

Transportation Terminals Company  
PO Box 882682  
San Francisco, CA 94188-2682

Date: 11/05/2012  
From: Bob Lawlor  
To; Haz. Materials Specialist, Alameda Co. Environmental Health  
Subject: 15651 Worthley Drive, San Lorenzo CA R02558

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

**RECEIVED**

9:02 am, Nov 08, 2012

Alameda County  
Environmental Health

# 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

November 5, 2012

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 October 29, 2012, a single round of groundwater samples were obtained from monitoring wells MW1, MW2 and MW-3. 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Each well was bailed until the volume of water withdrawn was equal to at least three casing volumes.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:

TPH-diesel (Method 8015B)

The results of the groundwater samples recovered from monitoring wells MW-1, MW-2 and MW-3 indicated detection of Total Petroleum Hydrocarbon as diesel (TPH/d) at concentrations of 107, 98.2 and 67.3 micrograms per liter (ug/l), respectively

## 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 |
| 10/25/12 | MW1     | 107    | -----   | -----   | -----     | -----   | ----- | 4.92 | 7.15 |

| 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 |
| 10/25/12 | MW2     | 98.2   | -----   | -----   | -----     | -----   | ----- | 2.76 | 8.94 |


| 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 |
| 10/25/12 | MW3     | 67.3   | -----   | -----   | -----     | -----   | ----- | 5.01 | 7.04 |

On October 29, 2012, the water levels in monitor wells MW-2, MW-3 and MW-1 were measured within a one hour period. The water surface elevations in the wells were calculated using the survey data. However, the horizontal hydraulic gradient was not calculated because the unusually shallow groundwater elevation in monitoring well MW-2.

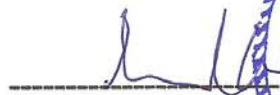
## CONCLUSIONS

It appears that the groundwater at the monitoring well sample points MW-1, MW-2 and MW-3 all contained TPH/d contaminants at concentrations of of 107, 98.2 and 67.3 ug/l, respectively.

Respectfully submitted this 5<sup>h</sup> day of November, 2012.



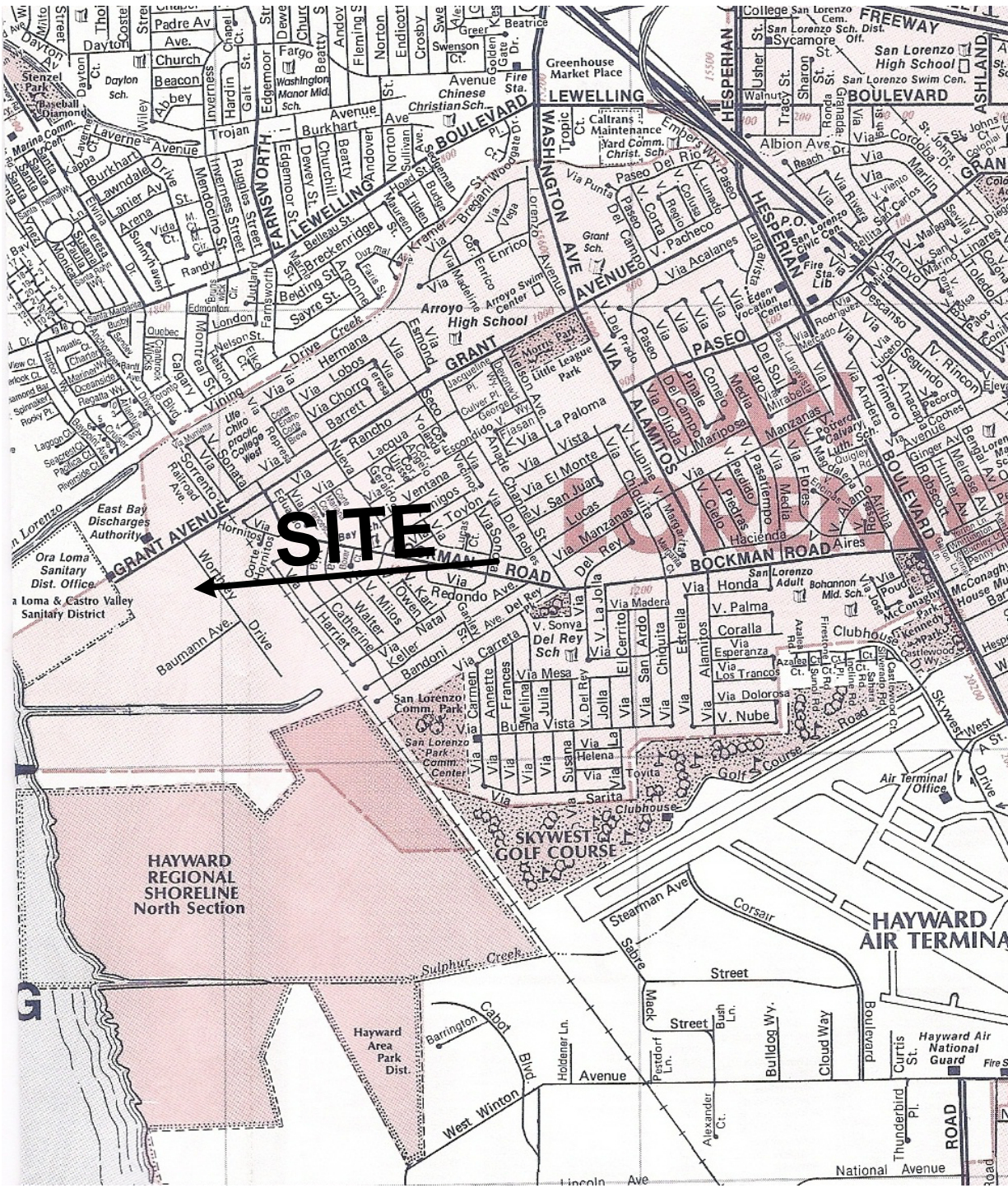
**Bennett T Halsted**  
Project Manager



**Samuel H Halsted**  
CE 14095



# FIGURES



|   |  |                 |
|---|--|-----------------|
| <b>VICINITY MAP</b>                       |  |                 |
| 1561 Worthley Dr., San Lorenzo, CA        |  |                 |
| SCALE: 1" = 0.5 miles                     |  | BY:             |
| <i>Environmental Restoration Services</i> |  | <b>FIGURE 1</b> |
| PO Box 2006, Menlo Park, CA 94026         |  |                 |

P/L



P/L

| WELL | CASING ELEV. | DEPTH TO G-WTR. | G-WTR. ELEV. |
|------|--------------|-----------------|--------------|
| MW1  | 12.07        | 4.92            | 7.15         |
| MW2  | 11.70        | 2.76            | 8.94         |
| MW3  | 12.05        | 5.01            | 7.04         |

P/L

TERMINAL BUILDING

FORMER UST EXCAVATION

CONCRETE PAD

MW-2

MW-3

MW-1

GATE

REPAIR SHOP

GATE

WORTHLEY DR.

# SITE PLAN

15651 Worthley Dr., San Lorenzo, CA

DATE 10/25/12 SCALE: 1"=60' FIGURE 2

Environmental Restoration Services

PO Box 2006, Menlo Park, CA 94026

# **WELL PURGE LOGS**

# Environmental Restoration Services

## WELL PURGE LOG

| <b>WELL ID:</b> MW-2   |         | <b>Site Name:</b> Transportation Terminals |                       |              |        |          |
|--|---------|--|-----------------------|--------------|--------|----------|
| <b>Site Address:</b> 15651 Worthley Dr., San Lorenzo   |         |  |                       |              |        |          |
| <b>Project No.:</b>  |         |  | <b>Date:</b> 10/29/12 |              |        |          |
| <b>Samplers Name:</b> B. Halsted   |         |  |                       |              |        |          |
| <b>Measuring method:</b> Sounder   |         |  |                       |              |        |          |
| <b>Purge Equipment:</b> Bailer   |         |  |                       |              |        |          |
| <b>Water in Well Box?</b> No   |         | <b>Inside diameter of well:</b> 2"         |                       |              |        |          |
| <b>Conversion factors (CF):</b> 2-inch well = 0.16 gallons/ft.,<br>4-inch well = 0.65 gallons/ft., 6-inch well = 1.47 gallons/ft., |         |  |                       |              |        |          |
| <b>Depth to water from top of casing:</b> 2.76   |         |  |                       |              |        |          |
| <b>Total Well Depth:</b> 10.4  |         |  |                       |              |        |          |
| <b>Well volume = ( Feet - Feet) X 0.16 = Gallons</b><br><b>{total well depth} - {depth to water} {CF}</b>                          |         |  |                       |              |        |          |
| <b>Water Volume in Well:</b> 7.64 ft / 1.22 gallons  |         |  |                       |              |        |          |
| <b>Well pumped/bailed dry?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |         |  |                       |              |        |          |
| <b>Lab Analysis:</b> 8015B   |         |  |                       |              |        |          |
| <b>Sample Containers:</b> (1) 1 liter amber  |         |  |                       |              |        |          |
| <b>Sample Equipment:</b> Disposable Bailer   |         |  |                       |              |        |          |
| FIELD MEASUREMENTS   |         |  |                       |              |        |          |
| Time   | Gallons | Temp. (F)                                  | pH                    | Conductivity | Other: | Comments |
| 9:20   | 1.5     | 68.9                                       | 6.81                  | 4.17         |        |          |
| 9:26   | 3.0     | 70.5                                       | 6.88                  | 4.05         |        |          |
| 9:35   | 4.5     | 72.0                                       | 6.93                  | 3.97         |        |          |
|  |         |  |                       |              |        |          |
|  |         |  |                       |              |        |          |
| <b>COMMENTS:</b>   |         |  |                       |              |        |          |



# Environmental Restoration Services

## WELL PURGE LOG

| <b>WELL ID:</b> MW-1   |         | <b>Site Name:</b> Transportation Terminals |                       |              |        |          |
|--|---------|--|-----------------------|--------------|--------|----------|
| <b>Site Address:</b> 15651 Worthley Dr., San Lorenzo   |         |  |                       |              |        |          |
| <b>Project No.:</b>  |         |  | <b>Date:</b> 10/29/12 |              |        |          |
| <b>Samplers Name:</b> B. Halsted   |         |  |                       |              |        |          |
| <b>Measuring method:</b> Sounder   |         |  |                       |              |        |          |
| <b>Purge Equipment:</b> Bailer   |         |  |                       |              |        |          |
| <b>Water in Well Box?</b> No   |         | <b>Inside diameter of well:</b> 2"         |                       |              |        |          |
| <b>Conversion factors (CF):</b> 2-inch well = 0.16 gallons/ft.,<br>4-inch well = 0.65 gallons/ft., 6-inch well = 1.47 gallons/ft., |         |  |                       |              |        |          |
| <b>Depth to water from top of casing:</b> 4.92   |         |  |                       |              |        |          |
| <b>Total Well Depth:</b> 9.6   |         |  |                       |              |        |          |
| <b>Well volume = ( Feet - Feet) X 0.16 = Gallons</b><br><b>{total well depth} - {depth to water} {CF}</b>                          |         |  |                       |              |        |          |
| <b>Water Volume in Well:</b> 4.68 ft / 0.75 gallons  |         |  |                       |              |        |          |
| <b>Well pumped/bailed dry?</b> ___Yes <u>x</u> No  |         |  |                       |              |        |          |
| <b>Lab Analysis:</b> 8015B   |         |  |                       |              |        |          |
| <b>Sample Containers:</b> (1) 1 liter amber  |         |  |                       |              |        |          |
| <b>Sample Equipment:</b> Disposable Bailer   |         |  |                       |              |        |          |
| FIELD MEASUREMENTS   |         |  |                       |              |        |          |
| Time   | Gallons | Temp.<br>(EF)                              | pH                    | Conductivity | Other: | Comments |
| 8:47   | 1       | 67.3                                       | 7.09                  | 8.45         |        |          |
| 9:04   | 2       | 67.8                                       | 7.12                  | 8.41         |        |          |
| 9:15   | 3       | 68.4                                       | 7.16                  | 8.37         |        |          |
|  |         |  |                       |              |        |          |
|  |         |  |                       |              |        |          |
| <b>COMMENTS:</b>   |         |  |                       |              |        |          |

# Environmental Restoration Services

## WELL PURGE LOG

| <b>WELL ID:</b> MW-3   |         | <b>Site Name:</b> Transportation Terminals |                       |              |        |          |
|--|---------|--|-----------------------|--------------|--------|----------|
| <b>Site Address:</b> 15651 Worthley Dr., San Lorenzo   |         |  |                       |              |        |          |
| <b>Project No.:</b>  |         |  | <b>Date:</b> 10/29/12 |              |        |          |
| <b>Samplers Name:</b> B. Halsted   |         |  |                       |              |        |          |
| <b>Measuring method:</b> Sounder   |         |  |                       |              |        |          |
| <b>Purge Equipment:</b> Bailer   |         |  |                       |              |        |          |
| <b>Water in Well Box?</b> No   |         | <b>Inside diameter of well:</b> 2"         |                       |              |        |          |
| <b>Conversion factors (CF):</b> 2-inch well = 0.16 gallons/ft.,<br>4-inch well = 0.65 gallons/ft., 6-inch well = 1.47 gallons/ft., |         |  |                       |              |        |          |
| <b>Depth to water from top of casing:</b> 5.01   |         |  |                       |              |        |          |
| <b>Total Well Depth:</b> 9.7   |         |  |                       |              |        |          |
| <b>Well volume = ( Feet - Feet) X 0.16 = Gallons</b><br><b>{total well depth} - {depth to water} {CF}</b>                          |         |  |                       |              |        |          |
| <b>Water Volume in Well:</b> 4.3 ft / 0.68 gallons   |         |  |                       |              |        |          |
| <b>Well pumped/bailed dry?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |         |  |                       |              |        |          |
| <b>Lab Analysis:</b> 8015B   |         |  |                       |              |        |          |
| <b>Sample Containers:</b> (1) 1 liter amber  |         |  |                       |              |        |          |
| <b>Sample Equipment:</b> Disposable Bailer   |         |  |                       |              |        |          |
| FIELD MEASUREMENTS   |         |  |                       |              |        |          |
| Time   | Gallons | Temp. (EF)                                 | pH                    | Conductivity | Other: | Comments |
| 10:02  | 1       | 71.0                                       | 7.02                  | 3.61         |        |          |
| 10:19  | 2       | 71.3                                       | 7.03                  | 3.59         |        |          |
| 10:45  | 3       | 71.2                                       | 7.05                  | 3.55         |        |          |
|  |         |  |                       |              |        |          |
|  |         |  |                       |              |        |          |
|  |         |  |                       |              |        |          |
| <b>COMMENTS:</b>   |         |  |                       |              |        |          |

**CHAIN-OF-CUSTODY  
ANALYTICAL RESULTS**

**Technical Report for**

**Environmental Restoration Services**

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

Accutest Job Number: C24569

Sampling Date: 10/29/12

**Report to:**

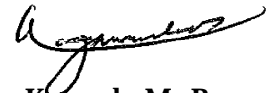
**Environmental Restoration Services**  
500 Santa Cruz Avenue  
Menlo Park, CA 94025  
envirest@aol.com

**ATTN: Ben Halsted**

**Total number of pages in report: 14**



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

**Client Service contact: Diane Theesen 408-588-0200**

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

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Test results relate only to samples analyzed.

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### Sample Summary

Environmental Restoration Services

Job No: C24569

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

| Sample Number | Collected Date | Time By  | Received | Matrix Code | Type         | Client Sample ID |
|---------------|----------------|----------|----------|-------------|--------------|------------------|
| C24569-1      | 10/29/12       | 09:16 BH | 11/01/12 | AQ          | Ground Water | MW-1             |
| C24569-2      | 10/29/12       | 09:41 BH | 11/01/12 | AQ          | Ground Water | MW-2             |
| C24569-3      | 10/29/12       | 10:50 BH | 11/01/12 | AQ          | Ground Water | MW-3             |

## Summary of Hits

**Job Number:** C24569  
**Account:** Environmental Restoration Services  
**Project:** T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA  
**Collected:** 10/29/12

| Lab Sample ID   | Client Sample ID | Result/<br>Qual | RL   | MDL   | Units | Method        |
|-----------------|------------------|-----------------|------|-------|-------|---------------|
| <b>C24569-1</b> | <b>MW-1</b>      |                 |      |       |       |               |
| TPH (C10-C28)   |                  | 0.107           | 0.10 | 0.025 | mg/l  | SW846 8015B M |
| <b>C24569-2</b> | <b>MW-2</b>      |                 |      |       |       |               |
| TPH (C10-C28)   |                  | 0.0983 J        | 0.10 | 0.025 | mg/l  | SW846 8015B M |
| <b>C24569-3</b> | <b>MW-3</b>      |                 |      |       |       |               |
| TPH (C10-C28)   |                  | 0.0673 J        | 0.10 | 0.025 | mg/l  | SW846 8015B M |

Sample Results

---

Report of Analysis

---



## Report of Analysis

3.1  
3

|   |  |                                |
|---|--|--------------------------------|
| <b>Client Sample ID:</b> MW-1   |  | <b>Date Sampled:</b> 10/29/12  |
| <b>Lab Sample ID:</b> C24569-1  |  | <b>Date Received:</b> 11/01/12 |
| <b>Matrix:</b> AQ - Ground Water  |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8015B M SW846 3510C  |  |                                |
| <b>Project:</b> T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA |  |                                |

|        | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | HH027765.D | 1  | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |
| Run #2 |            |    |          |    |           |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1000 ml        | 1.0 ml       |
| Run #2 |                |              |

### TPH Extractable w/ Silica Gel Cleanup

| CAS No. | Compound      | Result | RL   | MDL   | Units | Q |
|---------|---------------|--------|------|-------|-------|---|
|         | TPH (C10-C28) | 0.107  | 0.10 | 0.025 | mg/l  |   |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 630-01-3 | Hexacosane           | 81%    |        | 45-140% |

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  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

32  
3

|   |                                |
|---|--------------------------------|
| <b>Client Sample ID:</b> MW-2   | <b>Date Sampled:</b> 10/29/12  |
| <b>Lab Sample ID:</b> C24569-2  | <b>Date Received:</b> 11/01/12 |
| <b>Matrix:</b> AQ - Ground Water  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8015B M SW846 3510C  |                                |
| <b>Project:</b> T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA |                                |

|        | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | HH027766.D | 1  | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |
| Run #2 |            |    |          |    |           |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1000 ml        | 1.0 ml       |
| Run #2 |                |              |

### TPH Extractable w/ Silica Gel Cleanup

| CAS No. | Compound      | Result | RL   | MDL   | Units | Q |
|---------|---------------|--------|------|-------|-------|---|
|         | TPH (C10-C28) | 0.0983 | 0.10 | 0.025 | mg/l  | J |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 630-01-3 | Hexacosane           | 85%    |        | 45-140% |

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

|   |  |                                |
|---|--|--------------------------------|
| <b>Client Sample ID:</b> MW-3   |  | <b>Date Sampled:</b> 10/29/12  |
| <b>Lab Sample ID:</b> C24569-3  |  | <b>Date Received:</b> 11/01/12 |
| <b>Matrix:</b> AQ - Ground Water  |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8015B M SW846 3510C  |  |                                |
| <b>Project:</b> T06019710220-Trans Terminals-15651 Worthley Drive, San Lorenzo CA |  |                                |

| Run #  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | HH027767.D | 1  | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |
| Run #2 |            |    |          |    |           |            |                  |

| Run #  | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1000 ml        | 1.0 ml       |
| Run #2 |                |              |

### TPH Extractable w/ Silica Gel Cleanup

| CAS No. | Compound      | Result | RL   | MDL   | Units | Q |
|---------|---------------|--------|------|-------|-------|---|
|         | TPH (C10-C28) | 0.0673 | 0.10 | 0.025 | mg/l  | J |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 630-01-3 | Hexacosane           | 84%    |        | 45-140% |

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  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** C24569      **Client:** ERS - MENLO PARK      **Project:** TRANS TERM.  
**Date / Time Received:** 11/1/2012      **Delivery Method:** Client      **Airbill #s:**

**Cooler Temps (Initial/Adjusted):** 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 type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun(15.7)             |                                     |
| 3. Cooler media:             | No Ice                   |                                     |
| 4. No. Coolers:              | 0                        |                                     |

| <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 type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 2. Trip Blank listed on COC:        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 3. Samples preserved properly:      | <input type="checkbox"/> | <input type="checkbox"/> |                                     |            |
| 4. VOCs headspace free:             | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> | <input type="checkbox"/> |
| 2. Container labeling complete:         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree:  | <input checked="" type="checkbox"/> | <input 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"/> | <input type="checkbox"/> |
| 2. All containers accounted for:    | <input checked="" type="checkbox"/> | <input 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"/>            | <input type="checkbox"/> |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

4.1  
4

## GC Semi-volatiles

5

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** C24569  
**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 |
|-----------|-------------|----|----------|----|-----------|------------|------------------|
| OP6981-MB | HH027770.D1 |    | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |

The QC reported here applies to the following samples:

Method: SW846 8015B M

C24569-1, C24569-2, C24569-3

| CAS No. | Compound      | Result | RL   | MDL   | Units | Q |
|---------|---------------|--------|------|-------|-------|---|
|         | TPH (C10-C28) | ND     | 0.10 | 0.025 | mg/l  |   |

| CAS No.  | Surrogate Recoveries | Limits      |
|----------|----------------------|-------------|
| 630-01-3 | Hexacosane           | 84% 45-140% |



# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** C24569  
**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 |
|------------|-------------|----|----------|----|-----------|------------|------------------|
| OP6981-BS  | HH027768.D1 |    | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |
| OP6981-BSD | HH027769.D1 |    | 11/03/12 | JH | 11/03/12  | OP6981     | GHH850           |

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

C24569-1, C24569-2, C24569-3

| CAS No. | Compound      | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|---------------|------------|----------|-------|----------|-------|-----|----------------|
|         | TPH (C10-C28) | 1          | 0.787    | 79    | 0.804    | 80    | 2   | 45-140/30      |

| CAS No.  | Surrogate Recoveries | BSP | BSD | Limits  |
|----------|----------------------|-----|-----|---------|
| 630-01-3 | Hexacosane           | 86% | 83% | 45-140% |

\* = Outside of Control Limits.

5.2.1  
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