Transportation Terminals Company PO Box 882682

San Francisco, CA 94188-2682

Date:8/15/2013From:Bob LawlorTo;Haz. Materials Specialist, Alameda Co. Environmental HealthSubject:15651 Worthley Drive, San Lorenzo CARECEIVEDBy Alameda County Environmental HealthAug 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 Lawfor Rul Haus General Partner

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Each well was bailed until the volume of water withdrawn was equal to at least three casing volumes.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

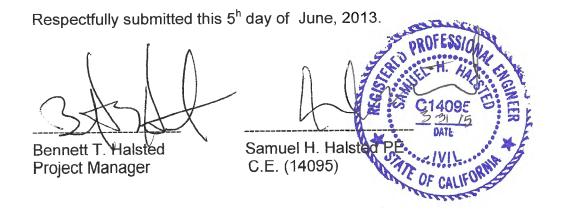
PO Box 2006 * Menlo Park California 94026 * Phone 408/655-9434 * envirest@aol.com

		oring Well Analytic	al Resul	ts
	Results in	micrograms per liter		
Date Sample#	TPH/d Benzene	Toluene E-Benzene	e 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 MVV1	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-Benzen	e Xvlenes	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
5/5/15 10002	70.0 110 40.0			
Date Sample#	TPH/d Benzene	Toluene E-Benzen	e 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
	33.9 ND<1	ND<1 ND<1	ND<2	2.1 4.05 8.00
				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 F-Benzen	e Xvlenes	MTBE DTG GE
			ND<1	
1/19/09 MW3 10/12/11 MW3 3/12/12 MW3 10/29/12 MW3	ND<50 33.9 ND<1 67.3 35.6 ND<0.5	ND<1 ND<1 ND<0.5 ND<0.5	ND<2 ND<1 ND<1	1.9 4.31 7.74 2.1 4.05 8.00 5.01 7.04 ND<3

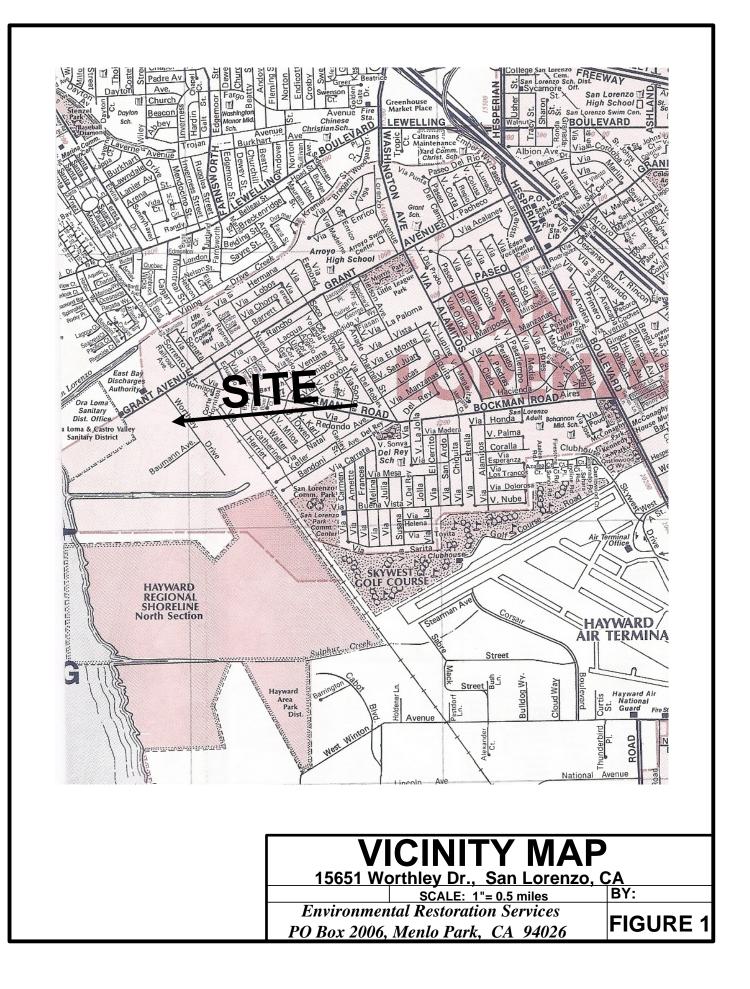
On May 3, 2013, the water levels in monitor wells MW-1, MW-3 and MW-4 were measured within a one hour period. The water surface elevations in the wells were calculated using survey data. The approximate horizontal hydraulic flow direction was west-northwest at an average 0.39% gradient. Groundwater gradient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

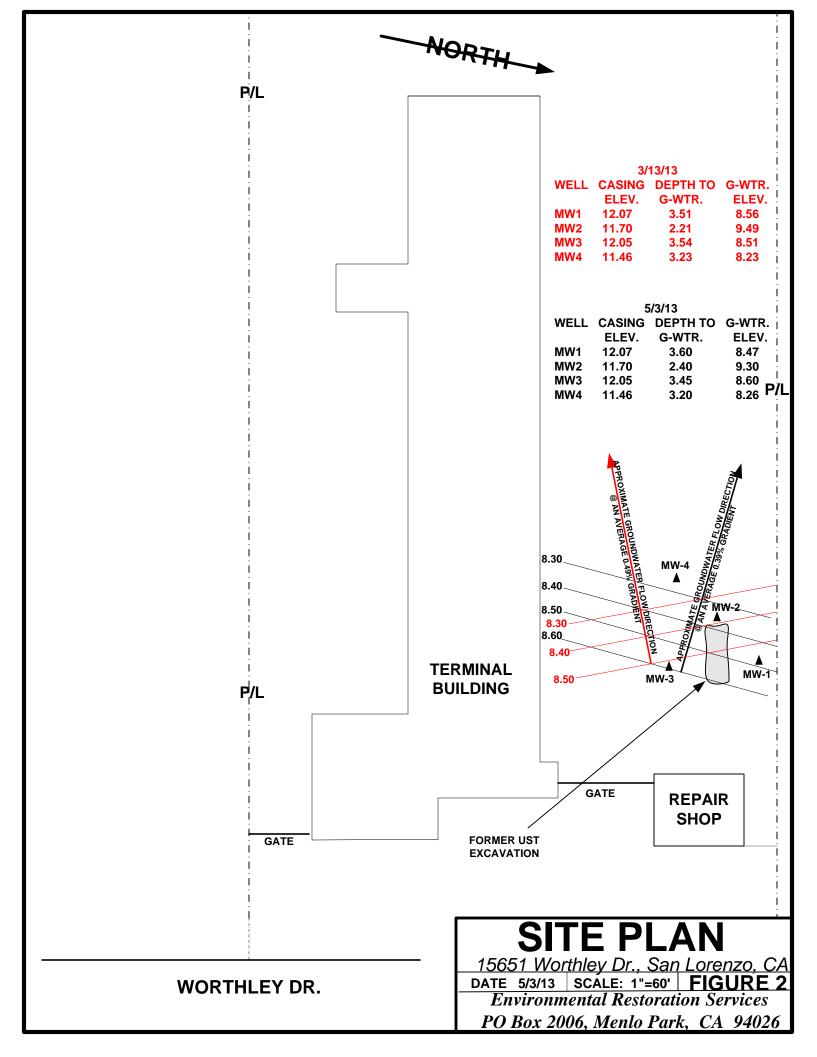
CONCLUSIONS

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.



FIGURES





WELL PURGE LOGS

WELL ID: MW-3	Site Name: Transportation Terminals							
Site Address: 15651 Worthley Dr	r., San Lorenzo							
Project No.:	Date: 5/3/13							
Samplers Name: B. Halsted								
Measuring method: Sounder								
Purge Equipment: Bailer								
Water in Well Box? No Insid	te diameter of well: 2"							
Conversion factors (CF): 2-ir	nch 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 casin	g: 3.45							
Total Well Depth: +/- 10.4								
Well volume = (Feet - Feet {total well depth} -	t) X 0.16 = Gallons · {depth to water} {CF}							
Water Volume in Well: +/- 1.12								
Well pumped/bailed dry? <u>x</u> Yes	s No							
Lab Analysis: 8015M, 8021B								
Sample Containers: (1) liter amb	er, (3) VOAs							
Sample Equipment: Disposabl	e Bailer							
FIEL	D MEASUREMENTS							
Time Gallons Temp. (F) pH	- Conductivity Other: Comments							
1:54 1.5 69.3 7.0	4 3.43							
2:13 3 69.4 7.03	3 3.48							
2:38 4 69.5 7.01	3.41							
COMMENTS:	COMMENTS:							

WELL ID: MW-1	Site Name: Transportation Terminals								
Site Address: 15651 Worthley D	r., San Lorenzo								
Project No.:	Date: 5/3/13								
Samplers Name: B. Halsted									
Measuring method: Sounder									
Purge Equipment:									
Water in Well Box? No Insid	de diameter of well: 2"								
Conversion factors (CF): 2-ir	nch well = 0.16 gallons/ft.,								
4-inch well = 0.65 gallons/ft.,	6-inch well = 1.47 gallor	ns/ft.,							
Depth to water from top of casir	ng: 3.60								
Total Well Depth: +/- 9.6									
Well volume = (Feet - Fee {total well depth}	t) X 0.16 = Gallons - {depth to water} {CF}								
Water Volume in Well: +/- 0.95									
Well pumped/bailed dry?Ye	s <u>x</u> No								
Lab Analysis: 8015M, 8021B									
Sample Containers: (1) liter amb	er, (3) VOAs								
Sample Equipment: Disposab	le Bailer								
FIEI	LD MEASUREMENTS								
Time Gallons Temp. (F) pł	H Conductivity Other: Co	omments							
2:50 1 70.3 7.1	1 8.12								
2:55 2 70.5 7.13	3 8.03								
2:59 3 70.1 7.15	5 7.98								
COMMENTS:									

WELL ID: MW-2	Site Name: Transportation Terminals							
Site Address: 15651 Worthley D	r., San Lorenzo							
Project No.:	Date: 5/3/13							
Samplers Name: B. Halsted								
Measuring method: Sounder								
Purge Equipment: Bailer								
Water in Well Box? No Insid	de diameter of well: 2"							
Conversion factors (CF): 2-ir	nch well = 0.16 gallons/ft.,							
4-inch well = 0.65 gallons/ft.,	6-inch well = 1.47 gallo	ons/ft.,						
Depth to water from top of casir	ng: 2.40							
Total Well Depth: +/- 9.7								
Well volume = (Feet - Fee {total well depth}	t) X 0.16 = Gallons - {depth to water} {CF}							
Water Volume in Well: +/- 1.17								
Well pumped/bailed dry?Ye	s <u>x</u> No							
Lab Analysis: 8015M, 8021B								
Sample Containers: (1) liter amb	er, (3) VOAs							
Sample Equipment: Disposable	e Bailer							
FIEI	LD MEASUREMENTS							
Time Gallons Temp. (F) pł	H Conductivity Other: C	omments						
3:06 1.5 69.3 6.9	1 4.20							
3:11 3 69.7 6.99	9 4.15							
3:15 4 69.6 7.02	2 4.11							
COMMENTS:								

WELL ID: MW-4	Site Name: Transportation Terminals	3						
Site Address: 15651 Worthley E	r., San Lorenzo							
Project No.:	Date: 5/3/13							
Samplers Name: B. Halsted								
Measuring method: Sounder								
Purge Equipment:								
Water in Well Box? No Insi	de diameter of well: 2"							
Conversion factors (CF): 2-i	nch well = 0.16 gallons/ft.,							
4-inch well = 0.65 gallons/ft	, 6-inch well = 1.47 ga	allons/ft.,						
Depth to water from top of casi	ng: 3.20							
Total Well Depth: +/- 8.1								
Well volume = (Feet - Fee								
	- {depth to water} {CF}							
Water Volume in Well: +/- 0.8								
Well pumped/bailed dry?Ye	s <u>x</u> No							
Lab Analysis: 8015M, 8021B								
Sample Containers: (1) liter amb	er, (3) VOAs							
Sample Equipment: Disposa	ble Bailer							
FIE	_D MEASUREMENTS							
Time Gallons Temp. (F) p	- Conductivity Other:	Comments						
3:30 1 69.4 7.1	0 3.98							
3:36 2 69.3 7.1	3 3.94							
3:43 3 69.5 7.0	9 4.02							
COMMENTS:	-							

CHAIN-OF-CUSTODY ANALYTICAL RESULTS



07/26/13

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



Jung. Kudy

James J. Rhudy Lab Director

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.

Client Service contact: Tony Vega 408-588-0200

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

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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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Sections:



Sample Summary

Environmental Restoration Services

Job No: C27520

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

Sample Number	Collected Date Tin	me By	Received	Matri Code		Client Sample ID
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 Analyte	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.

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Sample Results

Report of Analysis



Report of Analysis

Client Sar Lab Samp Matrix: Method: Project:	ple ID: C275 AQ - SW84	20-1 Ground Wa 46 8021B		-15651 W	Date Sampled:05/03/13Date Received:05/06/13Percent Solids:n/aWorthley Drive, San Lorenzo CA		
Run #1 Run #2	File ID JJ35514.D	DF 1	Analyzed 05/09/13	By TT	Prep Date n/a	Prep Batch n/a	Analytical Batch GJJ1432
Run #1 Run #2	Purge Volum 10.0 ml	e					

Purgeable Aromatics, MTBE

Compound	Result	RL	MDL	Units	Q
D	ND	0.50	0.20	/1	
Benzene	ND	0.50	0.30	ug/I	
Toluene	ND	0.50	0.30	ug/l	
Ethylbenzene	ND	0.50	0.30	ug/l	
Xylenes (total)	ND	1.0	0.60	ug/l	
Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	
Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
4-Bromofluorobenzene	87%		60-1	51%	
4-Bromofluorobenzene	88%		60-1	51%	
	Benzene Toluene Ethylbenzene Xylenes (total) Methyl Tert Butyl Ether Surrogate Recoveries 4-Bromofluorobenzene	BenzeneNDTolueneNDEthylbenzeneNDXylenes (total)NDMethyl Tert Butyl EtherNDSurrogate RecoveriesRun# 14-Bromofluorobenzene87%	BenzeneND0.50TolueneND0.50EthylbenzeneND0.50Xylenes (total)ND1.0Methyl Tert Butyl EtherND3.0Surrogate RecoveriesRun# 1Run# 24-Bromofluorobenzene87%	Benzene ND 0.50 0.30 Toluene ND 0.50 0.30 Ethylbenzene ND 0.50 0.30 Xylenes (total) ND 1.0 0.60 Methyl Tert Butyl Ether ND 3.0 1.0 Surrogate Recoveries Run# 1 Run# 2 Limited Lim	Benzene ND 0.50 0.30 ug/l Toluene ND 0.50 0.30 ug/l Ethylbenzene ND 0.50 0.30 ug/l Xylenes (total) ND 1.0 0.60 ug/l Methyl Tert Butyl Ether ND 3.0 1.0 ug/l Surrogate Recoveries Run#1 Run#2 Limits 4-Bromofluorobenzene 87% 60-151%

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



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			Repo	ort of A	nalysis		Page 1 of
Client Sar Lab Samp Matrix: Method: Project:	ole ID: C275 AQ - SW8	520-1 Ground Wa 46 8015B M	SW846 3510	-	Dat	e Received: () cent Solids: r	05/03/13 05/06/13 √a
Run #1 Run #2	File ID GG42618.D	DF 1	Analyzed 05/09/13	By RV	Prep Date 05/07/13	Prep Batch OP7945	Analytical Batch GGG1143
Run #1 Run #2	Initial Volun 1060 ml	ne Final V 1.0 ml	olume				
TPH Extr CAS No.	actable w/ Silio Compound	ca Gel Clean	up Result	RL	MDL Units	0	

	Compound	Result	KL	MDL	Onits	Y
	TPH (C10-C28) ^a	0.0356	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	77%		32-1	24%	

(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.

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



Method:

Project:

Run #1

Run #2

Run #1

Run #2

		Report of Analysis		
Client Sample ID:	MW1			
Lab Sample ID:	C27520-2		Date Sampled:	05/03/13
Matrix:	AQ - Ground Water		Date Received:	05/06/13

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

By

TT

Prep Date

n/a

Analyzed

05/09/13

Percent Solids:

n/a

Prep Batch

n/a

Page 1 of 1

Analytical Batch

GJJ1432

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3.2

Purgeable Aromatics, MTBE

10.0 ml

File ID

JJ35515.D

Purge Volume

SW846 8021B

DF

1

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 Xylenes (total) Methyl Tert Butyl Ether	ND ND ND ND ND	$0.50 \\ 0.50 \\ 0.50 \\ 1.0 \\ 3.0$	0.30 0.30 0.30 0.60 1.0	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits		its	
460-00-4 460-00-4	4-Bromofluorobenzene 4-Bromofluorobenzene	83% 80%		60-1 60-1		

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



Accutest Laboratories

Client Sample ID: Lab Sample ID: Matrix: Method: Project:	 A SW846 3510	C	Dat	1	//03/13 //06/13
	rians reminais	15651 W	orthley Drive, San		à
File ID Run #1 GG426 Run #2	Analyzed 05/09/13	By RV	Prep Date 05/07/13	Prep Batch OP7945	Analytical Batch GGG1143
Initial Run #1 1060 m Run #2	 Volume				

						· ·
	TPH (C10-C28) ^a	0.0269	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	91%		32-1	24%	

(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.

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



3.2

Client San Lab Samp Matrix: Method: Project:	le ID: (MW2 C27520-3 AQ - Ground Wa SW846 8021B F06019710220-Tr		-15651 W	D	Pate Received:05Percent Solids:n/2	
Run #1 Run #2	File ID JJ35516.1	DF D 1	Analyzed 05/09/13	By TT	Prep Date n/a	Prep Batch n/a	Analytical Batch GJJ1432
Run #1 Run #2	Purge Ve 10.0 ml	olume					

Report of Analysis

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 Xylenes (total)	ND ND ND ND	0.50 0.50 0.50 1.0	0.30 0.30 0.30 0.60	ug/l ug/l ug/l ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
460-00-4 460-00-4	4-Bromofluorobenzene 4-Bromofluorobenzene	81% 79%		60-1: 60-1:		

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

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Accutest Laboratories

	⁷ ater M SW846 3510	G		L	5/03/13
	Trans Terminals-		Per orthley Drive, San	cent Solids: n/	a/06/13
DF 20. D 1	Analyzed 05/09/13	By RV	Prep Date 05/07/13	Prep Batch OP7945	Analytical Batch GGG1143
	20.D 1 Volume Final 1 1.0 m	20.D 1 05/09/13 Volume Final Volume	20.D 1 05/09/13 RV Volume Final Volume 1 1.0 ml	20.D 1 05/09/13 RV 05/07/13 Volume Final Volume 1 1.0 ml	20.D 1 05/09/13 RV 05/07/13 OP7945 Volume Final Volume 1 1.0 ml

Report of Analysis

	I I I I I					· ·
	TPH (C10-C28) ^a	0.0785	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	88%		32-1	24%	

(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.

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



2.2

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Report of Analysis

Client San Lab Samj Matrix: Method: Project:	AQ - SW8	520-4 Ground Wa 46 8021B		-15651 W	Da	ate Received: 05 crcent Solids: n/	
Run #1 Run #2	File ID JJ35517.D	DF 1	Analyzed 05/09/13	By TT	Prep Date n/a	Prep Batch n/a	Analytical Batch GJJ1432
Run #1 Run #2	Purge Volun 10.0 ml	ne					

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	Limi	its	
460-00-4	4-Bromofluorobenzene	89%		60-1	510/	
					/ -	
460-00-4	4-Bromofluorobenzene	89%		60-1	51%	

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

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Accutest Laboratories

Report	of	Analysis
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Client San Lab Samp Matrix: Method: Project:	ple ID: C27520 AQ - Gi SW846	ound Wa 8015B M	SW846 3510	-	Da	ate Received: 04 rcent Solids: n/	
Run #1 Run #2	File ID GG42621.D	DF 1	Analyzed 05/09/13	By RV	Prep Date 05/07/13	Prep Batch OP7945	Analytical Batch GGG1143
Run #1 Run #2	Initial Volume 1060 ml	Final V 1.0 ml					
TPH Extr CAS No.	cactable w/ Silica (Compound	Gel Clear	nup Result	RL	MDL Unit	s Q	

CAS NO.	Compound	Kesun	KL	MDL	Units	Q
	TPH (C10-C28) ^a	0.0375	0.094	0.024	mg/l	JB
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	ite	
	Surrogate Recoveries	Kull# 1	Kull# 2	1/1111	115	

(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.

- $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$
- N = Indicates presumptive evidence of a compound



3.4

Section 4

4



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



		(CHAI	NC	DF (сu	ST	0	DY	,													
		Electronicalities	2105 L	undy Av	e, San J	ose, C	A 951	31				FED-EX	FED-EX Yracking #				Bottle C	rder Conti	ol #				
ACCUTE	- 6	6	(408) 5	88-0200	FAX	(408) 588-(0201				Accutest Quote # Accutest NC Job #: C				07	27520						
LABORA	тов	IES					Ex	eee	AW	۱۹۸	<u>307</u>	- 3986				942144A					$\underline{\smile}$	- T	520
Client / Reporting Information		ST 2513-53		ect Infor		Т	n na secologiji	andreaday	erano.	QAR9	<u> 20 1</u>			1999 - A.A.	90900		Requ	ested Ar	alysis		100000		Matrix Codes
Company Name Environmental Restination Service		Project N	ame:	Find	Ter			۰ ۱				Cie.	*										WW- Wastewater GW- Ground Water
Address P.O. Bux 2006		Street	156	51	1001	/h/	ey					5 125											SW- Surface Water SO- Soil
Mentolark Cen 9402	Zip / (City	San	6	en20	\$	{ato)	C A	۰ ۱			51 100	т П										Oł-Oł WP-Wge
Project Connect: Jalsed		Project #	-					1	MH .										LIQ - Non-aqueous Liquid				
Phone # 408-155-9-134								32	2-	5									AIR				
Samplers's Name B. Halstd		Client Pu	rchase Order i	¥								10h	246	Š									DW- Drinking Water (Perchlorate Only)
		Collecti	ion	-		Num	per of p	prese			- T	TPH	μC	٩									
Accutest Sample ID Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Ÿ	HOW CONH	NOSCH	NONE	NaHSO4	WEOH	t.	3										LAB USE ONLY
-1 MW3	SHB	240	RF	\mathbb{W}	4	x						Х	X										
-2 MW1		3°°m				ľ						, X	Ϊx										
-3 MW2		215										X	ĺχ										
-4 MU14		345		IJ,								K	X										
	V			Ň									ľ										
										Т													
											Τ					1							
Turnaround Time (Business days)		ang a gan			liverable In		n	188800	64.955	(e) (a)		00000088	192298	ann a sao an	282114932254	á	Comm	ents / Rer	narks			2010013	
Appro	oved By:/ Date	ə:			' - Results ' - Results	-																	
5 Day			(Land		· Result				orams														
3 Day (125% markup)					data pack																		
2 Day (150% markup)			EDF fo	or Geotrad	ker		EDD Fo	ormat															
1 Day (200% markup)			Provide	EDF Glo	bal ID																		
Same Day (300% markup)			Provide	EDF Log	code:																		
Emergency T/A data available VIA Lablink			<u> </u>										I					Linese a	abaalahaa				
Reliangished by Samples: // Sample Custody mu	Date Time:	10 10	Received By:	ime sam	pies cha	nge po	ssess	Reling			ourier	delivery.		Date Tin	1e:			Received	By:	049400	1000000		Contraction of the second s
1St Dat	5/6/1	3	12	St.	L-			2										2					
Relidquished by:	Date Time:		Received By:	1				Reling	gulshed	1 By:				Date Tin	10;			Received	f By:				
3			3	/				4				-1					space Y	4		On Ice Y	<u></u>		Cooler Temp.
Relinquished by:	Oate Time:		Received By:					Custo	dy Seal	1#			iate Bottl 1atch Coc	e i Pres () 17 M N	7.14			少 g Check Ll		on really Mi	"un	-10	<u>= 3, Z</u> «
5	L		5					J				1		~								1.0	

C27520: Chain of Custody Page 1 of 2



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ACCUTEST.
LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	227520	Client: ENVIRO	ONMENTAL REST	FORATION SERVI	Project: Trans Terminal	s - San Lorenz	o, CA	
Date / Time Received:	5/6/2013	Deliver	y Method:	Client	Airbill #'s:			
Cooler Temps (Initial/Adju	usted): <u>#1: (4.2</u>	<u>2/3.2); 0</u>						
Cooler Security 1. Custody Seals Present:	<u>Y or N</u> □ <u>V</u>	3. COC Present: I. Smpl Dates/Time OF	<u>Y or N</u> ✓ □	1. Sample labels	y - Documentation present on bottles:	Y or ☑	<u>N</u>	
2. Custody Seals Intact: Cooler Temperature	<u>Y or I</u>			 Container labe Sample container 	ling complete: ner label / COC agree:	V		
 Temp criteria achieved: Cooler temp verification: Cooler media: No. Coolers: 	✓ [IR Gu Ice (Ba 1			Sample Integri 1. Sample recvd 2. All containers 3. Condition of sa	within HT: accounted for:	<u>Yor</u> ✓ ✓ Inta		
Quality Control_Preserva	<u>tion Y or</u>	N N/A			ty - Instructions		N	N/A
 Trip Blank present / cooler Trip Blank listed on COC: 				 Analysis require Bottles received 	ested is clear: ed for unspecified tests			_
 Samples preserved prope VOCs headspace free: 					me recvd for analysis: nstructions clear:			
Comments 1-Liter Volume	per sample for TP	PH-d		5. Filtering instru	ictions clear:			\checkmark

Accutest Laboratories V:408.588.0200 2105 Lundy Avenue F: 408.588.0201 San Jose, CA 95131 www/accutest.com 4.4

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C27520: Chain of Custody Page 2 of 2



Section 5

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QC Data Summaries

Includes the following where applicable:

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



Method Blank Summary

Job Number: Account: Project:			ntal Restoration Serminals-15651		Drive, San Lorer	nzo CA					
Sample GJJ1432-MB	File ID JJ35512.D	DF 1	Analyzed 05/08/13	By TT	Prep Date n/a	Prep Batch n/a	Analytical Batch 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
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylenes (total)	ND ND ND ND ND	$\begin{array}{c} 0.50 \\ 0.50 \\ 3.0 \\ 0.50 \\ 1.0 \end{array}$	0.30 0.30 1.0 0.30 0.60	ug/l ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limits		
460-00-4 460-00-4	4-Bromofluorobenzene 4-Bromofluorobenzene	92% 91%	60-151 60-151	, .	

Page 1 of 1



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 GJJ1432-BS JJ35510 GJJ1432-BSD JJ35511).D 1	Analyzed 05/08/13 05/08/13	By TT TT	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch GJJ1432 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	BS	D	Limits			
460-00-4	4-Bromofluorobenzene	97%	99%	6	60-1519	%		
460-00-4	4-Bromofluorobenzene	94%	94%	6	60-1519	%		



Matrix Spike/Matrix Spike Duplicate Summary

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

lvtical Batch	Analytica	Prep Batch	rep Date	Bv	Analyzed	DF	File ID	Sample
•	GJJ1432	n/a	a a	TT	05/09/13	1	JJ35518.D	C27520-2MS
432	GJJ1432	n/a	'a	TT	05/09/13	1	JJ35519.D	C27520-1MSD
432	GJJ1432	n/a	'a	TT	05/09/13	1	JJ35514.D	C27520-1
		,	,	TT TT		1 1		C27520-1MSD C27520-1

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 Q	Spike 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	C27	/520-1	Limits			
460-00-4	4-Bromofluorobenzene	90%	99%	87%	,)	60-151%	, D		
460-00-4	4-Bromofluorobenzene	90%	99%	88%	, D	60-151%	, D		

5.3.1

Section 6

6



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 Account: Project:	ERSCAMP Environmental Restoration Services										
Sample OP7945-MB		DF Analyzed 05/08/13	•		p Date 07/13	Prep Batch OP7945	Analytical Batch 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	5	Limit	5							
630-01-3	Hexacosane	92%	32-124%								

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



Blank Spike/Blank Spike Duplicate Summary

Job Numb	er: C27520	ike Dup	mait	Summ	lal y				Page 1 of 1	
Account:		ERSCAMP Environmental Restoration Services								
Project:	T06019710220-					ive, San L	orenzo	CA		
Sample	File ID	DF	Analyz			Prep Dat		Prep Bate	•	
OP7945-B			05/09/1			05/07/13		OP7945	GGG1143	
OP7945-B	SD GG42625.D	1	05/09/1	13 RY	V	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 </th										
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 Recover	ies	BSP	BS	D	Limits				

88%

32-124%

86%

630-01-3

Hexacosane

6.2.1 6

