AIR											
		Date		DW- Drinking Water (Perchlorate Only)											
		Time		LAB USE ONLY											
		Sampled by													
		Matrix													
		# of bottles													
		MFC													
		MCH													
		MCD													
		MCS													
		MNE													
		MND													
		MNO													
		MNP													
		MNS													
		MNT													
		MNU													
		MNV													
		MNX													
		MNY													
		MNZ													
		MNA													
		MNB													
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		MNX													
		MNY													
		MNZ													
		MNA													
		MNB													
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C27520
 Client: ENVIRONMENTAL RESTORATION SERVI
 Project: Trans Terminals - San Lorenzo, CA
Date / Time Received: 5/6/2013
 Delivery Method: Client
 Airbill #s:

Cooler Temps (Initial/Adjusted): #1: (4.2/3.2): 0

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input type="checkbox"/>	4. Smp'l Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments 1-Liter Volume per sample for TPH-d

4.1
4

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C27520
Account: ERSCAMP Environmental Restoration Services
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GJJ1432-MB	JJ35512.D	1	05/08/13	TT	n/a	n/a	GJJ1432

The QC reported here applies to the following samples:

Method: SW846 8021B

C27520-1, C27520-2, C27520-3, C27520-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.30	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.30	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	
108-88-3	Toluene	ND	0.50	0.30	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Result	Limits
460-00-4	4-Bromofluorobenzene	92%	60-151%
460-00-4	4-Bromofluorobenzene	91%	60-151%

5.1.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27520

Account: ERSCAMP Environmental Restoration Services

Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GJJ1432-BS	JJ35510.D	1	05/08/13	TT	n/a	n/a	GJJ1432
GJJ1432-BSD	JJ35511.D	1	05/08/13	TT	n/a	n/a	GJJ1432

The QC reported here applies to the following samples:

Method: SW846 8021B

C27520-1, C27520-2, C27520-3, C27520-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	10	9.7	97	9.7	97	0	79-121/19
100-41-4	Ethylbenzene	10	9.6	96	9.6	96	0	81-119/18
1634-04-4	Methyl Tert Butyl Ether	10	10.0	100	9.8	98	2	59-139/17
108-88-3	Toluene	10	9.5	95	9.6	96	1	82-118/17
1330-20-7	Xylenes (total)	30	28.7	96	28.7	96	0	81-121/19

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	99%	60-151%
460-00-4	4-Bromofluorobenzene	94%	94%	60-151%

* = Outside of Control Limits.

5.2.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C27520
Account: ERSCAMP Environmental Restoration Services
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C27520-2MS	JJ35518.D	1	05/09/13	TT	n/a	n/a	GJJ1432
C27520-1MSD	JJ35519.D	1	05/09/13	TT	n/a	n/a	GJJ1432
C27520-1	JJ35514.D	1	05/09/13	TT	n/a	n/a	GJJ1432

The QC reported here applies to the following samples: **Method:** SW846 8021B

C27520-1, C27520-2, C27520-3, C27520-4

CAS No.	Compound	C27520-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	10	8.9	89	9.2	92	3	79-121/19
100-41-4	Ethylbenzene	ND	10	8.7	87	9.1	91	4	81-119/18
1634-04-4	Methyl Tert Butyl Ether	ND	10	10.2	102	9.4	94	8	59-139/17
108-88-3	Toluene	ND	10	8.7	87	9.1	91	4	82-118/17
1330-20-7	Xylenes (total)	ND	30	26.1	87	27.5	92	5	81-121/19

CAS No.	Surrogate Recoveries	MS	MSD	C27520-1	Limits
460-00-4	4-Bromofluorobenzene	90%	99%	87%	60-151%
460-00-4	4-Bromofluorobenzene	90%	99%	88%	60-151%

* = Outside of Control Limits.

5.3.1
5

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C27520
Account: ERSCAMP Environmental Restoration Services
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7945-MB	GG42617.D	1	05/08/13	RV	05/07/13	OP7945	GGG1143

The QC reported here applies to the following samples:

Method: SW846 8015B M

C27520-1, C27520-2, C27520-3, C27520-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0253	0.10	0.025	mg/l	J

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	92% 32-124%

(a) Outside control limits but below half the reporting limit.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C27520
Account: ERSCAMP Environmental Restoration Services
Project: T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7945-BS	GG42624.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143
OP7945-BSD	GG42625.D	1	05/09/13	RV	05/07/13	OP7945	GGG1143

The QC reported here applies to the following samples: Method: SW846 8015B M

C27520-1, C27520-2, C27520-3, C27520-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1	0.640	64	0.652	65	2	38-115/22

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	86%	88%	32-124%

* = Outside of Control Limits.