



**REMEDIATION PROGRESS REPORT
FIRST QUARTER 2010**

**DEFENSE FUEL SUPPORT POINT NORWALK
NORWALK, CALIFORNIA**

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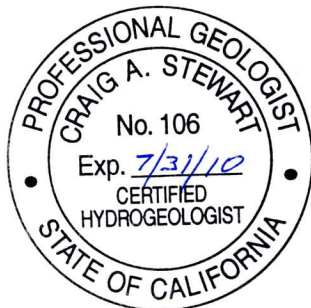
April 15, 2010
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**REMEDATION PROGRESS REPORT
FIRST QUARTER 2010
SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California**

1.0 INTRODUCTION

AMEC Geomatrix, Inc. (AMEC), has prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize remediation activities performed at the Defense Fuel Support Point, Norwalk (DFSP) located at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the first quarter 2010 reporting period. This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board – Los Angeles Region (RWQCB) in its letter dated October 25, 2006 (RWQCB, 2006) and in accordance with the Second Addendum to the Remedial Action Plan (Second Addendum) dated November 30, 2006 (Geomatrix Consultants, Inc. [Geomatrix], 2006). Implementation of the Second Addendum was approved by the RWQCB on April 2, 2007. Additional background information can be found in the Second Addendum and in previously submitted semi-annual groundwater monitoring reports for the site.

This report summarizes the remediation systems present at the site and describes implementation of the Second Addendum for the period January through March 2010 with documentation of the following tasks:

- remediation system enhancements and adjustments;
- operations and maintenance (O&M) of remediation systems performed by SFPP field personnel; and
- remediation system evaluation and optimization.

The remediation activities performed during January through March 2010 and the progress achieved through those activities are summarized in the following sections.

2.0 REMEDIATION SYSTEMS

SFPP currently operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater), groundwater extraction (GWE; extraction of groundwater only), and treatment of extracted soil vapors and groundwater to address two specific areas at and near the site: the south-central area and the

southeastern area. Operation of the West Side Barrier groundwater extraction system (WSB system) for remediation of the western off-site area was discontinued in August 2008 and the system has not operated since that time.

Remediation in the south-central and southeastern areas consists of SVE and TFE (GWE is also performed at two well locations in the south-central area). At several well locations, SVE is coupled with TFE (or GWE at two locations) in a process referred to as dual-phase extraction (DPE). SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system described below. The soil vapors are then pre-heated in a heat exchanger and treated in a catalytic oxidizer where volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the SVE and treatment system is conducted in accordance with Permit to Operate No. F13759 issued by the South Coast Air Quality Management District (SCAQMD).

The main groundwater treatment system handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically-operated top-loading total fluids pumps and bottom-loading groundwater pumps are piped to an oil/water separator. Free product, if any, from the oil/water separator is collected in a storage tank and recycled at an off-site location. Water from the oil/water separator is treated using liquid-phase granular activated carbon (GAC). Treated water is routed through an on-site 8,000-gallon effluent storage tank prior to discharge under a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0063509, CI No. 7497).

A summary of remediation wells in the south-central, southeastern, and West Side Barrier areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the first quarter 2010.

The TFE/GWE system was shut down on December 3, 2009 to re-evaluate selenium concentrations in groundwater from extraction wells. During the shutdown period, groundwater samples were collected from TFE and GWE wells and analyzed for selenium. Based on the results of these analyses, the following wells were selected to be pumping when the system was restarted in 2010: GMW-24, MW-SF-12, MW-SF-13, MW-SF-16, MW-O-2, GMW-O-11, GMW-O-23, GMW-O-15, and GMW-36. These wells were selected because their aggregate selenium concentration was expected to meet the discharge limits for selenium specified in the NPDES permit noted above (4.1 µg/L). During the shutdown period, additional repairs and enhancements were made to the TFE/GWE system including cleaning and repair

of TFE pumps, replacement of TFE pumps unable to be repaired, replacement of components of the groundwater manifold, and replacement of the conveyance piping in certain areas. A letter detailing conditions leading to the shutdown period, restart of the TFE/GWE system, and planned activities was prepared and sent to the City of Norwalk on March 11, 2010. A memorandum describing selenium management options reviewed for SFPP's groundwater remediation system, including background information, NPDES discharge options, and alternative discharge scenarios was prepared and submitted to the RWQCB on April 1, 2010.

3.0 OPERATIONS AND MAINTENANCE

Tasks performed for operation and maintenance of the remediation systems during the reporting period included:

- weekly maintenance and monitoring of the south-central and southeastern SVE, TFE/GWE, and soil vapor and groundwater treatment systems (collectively referred to as remediation systems);
- monthly checks of groundwater extraction pumps;
- measurements of individual well vapor concentrations;
- collection and analysis of system influent vapor and groundwater samples; and
- gauging of selected remediation wells.

During the reporting period, remediation system inspections were performed on a weekly basis and vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded on an approximately weekly basis. Remediation system operation activities for the first quarter 2010 are summarized in Tables 2 and 3. The remediation systems operated continuously during first quarter 2010 with the following exceptions.

- The SVE system shut down on January 6, 11, and 12, 2010 due to main breaker trips. The breaker was reset and the system was restarted on January 11 and January 12 following the first two shutdowns. After the third shutdown it was determined that the blower motor was damaged and tripping the breaker. The SVE system remained shutdown until a replacement motor could be installed on February 1, 2010 and additional testing was performed on February 2, 2010. The SVE system was restarted on February 2, 2010.
- The TFE/GWE system was restarted on February 4, 2010, after being shut down on December 3, 2009, following an evaluation of selenium concentrations in extraction wells and after completion of maintenance activities.
- The TFE/GWE system shut down on three dates between February 12 and February 19, 2010 due to high level alarms for the transfer tank. The dates of the

shutdowns could not be determined because the operating-hours meter was found to have failed. The bag filters were changed and the TFE/GWE system was restarted on February 16, 19, and 23, 2010, after each instance of shutdown. The operating-hours meter was replaced and the bag filter housing was cleaned on February 22, 2010.

- The TFE/GWE system shut down on March 4, 2010 due to a high level alarm for the transfer tank. The bag filters were changed and the TFE/GWE system was restarted on March 5, 2010.
- The TFE/GWE system and the SVE system both shut down on March 17, 2010 due to power loss. Power returned and the systems were both restarted on March 19, 2010.
- The SVE system shut down on March 19, March 22, and March 25, 2010 due to main breaker trips. The breaker was reset and the SVE system was restarted on March 22, March 23, and March 25, 2010, respectively. The main SVE breaker was replaced on March 25, 2010.

Overall, during first quarter 2010, the SVE system operated 56% of the time (61% excluding system shutdown due to power loss) while the TFE/GWE system operated 40% of the time (68% excluding planned shutdowns for system maintenance and power loss).

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the first quarter 2010 when the systems were in operation. During first quarter 2010, influent vapor samples were collected in February and March when both SVE and TFE/GWE systems were operating. Influent water samples were collected in February and March 2010 when the TFE/GWE system was operating. The vapor and water samples were delivered to Calscience Environmental Laboratories, Inc. (Calscience), a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program, for analysis. Calscience analyzed the vapor samples for the following:

- fixed gases (methane, carbon dioxide, oxygen and argon) using ASTM D-1946;
- total petroleum hydrocarbons quantified as gasoline (TPHg) using EPA Method TO-3; and
- VOCs using EPA Method TO-15.

Calscience analyzed the water samples for the following:

- TPHg and TPH characterized as fuel products (TPHfp) using EPA Method 8015(M); and
- VOCs using EPA Method 8260B.

Analytical results for the influent vapor and water samples are summarized in Tables 4 and 5, respectively. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

VOC concentrations in vapors extracted from individual SVE wells were measured in the field using a flame ionization detector (FID) or photoionization detector (PID) calibrated using 50 parts per million by volume (ppmv) of hexane. The individual well vapor readings results are summarized in Table 6. Depths to product and groundwater were measured to the nearest 0.01 foot from the top of the well casing using an interface probe in selected wells. The gauging results are summarized in Table 7.

4.0 SUMMARY OF REMEDIATION PROGRESS

Based on weekly monitoring of the influent vapor concentration, vapor extraction flow rate, and hours of operation, the total mass of VOCs removed by SVE was approximately 144 pounds during the first quarter of 2010, for a cumulative mass removed of approximately 15,775 pounds since implementing the Second Addendum system upgrades. The cumulative mass removed by SVE does not include the mass removed by biodegradation.

Approximately 933,223 gallons of groundwater were extracted during the first quarter 2010. This total includes approximately 739,990 gallons of water from the south-central area and 193,233 gallons of water from the southeastern area. The West Side Barrier groundwater extraction system was shut down in third quarter 2008 and remained shut down during first quarter 2010.

Groundwater extraction was discontinued in the West Side Barrier region during third quarter 2008 based on the reduced lateral extent and low concentrations of methyl tert-butyl ether (MTBE) and 1,2-dichloroethane (1,2-DCA) west of the site. Detected concentrations of MTBE and 1,2-DCA in wells west of the site have been below the conservative, site-specific, Risk-Based Corrective Action (RBCA) goals (Geomatrix, 1999) since August 2005. The lower (more conservative) RBCA goals for MTBE and 1,2-DCA are 40 micrograms per liter ($\mu\text{g/L}$) and 70 $\mu\text{g/L}$, respectively. 1,2-DCA and MTBE concentrations in the western area continue to be monitored and the West Side Barrier system will be restarted if necessary.

Removal of free product using TFE continued during first quarter 2010. Because the amount of free product removed by TFE was significantly less than the volume of groundwater extracted, free product was emulsified in the relatively larger volume of groundwater extracted and was not observed to accumulate in the product holding tank of the groundwater treatment system. Therefore, the amount of free product removed by TFE was not estimated.

Based on the TPHg results for influent water samples and total groundwater extracted, the mass of TPHg removed by TFE and GWE in the south-central and southeastern areas was approximately 58 pounds during first quarter 2010 for a cumulative mass removed from these areas of approximately 926 pounds since implementing system upgrades described in the Second Addendum. The mass of TPHg removed by TFE and GWE by a limited number of wells in two months was greater than one-third the mass of TPHg removed during 2009 due to higher concentrations of TPHg in extracted groundwater. TPHfp also was detected in the influent water samples. However, TPHfp results were not used to calculate mass removal for dissolved petroleum hydrocarbons because the ranges of hydrocarbons for TPHg and TPHfp overlap. Because the non-overlapping portion of the TPHfp range was not used in the mass removal calculation and the amount of free product removed by TFE was not estimated, the total mass of petroleum hydrocarbons removed by TFE may be underestimated.

5.0 SYSTEM EVALUATION AND OPTIMIZATION

While the SVE system was operating during first quarter 2010, VOC concentrations were measured in individual wells using an FID or PID on an approximately monthly basis, shown on Table 6. The operation status of the SVE wells at the end of the first quarter 2010 is also shown on Table 6. Because PID readings recorded on March 20, 2010 indicate VOC concentrations are close to or higher than 100 ppmv in several SVE wells, the SVE system will be operated until influent VOC concentrations reach low asymptotic levels before conducting another rebound test.

Groundwater monitoring in the West Side Barrier region during fourth quarter 2009 supports the continued shutdown of groundwater extraction in the region. 1,2-DCA and MTBE concentrations in the western area continue to be monitored and the West Side Barrier system will be restarted if necessary.

As shown in Table 7, groundwater elevations and product thicknesses in the south-central area have generally decreased since implementing the Second Addendum. During the first quarter 2010, free product was detected in five remediation wells. TFE will continue to be performed in areas with remaining free product. Selected remediation wells will continue to be monitored quarterly to assess remediation performance and remediation pump settings will be adjusted accordingly to optimize free product recovery and enhance hydraulic control of dissolved plumes.

The optimized systems currently consist of twenty wells operated for product recovery and hydraulic control in the south-central part of the site (including eighteen wells operated for total fluids extraction and two wells operated for groundwater extraction) and two wells equipped with total fluids extraction pumps operated for product recovery and hydraulic control in the

southeastern part of the site (Table 1). Occasionally, certain extraction wells are temporarily shut down due to elevated selenium concentrations detected in extracted groundwater, as described previously in this report and in the Remediation Progress for the fourth quarter 2009.

6.0 PLANNED SECOND QUARTER 2010 ACTIVITIES

During the second quarter 2010, AMEC plans to continue coordinating with SFPP to focus remedial efforts on the south-central and southeastern areas. Concentrations of 1,2 DCA and MTBE in the western area will continue to be monitored and the West Side Barrier system will be restarted if necessary. The TFE, GWE, and SVE systems for the south-central and southeastern areas will continue to operate. The TFE/GWE system will be monitored and the pumping configuration adjusted as necessary to maintain a concentration of selenium in the treatment system effluent below the NPDES permit discharge limits while additional extraction wells are brought back into service. Operation of the TFE system in the southeastern area will be monitored closely and adjustments will be made to improve fluid recovery. The SVE system for the south-central and southeastern areas will continue to operate. If SVE data indicate that VOC concentrations in the SVE system influent have decreased and reached low asymptotic levels, the SVE system will be shut down and rebound testing will commence soon thereafter. System inspections will continue on a weekly basis and system evaluation parameters will be collected as needed. The remediation activities and progress for second quarter 2010 will be described in the second quarter 2010 remediation progress report to be submitted by July 15, 2010.

7.0 REFERENCES

AMEC, Letter dated March 11, 2010 to Mr. Thomas E. Lynch, City of Norwalk; Re: Holifield Park and Second Semiannual Groundwater Monitoring Report for 2009, SFPP Norwalk, 15306 Norwalk Boulevard, Norwalk, California

AMEC, 2010, Remediation Progress Report, Fourth Quarter 2009 and Annual 2009 Summary, January 15.

California Regional Water Quality Control Board, Los Angeles Region, Letter dated October 25, 2006 to Mr. Kola Olowu, Defense Energy Support Center, Los Angeles, and Mr. Michael Pitta, Kinder Morgan Energy Partners; Conditional Approval of Revised Remedial Action Plan and Second Addendum to Remedial Action Plan for the Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk (SLIC No. 0286A, DOD No. 16638)

Geomatrix Consultants, Inc., 2006, Second Addendum to Remedial Action Plan, Defense Fuel Support Point Norwalk, Norwalk, California, November 30.

Geomatrix Consultants, Inc., 1999, Risk-Based Corrective Action, Western 1,2-DCA and MTBE Plumes, February.

Kinder Morgan Energy Partners, Letter dated April 1, 2010 to Mr. Paul Cho, California Regional Water Quality Control Board; Transmittal of Selenium Management Summary Report for the SFPP, L.P. Norwalk Station, 15306 Norwalk Boulevard, Norwalk, California

TABLES

**TABLE 1
REMEDIATION WELL CONSTRUCTION AND STATUS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (ft msl)	Well Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status at End of First Quarter 2010 ¹
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	ON
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	ON; OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON; OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	ON
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	ON; OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	ON; OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	OFF; ON
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON; ON
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF; OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	ON; OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON; ON
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF; OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	OFF; ON
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	OFF; OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	OFF; OFF
	VEW-1	--	--	--	SVE	ON
	VEW-2	--	--	--	SVE	ON
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	OFF; OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	OFF; OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON; ON
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	OFF
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON; OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	OFF; ON
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF
HW-2	--	--	--	SVE	ON	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	OFF; ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	OFF; ON
	GMW-36	4/11/1994	74.53	20 - 50	TFE	OFF
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	OFF

Notes

1. The well operations listed correspond to the well functions indicated in the previous column. Based on information provided by SFPP, L.P.

Abbreviations

-- = information not available
ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.
ft bgs = feet below ground surface
GWE = groundwater extraction
SVE = soil vapor extraction
TFE = total fluids extraction



**TABLE 2
VAPOR REMEDIATION SYSTEM OPERATION SUMMARY**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent TPHg Concentration (ppmv) ¹	Influent FID or PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum ("H ₂ O)	Mass Removed (pounds) ²
2007 Totals³	58,319	2,058	--	--	--	--	343
2008 Totals	64,233	5,915	--	--	--	--	4,428
2009 Totals	68,858	4,489	--	--	--	--	10,860
01/06/10	68,906.7	48.5	--	11	1,681	30	13
01/12/10	68,916.5	9.8	--	4	1,237	30	1
02/04/10	68,965.1	48.6	--	20	1,318	30	19
02/09/10	69,084.6	119.5	--	5	963	25	9
02/12/10	69,154.0	69.4	--	14	918	25	13
02/16/10	69,253.5	99.5	--	327	80	25	39
02/24/10	69,442.9	189.4	20 ⁴	38	47	15	5
03/02/10	69,582.1	139.2	--	33	41	10	3
03/09/10	69,749.6	167.5	--	51	41	30	5
03/16/10	69,916.2	166.6	--	26	396	30	25
03/23/10	69,934.7	18.5	18 ⁵	4	358	20	0
03/30/10	70,038.2	103.5	--	18	362	25	10
First Quarter 2010 Totals	70,038	1,180	--	--	--	--	144
Cumulative Mass Removed Since Implementation of RAP Upgrades⁶							15,775

Notes:

- The TPHg concentration reflects analytical results for vapor samples collected from the influent of the Vapor Remediation System. Refer to Table 4 for a summary of analytical results for influent vapor samples.
- The total mass removed based on influent FID or PID readings, hours of operation, and flow rate.
- The 2007 total includes only operation after upgrades were made to the South-Central system.
- This influent vapor sample was collected on February 26, 2010.
- This influent vapor sample was collected on March 26, 2010.
- Upgrades to the South-Central system are described in the Second Addendum to Remedial Action Plan.

Data reported based on information provided by SFPP, L.P.

Abbreviations:

- TPHg = total petroleum hydrocarbons as gasoline (C4-C12)
- ppmv = parts per million by volume
- FID = flame ionization detector
- PID = photo ionization detector
- scfm = standard cubic feet per minute
- H₂O = inches of water
- = not applicable

**TABLE 3
GROUNDWATER REMEDIATION SYSTEM OPERATION SUMMARY**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central Area (gallons)	Groundwater Removed from the Southeastern Area (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Influent TPHg Concentration (µg/L) ¹	TPHg Removed from the South-Central and Southeastern Areas (pounds) ²
2007 Totals³	2,080,762	529,411	630,877	--	395
2008 Totals	5,391,860	700,882	405,954⁴	--	311
2009 Totals	8,044,836	770,869	0	--	161
02/08/10 ⁵	87,327	8,159	0	8,000	6.37
02/12/10	74,192	18,214	0	8,000	6.16
02/16/10	2,475	1,153	0	8,000	0.24
02/19/10	6,387	6,932	0	8,000	0.89
02/22/10	39,881	11,084	0	8,000	3.40
02/23/10	24	0	0	8,000	0.00
02/24/10	13,159	3,300	0	8,000	1.10
02/26/10	35,653	10,173	0	8,000	3.06
03/02/10	72,817	21,958	0	8,000	6.32
03/03/10	15,966	5,160	0	8,000	1.41
03/05/10	10,797	3,370	0	8,000	0.94
03/09/10	70,304	22,642	0	7,000	5.42
03/12/10	54,209	17,436	0	7,000	4.18
03/16/10	67,329	21,520	0	7,000	5.18
03/18/10	18,973	5,109	0	7,000	1.41
03/19/10	9	0	0	7,000	0.00
03/22/10	8,378	1,888	0	7,000	0.60
03/23/10	20,986	4,285	0	7,000	1.47
03/26/10	64,286	13,076	0	7,000	4.51
03/29/10	66,022	12,974	0	7,000	4.61
03/30/10	10,816	4,800	0	7,000	0.91
First Quarter 2010 Totals	739,990	193,233	0	--	58
Cumulative TPHg Removed Since Implementation of RAP Upgrades⁶					926

Notes:

1. The TPHg concentration reflects analytical results for samples collected from the influent of the Total Fluids Extractions (TFE) system that extracts groundwater from the south-central and southeastern areas. Refer to Table 5 for a summary of analytical results for the groundwater samples. For a given period the most recent analytical result available is used to calculate TPHg removed.
2. The mass of TPHg removed (pounds) is based on concentrations of dissolved TPHg in the most recent TFE system influent samples and the volume of groundwater extracted by TFE. Total petroleum hydrocarbons characterized as fuel products (TPHfp) also were detected in the TFE system influent samples (see Table 5) but were not used in estimating the mass of petroleum hydrocarbons removed from groundwater.
3. The 2007 total includes only operation after upgrades were made to the South-Central system.
4. Groundwater removal in the West Side Barrier Area was discontinued in August, 2008.
5. The groundwater remediation system was restarted on February 4, 2010 following evaluation of selenium concentrations in the extraction wells.
6. Upgrades to the South-Central remediation system are described in the Second Addendum to Remedial Action Plan.

Data reported based on information provided by SFPP, L.P.

Abbreviations:

TPHg = total petroleum hydrocarbons as gasoline (C4-C12).
µg/L = micrograms per liter

**TABLE 4
EXTRACTED VAPOR ANALYTICAL RESULTS¹**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Date Sampled	Total Fluids Extraction System Status	ASTM D-1946			EPA TO-3	EPA TO-15 (VOCs) ²				
		Methane (%v) ³	Carbon Dioxide (%v)	Oxygen & Argon (%v)	TPHg ⁴ (ppmv) ⁵	Benzene (ppbv) ⁶	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE ⁷ (ppbv)
8/3/2007	ON	<0.5 ⁸	<0.5	22.0	63	650	220	1,100	1,420	55
9/5/2007	OFF	<0.5	<0.5	22.0	9	32	48	140	320	18
10/2/2007	ON	<0.5	<0.5	21.9	27	250	75	430	610	20
11/2/2007	ON	<0.5	<0.5	22.1	5	40	10	74	95	7
2/1/2008	ON	<0.5	<0.5	21.8	100	830	260	2,200	1,850	<50
3/4/2008	ON	<0.5	<0.5	21.7	50	380	98	570	1,250	36
4/8/2008	OFF	<0.5	<0.5	22.2	69	290	110	480	1,040	41
5/23/2008	OFF	<0.5	<0.5	21.8	14	180	24	190	280	23
6/3/2008	OFF	<0.5	<0.5	21.7	30	380	42	400	330	70
7/2/2008	ON	<0.5	<0.5	21.4	49	32	6	34	45	10
8/19/2008	ON	<0.5	1.7	20.8	50	390	63	230	450	40
9/5/2008	ON	<0.5	2.0	21.2	22	130	39	130	340	42
10/7/2008	ON	<0.5	1.43	21.4	10	41	15	54	181	6.8
11/4/2008	ON	<0.5	2.08	21.1	7.5	31	47	190	242	<2.0
3/6/2009	ON	<0.5	<0.5	22.0	83	1,900	180	990	770	240
4/17/2009	ON	<0.5	<0.5	22.2	3.1	140	8	37	68	26
5/29/2009	ON	<0.5	1.08	21.0	130	1,700	640	3,700	3,100	100
8/18/2009	ON	<0.5	0.78	21.7	28	380	37	290	310	33
8/25/2009	ON	<0.5	0.87	20.6	37	500	44	320	293	20
9/18/2009	ON	<0.5	0.37	21.6	11	75	11	39	107	3
10/29/2009	ON	<0.5	1.80	18.2	77	350	45	250	440	4
11/25/2009	ON	<0.5	<0.5	21.1	14	110	12	110	164	11
12/15/2009	OFF	<0.5	<0.5	21.7	7	28	3	20	47	<3.2
2/26/2010	ON	<0.5	0.4	21.2	20	300	18	220	260	21
3/26/2010	ON	<0.5	1.0	20.2	18	380	20	110	90	5

Notes:

1. Influent vapor samples were collected from the manifold conveying soil vapors extracted from the south-central and southeastern areas.
2. Other detected volatile organic compounds (VOCs) are included in the laboratory analytical reports in Appendix A.

Abbreviations:

%v = percent by volume
 TPHg = total petroleum hydrocarbons as gasoline (C4-C12)
 ppmv = parts per million by volume
 ppbv = parts per billion by volume
 MTBE = methyl tert-butyl ether
 <0.5 = not detected at or above the laboratory reporting limit shown

**TABLE 5
EXTRACTED GROUNDWATER ANALYTICAL RESULTS¹**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Date Sampled	EPA 8015M		EPA 8260B Volatile Organic Compounds (VOCs) ²				
	TPHg (µg/L)	TPHfp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
7/11/2007	--	--	4,800	130	890	1,040	690
8/7/2007	14,000	11,000	5,400	140	1,100	770	540
9/25/2007	12,000	30,000	3,400	310	1,600	2,390	540
10/16/2007	8,900	8,400	3,400	94	520	660	390
11/2/2007	44,000	6,500	3,200	130	860	1,160	570
11/30/2007	6,000	5,200	1,800	48	170	490	450
12/21/2007	7,200	4,200	2,100	41	170	430	750
1/4/2008	4,300	7,200	3,300	49	300	540	620
1/18/2008	11,000	2,200	3,600	140	650	850	620
2/1/2008	8,700	5,700	3,600	100	440	930	560
3/4/2008	7,200	4,900	3,900	120	510	770	620
4/8/2008	8,100	10,000	2,800	96	280	580	640
5/6/2008	5,300	2,800	2,900	76	190	328	430
6/3/2008	8,400	6,800	3,700	110	450	480	320
7/2/2008	9,200	4,300 ³	4,500	75	620	650	400
8/19/2008	4,000	6,600	2,600	57	76	215	450
9/5/2008	160	<500	<12	<25	<25	<25	<25
10/7/2008	<100	<500	0.36 J	<1.0	<1.0	1.59	1.7
11/4/2008	12,000	660,000	2,500	140	220	760	160
12/4/2008	1,300	1,500	600	8.2	28	73	130
1/6/2009	1,500	980	560	23	41	110	320
3/6/2009	2,500	1,500	1,100	33	51	114	65
4/7/2009	3,100	6,900	1,100	36	230	207	210
5/13/2009	690	1,500	120	3.2	14	60	24
6/12/2009	150	<500	<0.50	<1.0	<1.0	0.71 J	44
7/10/2009	4,500	560	1,500	41	68	175	150
8/4/2009	2,000	1,000	1,200	16	18	64	100
9/1/2009	4,800	3,500	380	45	25	328	5.4 J
10/6/2009	3,900	4,600	3,200	21	15	35	82
10/27/2009	1,000	<500	520	4	15	10	180
11/3/2009	120	<500	2	0.55 J	0.61 J	3	40
11/25/2009	5,700	4,000	3,100	26	13	48	88
2/16/2010	8,000	5,900	4,700	110	1,300	800	1,800
3/9/2010	7,000	5,900	6,600	110	460	550	410

Notes:

- Influent samples were collected from the manifold conveying groundwater extracted from the south-central and southeastern areas.
- Other detected VOCs are included in the laboratory analytical reports in Appendix A.
- TPHfp result from influent extracted groundwater sample collected on July 10, 2008.

Abbreviations:

TPHg = total petroleum hydrocarbons as gasoline (C4-C12)

µg/L = micrograms per liter

TPHfp = total petroleum hydrocarbons as fuel products (C7-C28)

MTBE = methyl tert-butyl ether

-- = not analyzed

<500 = Not detected at or above the laboratory reporting limit (RL) shown

J = Analyte was detected above the laboratory method detection limit and below the laboratory RL

**TABLE 6
REMEDIATION WELL VAPOR CONCENTRATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Remediation Area	Remediation Well ID	Remediation Well Function ¹	Well Operation Status at End of First Quarter 2010 ²	2/12/2010 (ppmv as Hexane)	3/12/2010 (ppmv as Hexane)	3/30/2010 (ppmv as Hexane)
South-Central	MW-SF-1	SVE	ON	21.2	15.8	170.9
	MW-SF-2	SVE; TFE	ON; OFF	17.1	169.4	67.9
	MW-SF-3	SVE; TFE	ON; OFF	57.8	41.8	236.8
	MW-SF-4	SVE	OFF	313.6	34.4	17.2
	MW-SF-5	SVE	ON	11.0	23.4	208.8
	MW-SF-6	SVE; TFE	ON; OFF	15.1	141.8	235.9
	MW-SF-9	SVE	OFF	3.9	2.7	3.3
	MW-SF-10	SVE	OFF	6.9	9.2	4.6
	MW-SF-11	SVE; TFE	ON; OFF	2.0	0.1	51.8
	MW-SF-12	SVE; TFE	OFF; ON	188.6	226.7	28.5
	MW-SF-13	SVE; TFE	ON; ON	24.5	35.4	54.4
	MW-SF-14	SVE; TFE	OFF; OFF	20.8	88.4	24.0
	MW-SF-15	SVE; TFE	ON; OFF	714.8	199.2	343.5
	MW-SF-16	SVE; TFE	ON; ON	162.4	328.7	412.2
	GMW-9	SVE; TFE	OFF; OFF	17.2	88.5	5.1
	GMW-10	SVE	ON	41.9	35.1	226.0
	GMW-22	SVE; TFE	OFF; OFF	17.2	88.5	5.1
	GMW-24	SVE; TFE	OFF; ON	1.5	2.4	2.6
	GMW-25	SVE; GWE	OFF; OFF	1.5	2.4	2.6
	GWR-3	SVE; GWE	OFF; OFF	9.8	0.4	5.7
	VEW-1	SVE	ON	41.9	6.9	187.0
	VEW-2	SVE	ON	395.6		164.0
	MW-O-1	SVE; TFE	OFF; OFF	7.4	30.6	12.1
	MW-O-2	SVE; TFE	OFF; OFF	4.8	0.5	6.9
	GMW-O-11	SVE; TFE	ON; ON	3.4	9.7	224.9
	GMW-O-12	SVE	OFF	7.9	8.4	24.0
	GMW-O-20	SVE; TFE	ON; OFF	31.2	50.2	179.3
GMW-O-23	SVE; TFE	OFF; ON	7.9	3.7	5.6	
MW-18 (MID)	SVE	OFF	5.8	24.7	7.1	
HW-2	SVE	ON	30.5	86.4	96.7	
Southeastern	GMW-O-15	SVE; TFE	OFF; ON	9.0	36.3	12.6
	GMW-O-18	SVE; TFE	OFF; ON	9.0	36.3	12.6

Notes:

1. The well operations listed correspond to the well functions indicated in the previous column.
2. Vapor readings measured in the field with a Photoionization Detector calibrated using 50 ppmv of hexane.

Data reported based on information provided by SFPP, L.P.

Abbreviations:

SVE = Soil Vapor Extraction
TFE = Total Fluids Extraction
GWE - Groundwater Extractions
ppmv = parts per million by volume
NM = not measured



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-1	8/28/2007	74.77	19.70	---	---	55.07	Stantec
	2/19/2008	74.77	25.20	---	---	49.57	Stantec
	3/21/2008	74.77	25.23	---	---	49.54	Envent
	4/14/2008	74.77	25.12	---	---	49.65	Stantec
	10/13/2008	74.77	25.84	---	---	48.93	Stantec
	4/20/2009	74.77	26.18	---	---	48.59	Blaine Tech
	10/19/2009	74.77	27.52	---	---	47.25	Blaine Tech
GMW-9	8/8/2008	74.44	28.01	27.96	0.05	---	Envent
	10/16/2008	74.44	28.36	28.35	0.01	---	Envent
	12/17/2008	74.44	27.61	---	---	46.83	Envent
	1/15/2009	74.44	28.91	---	---	45.53	Envent
	3/27/2009	74.44	29.04	---	---	45.40	Envent
	4/21/2009	74.44	28.16	---	---	46.28	Envent
	7/21/2009	74.44	28.31	---	---	46.13	Envent
GMW-22	11/12/2007	74.17	26.45	25.91	0.54	---	Stantec
	8/12/2008	74.17	26.70	---	---	47.47	Envent
	10/31/2008	74.17	28.25	27.04	1.21	---	Envent
	11/4/2008	74.17	26.97	---	---	47.20	Envent
	12/17/2008	74.17	26.65	---	---	47.52	Envent
	1/15/2009	74.17	27.18	---	---	46.99	Envent
	3/27/2009	74.17	27.86	---	---	46.31	Envent
	4/21/2009	74.17	27.30	27.20	0.10	---	Envent
	7/21/2009	74.17	27.70	---	---	46.47	Envent
	11/6/2009	74.17	28.12	---	---	46.05	Kinder Morgan
GMW-23	11/12/2007	74.85	25.41	---	---	49.44	Stantec
	12/28/2007	74.85	26.20	---	---	48.65	Geomatrix
	4/14/2008	74.85	25.62	---	---	49.23	Stantec
	10/13/2008	74.85	26.21	---	---	48.64	Stantec
	4/20/2009	74.85	26.29	---	---	48.56	Blaine Tech
	7/21/2009	74.85	27.33	---	---	47.52	Envent
	10/19/2009	74.85	27.51	---	---	47.34	Blaine Tech
GMW-24	11/12/2007	74.04	27.50	27.46	0.04	---	Stantec
	8/19/2008	74.04	29.34	28.24	1.10	---	Envent
	10/17/2008	74.04	30.88	29.90	0.98	---	Envent
	10/21/2008	74.04	29.64	28.30	1.34	---	Envent
	12/18/2008	74.04	29.04	---	---	45.00	Envent
	1/15/2009	74.04	30.56	29.80	0.76	---	Envent
	3/20/2009	74.04	31.28	---	---	42.76	Envent
	3/27/2009	74.04	30.45	---	---	43.59	Envent
	4/21/2009	74.04	29.91	---	---	44.13	Envent
	7/21/2009	74.04	32.78	---	---	41.26	Envent
	2/4/2010	74.04	29.67	29.40	0.27	---	Kinder Morgan
GMW-25	11/12/2007	74.29	27.30	27.25	0.05	---	Stantec
	8/12/2008	74.29	27.81	---	---	46.48	Envent
	10/17/2008	74.29	28.26	---	---	46.03	Envent
	12/18/2008	74.29	29.01	---	---	45.28	Envent
	1/15/2009	74.29	28.62	---	---	45.67	Envent
	3/24/2009	74.29	28.79	---	---	45.50	Envent
	4/21/2009	74.29	28.35	---	---	45.94	Envent
	7/21/2009	74.29	29.80	---	---	44.49	Envent
	10/19/2009	74.29	30.28	---	---	44.01	Blaine Tech



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-27	11/12/2007	74.41	24.90	---	---	49.51	Stantec
	12/21/2007	74.41	25.59	---	---	48.82	Geomatrix
	4/14/2008	74.41	25.21	---	---	49.20	Stantec
	8/11/2008	74.41	29.68	---	---	44.73	Stantec
	10/13/2008	74.41	25.81	---	---	48.60	Stantec
	11/21/2008	74.41	26.20	---	---	48.21	Stantec
	4/20/2009	74.41	26.04	---	---	48.37	Blaine Tech
	10/19/2009	74.41	27.39	---	---	47.02	Blaine Tech
GMW-30	8/21/2007	74.91	23.81	---	---	51.10	Geomatrix
	8/28/2007	74.91	24.65	---	---	50.26	Stantec
	9/11/2007	74.91	24.63	---	---	50.28	Geomatrix
	10/5/2007	74.91	25.13	---	---	49.78	Geomatrix
	11/2/2007	74.91	27.45	---	---	47.46	Geomatrix
	11/12/2007	74.91	25.38	---	---	49.53	Stantec
	4/14/2008	74.91	25.65	---	---	49.26	Stantec
	11/4/2008	74.91	26.52	---	---	48.39	Stantec
	4/20/2009	74.91	26.30	---	---	48.61	Blaine Tech
	10/19/2009	74.91	27.40	---	---	47.51	Blaine Tech
GMW-36	8/28/2007	74.53	24.31	---	---	50.22	Stantec
	11/12/2007	74.53	24.86	24.85	0.01	---	Stantec
	2/19/2008	74.53	25.50	---	---	49.27	Stantec
	4/14/2008	74.53	24.61	---	---	50.16	Stantec
	8/8/2008	74.53	26.20	26.14	0.06	---	Envent
	10/16/2008	74.53	26.11	26.09	0.02	---	Envent
	12/18/2008	74.53	28.70	28.65	0.05	---	Envent
	1/15/2009	74.53	27.73	27.45	0.28	---	Envent
	2/20/2009	74.53	26.39	26.35	0.04	---	Envent
	2/23/2009	74.53	26.13	25.80	0.33	---	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	---	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	7/21/2009	74.53	26.03	---	---	48.50	Envent
	7/22/2009	74.53	25.90	---	---	48.63	Blaine Tech
10/19/2009	74.53	26.56	26.45	0.11	---	Blaine Tech	
2/4/2010	74.53	26.93	26.80	0.13	---	Kinder Morgan	
3/15/2010	74.53	26.80	---	---	47.73	Blaine Tech	
GMW-O-11	11/12/2007	74.17	24.40	---	---	49.77	Stantec
	8/15/2008	74.17	29.30	---	---	44.87	Envent
	10/17/2008	74.17	24.45	---	---	49.72	Envent
	12/19/2008	74.17	24.85	---	---	49.32	Envent
	1/15/2009	74.17	26.87	24.38	2.49	---	Envent
	2/24/2009	74.17	24.31	24.21	0.10	---	Envent
	3/27/2009	74.17	31.08	---	---	43.09	Envent
	4/21/2009	74.17	25.36	25.34	0.02	---	Envent
	7/21/2009	74.17	26.18	---	---	47.99	Envent
	11/6/2009	74.17	26.33	26.18	0.15	---	Kinder Morgan
GMW-O-12	11/12/2007	73.49	23.13	---	---	50.36	Stantec
	4/14/2008	73.49	23.36	---	---	50.13	Stantec
	10/13/2008	73.49	24.20	---	---	49.29	Stantec
	4/20/2009	73.49	24.21	---	---	49.28	Blaine Tech
	10/19/2009	73.49	25.08	---	---	48.41	Blaine Tech



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-O-15	11/12/2007	74.23	23.95	23.85	0.10	---	Stantec
	4/14/2008	74.23	23.64	---	---	50.59	Stantec
	8/8/2008	74.23	24.60	---	---	50.59	Envent
	8/11/2008	74.23	24.40	24.34	0.06	---	Stantec
	10/16/2008	74.23	24.53	---	---	49.70	Envent
	12/18/2008	74.23	24.86	---	---	49.37	Envent
	1/2/2009	74.23	24.82	---	---	49.41	Envent
	1/15/2009	74.23	26.01	---	---	48.22	Envent
	2/20/2009	74.23	24.80	---	---	49.43	Envent
	2/23/2009	74.23	24.76	24.74	0.02	---	Blaine Tech
	3/24/2009	74.23	25.55	---	---	48.68	Envent
	4/20/2009	74.23	24.66	24.61	0.05	---	Blaine Tech
	7/17/2009	74.23	25.01	---	---	49.22	Envent
	7/22/2009	74.23	24.99	24.94	0.05	---	Blaine Tech
	10/19/2009	74.23	25.55	25.43	0.12	---	Blaine Tech
2/4/2010	74.23	25.50	25.48	0.02	---	Kinder Morgan	
GMW-O-20	8/15/2008	73.32	25.90	---	---	47.42	Envent
	10/17/2008	73.32	25.82	---	---	47.50	Envent
	12/19/2008	73.32	27.15	---	---	46.17	Envent
	1/15/2009	73.32	26.53	26.09	0.44	---	Envent
	2/24/2009	73.32	27.85	---	---	45.47	Envent
	3/20/2009	73.32	28.81	---	---	44.51	Envent
	3/27/2009	73.32	27.84	---	---	45.48	Envent
	4/21/2009	73.32	28.70	---	---	44.62	Envent
	7/21/2009	73.32	24.10	---	---	49.22	Envent
	11/9/2009	73.32	25.60	25.40	0.20	---	Kinder Morgan
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix
	10/17/2008	71.43	26.00	---	---	45.43	Envent
	12/19/2008	71.43	24.82	---	---	46.61	Envent
	3/27/2009	71.43	26.41	---	---	45.02	Envent
	7/21/2009	71.43	24.88	---	---	46.55	Envent
	11/9/2009	71.43	25.02	---	---	46.41	Kinder Morgan
GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30	Geomatrix
	8/21/2007	73.63	23.31	---	---	50.32	Geomatrix
	8/28/2007	73.63	23.00	---	---	50.63	Stantec
	9/11/2007	73.63	23.42	---	---	50.21	Geomatrix
	10/5/2007	73.63	27.79	---	---	45.84	Geomatrix
	11/2/2007	73.63	25.15	---	---	48.48	Geomatrix
	11/13/2007	73.63	23.90	---	---	49.73	Stantec
	12/28/2007	73.63	24.91	---	---	48.72	Geomatrix
	8/15/2008	73.63	26.28	---	---	47.35	Envent
	10/17/2008	73.63	27.16	---	---	46.47	Envent
	12/19/2008	73.63	27.60	---	---	46.03	Envent
	1/15/2009	73.63	27.54	---	---	46.09	Envent
	2/24/2009	73.63	26.19	---	---	47.44	Envent
	3/27/2009	73.63	23.74	---	---	49.89	Envent
	4/21/2009	73.63	27.30	---	---	46.33	Envent
11/9/2009	73.63	27.50	---	---	46.13	Kinder Morgan	
GWR-1	11/12/2007	73.65	24.05	---	---	49.60	Stantec
	12/21/2007	73.65	24.91	---	---	48.74	Geomatrix
	4/14/2008	73.65	24.40	---	---	49.25	Stantec
	10/13/2008	73.65	25.06	---	---	48.59	Stantec
	4/20/2009	77.40	28.78	---	---	48.62	Blaine Tech
	10/19/2009	77.40	29.98	---	---	47.42	Blaine Tech



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GWR-3	11/12/2007	74.93	27.90	---	---	47.03	Stantec
	10/17/2008	74.93	29.88	---	---	45.05	Envent
	12/17/2008	74.93	19.71	---	---	55.22	Envent
	1/15/2009	74.93	29.27	29.26	0.26	---	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
MW-O-1	8/14/2007	75.48	25.31	23.78	1.53	---	Geomatrix
	8/21/2007	75.48	23.84	23.58	0.26	---	Geomatrix
	8/28/2007	75.48	23.07	23.06	0.01	---	Stantec
	9/11/2007	75.48	23.86	23.48	0.38	---	Geomatrix
	10/5/2007	75.48	24.67	---	---	50.81	Geomatrix
	11/2/2007	75.48	24.25	---	---	51.23	Geomatrix
	11/12/2007	75.48	24.27	24.25	0.02	---	Stantec
	12/28/2007	75.48	25.54	25.51	0.03	---	Geomatrix
	8/19/2008	75.48	25.18	25.13	0.05	---	Envent
	10/17/2008	75.48	25.30	---	---	50.18	Envent
	12/19/2008	75.48	26.31	---	---	49.17	Envent
	1/15/2009	75.48	25.84	---	---	49.64	Envent
	4/21/2009	75.48	25.41	---	---	50.07	Envent
	10/19/2009	75.48	26.30	---	---	49.18	Blaine Tech
MW-O-2	11/12/2007	71.90	23.10	---	---	48.80	Stantec
	10/17/2008	71.90	24.85	---	---	47.05	Envent
	12/19/2008	71.90	25.51	---	---	46.39	Envent
	3/27/2009	71.90	25.22	---	---	46.68	Envent
	7/21/2009	71.90	23.63	---	---	48.27	Envent
	11/9/2009	71.90	25.39	---	---	46.51	Kinder Morgan
MW-SF-1	8/28/2007	78.93	27.94	---	---	50.99	Stantec
	11/12/2007	78.93	28.76	---	---	50.17	Stantec
	2/19/2008	78.93	29.50	---	---	49.43	Stantec
	4/14/2008	78.93	29.16	---	---	49.77	Stantec
	8/11/2008	78.93	29.75	---	---	49.18	Stantec
	10/13/2008	78.93	29.86	---	---	49.07	Stantec
	2/23/2009	78.93	30.00	---	---	48.93	Blaine Tech
	4/20/2009	78.93	29.97	---	---	48.96	Blaine Tech
	7/22/2009	78.93	30.98	---	---	47.95	Blaine Tech
	10/19/2009	78.93	31.11	---	---	47.82	Blaine Tech
3/15/2010	78.93	31.74	---	---	47.19	Blaine Tech	
MW-SF-2	11/12/2007	78.53	29.18	28.71	0.47	---	Stantec
	8/12/2008	78.53	31.11	---	---	47.42	Envent
	10/17/2008	78.53	31.55	31.50	0.05	---	Envent
	12/18/2008	78.53	32.75	32.55	0.20	---	Envent
	1/15/2009	78.53	30.84	30.57	0.27	---	Envent
	3/24/2009	78.53	28.85	---	---	49.68	Envent
	4/21/2009	78.53	29.98	---	---	48.55	Envent
	7/21/2009	78.53	29.85	---	---	48.68	Envent
12/9/2009	78.53	31.45	---	---	47.08	Kinder Morgan	
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---	Stantec
	8/12/2008	78.12	30.30	29.05	1.25	---	Envent
	10/17/2008	78.12	29.45	---	---	48.67	Envent
	12/18/2008	78.12	31.08	30.82	0.26	---	Envent
	1/15/2009	78.12	29.96	29.94	0.02	---	Envent
	3/20/2009	78.12	31.10	---	---	47.02	Envent
	3/24/2009	78.12	27.82	---	---	50.30	Envent
	4/21/2009	78.12	29.51	29.50	0.01	---	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	11/6/2009	78.12	30.37	30.35	0.02	---	Kinder Morgan
12/9/2009	78.12	30.53	---	---	48.05	Kinder Morgan	



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
MW-SF-4	8/14/2007	79.38	30.34	28.38	1.96	---	Geomatrix
	8/28/2007	79.38	29.95	28.30	1.65	---	Stantec
	9/11/2007	79.38	29.98	28.43	1.55	---	Geomatrix
	10/5/2007	79.38	30.68	28.85	1.83	---	Geomatrix
	10/12/2007	79.38	30.27	29.96	0.31	---	Geomatrix
	10/19/2007	79.38	30.28	---	---	49.10	Geomatrix
	10/26/2007	79.38	30.52	---	---	48.86	Geomatrix
	11/2/2007	79.38	30.68	---	---	48.70	Geomatrix
	11/12/2007	79.38	29.70	29.69	0.01	---	Stantec
	12/21/2007	79.38	30.69	---	---	48.69	Geomatrix
	2/19/2008	79.38	30.22	---	---	49.16	Stantec
	3/21/2008	79.38	30.07	---	---	49.31	Envent
	4/14/2008	79.38	29.95	---	---	49.43	Stantec
	8/8/2008	79.38	30.51	---	---	48.87	Envent
	8/11/2008	79.38	30.57	---	---	48.81	Stantec
	10/16/2008	79.38	30.77	---	---	48.61	Envent
1/15/2009	79.38	31.14	---	---	48.24	Envent	
2/20/2009	79.38	30.84	---	---	48.54	Envent	
3/15/2010	79.38	31.95	31.91	0.04	---	Blaine Tech	
MW-SF-4	2/23/2009	79.38	30.96	---	---	48.42	Blaine Tech
	4/20/2009	79.38	30.02	29.94	0.08	---	Blaine Tech
	4/28/2009	79.38	30.78	---	---	48.60	Envent
MW-SF-4	7/17/2009	79.38	31.85	---	---	47.53	Envent
	7/22/2009	79.38	31.65	31.61	0.04	---	Blaine Tech
	10/19/2009	79.38	31.93	31.90	0.03	---	Blaine Tech
MW-SF-5	8/21/2007	79.74	28.36	---	---	51.38	Geomatrix
	8/28/2007	79.74	28.84	---	---	50.90	Stantec
	10/5/2007	79.74	29.50	---	---	50.24	Geomatrix
	11/2/2007	79.74	31.50	---	---	48.24	Geomatrix
	11/12/2007	79.74	29.93	---	---	49.81	Stantec
	12/21/2007	79.74	31.00	---	---	48.74	Geomatrix
	4/14/2008	79.74	30.20	---	---	49.54	Stantec
	8/11/2008	79.74	30.85	---	---	48.89	Stantec
	10/13/2008	79.74	30.93	---	---	48.81	Stantec
	4/20/2009	79.74	30.99	---	---	48.75	Blaine Tech
MW-SF-6	11/12/2007	76.80	27.14	---	---	49.66	Stantec
	8/12/2008	76.80	29.82	---	---	46.98	Envent
	10/17/2008	76.80	29.75	---	---	47.05	Envent
	12/18/2008	76.80	30.73	---	---	46.07	Envent
	1/15/2009	76.80	31.35	---	---	45.45	Envent
	3/24/2009	76.80	30.50	---	---	46.30	Envent
	4/21/2009	76.80	28.45	---	---	48.35	Envent
	7/21/2009	76.80	27.22	---	---	49.58	Envent
	11/6/2009	76.80	29.10	---	---	47.70	Kinder Morgan
	12/9/2009	76.80	31.35	---	---	45.45	Kinder Morgan
MW-SF-9	8/14/2007	74.10	28.73	28.61	0.12	---	Geomatrix
	8/28/2007	74.10	20.55	---	---	53.55	Stantec
	8/21/2007	74.10	26.55	---	---	47.55	Geomatrix
	9/11/2007	74.10	19.40	---	---	54.70	Geomatrix
	10/5/2007	74.10	26.84	---	---	47.26	Geomatrix
	11/2/2007	74.10	22.76	---	---	51.34	Geomatrix
	11/12/2007	74.10	22.96	---	---	51.14	Stantec
	12/21/2007	74.10	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.10	24.23	---	---	49.87	Stantec
	10/13/2008	74.10	24.83	---	---	49.27	Stantec
	4/20/2009	74.10	25.27	---	---	48.83	Blaine Tech
	10/19/2009	74.10	26.45	---	---	47.65	Blaine Tech



**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
MW-SF-11	8/14/2007	78.56	28.58	28.30	0.28	---	Geomatrix
	8/21/2007	78.56	28.76	28.63	0.13	---	Geomatrix
	8/28/2007	78.56	28.22	---	---	50.34	Stantec
	9/11/2007	78.56	26.90	---	---	51.66	Geomatrix
	10/5/2007	78.56	28.43	---	---	50.13	Geomatrix
	11/2/2007	78.56	29.48	29.38	0.10	---	Geomatrix
	11/12/2007	78.56	29.03	---	---	49.53	Stantec
	8/15/2008	78.56	30.13	---	---	48.43	Envent
	10/17/2008	78.56	30.50	---	---	48.06	Envent
	12/18/2008	78.56	29.92	---	---	48.64	Envent
	1/15/2009	78.56	30.32	---	---	48.24	Envent
	3/24/2009	78.56	31.05	---	---	47.51	Envent
	4/21/2009	78.56	30.03	---	---	48.53	Envent
7/21/2009	78.56	30.89	---	---	47.67	Envent	
11/9/2009	78.56	31.00	---	---	47.56	Kinder Morgan	
MW-SF-12	8/14/2007	78.07	27.76	---	---	50.31	Geomatrix
	8/21/2007	78.07	27.43	---	---	50.64	Geomatrix
	8/28/2007	78.07	27.58	---	---	50.49	Stantec
	9/11/2007	78.07	27.73	---	---	50.34	Geomatrix
	10/5/2007	78.07	28.06	---	---	50.01	Geomatrix
	11/2/2007	78.07	29.59	---	---	48.48	Geomatrix
	11/12/2007	78.07	28.33	---	---	49.74	Stantec
	8/12/2008	78.07	30.02	---	---	48.05	Envent
	10/17/2008	78.07	30.42	---	---	47.65	Envent
MW-SF-12	12/18/2008	78.07	31.55	---	---	46.52	Envent
	1/15/2009	78.07	30.11	---	---	47.96	Envent
	3/24/2009	78.07	29.41	---	---	48.66	Envent
	4/21/2009	78.07	29.52	---	---	48.55	Envent
	7/21/2009	78.07	28.58	---	---	49.49	Envent
	11/4/2009	78.07	30.36	---	---	47.71	Kinder Morgan
	2/4/2010	78.07	29.20	---	---	48.87	Kinder Morgan
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix
	8/21/2007	73.40	23.11	---	---	50.29	Geomatrix
	8/28/2007	73.40	22.85	---	---	50.55	Stantec
	9/11/2007	73.40	23.10	---	---	50.30	Geomatrix
	10/5/2007	73.40	28.11	---	---	45.29	Geomatrix
	11/2/2007	73.40	25.43	25.41	0.02	---	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	---	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	---	Envent
	10/17/2008	73.40	27.28	24.33	2.95	---	Envent
	10/21/2008	73.40	27.14	24.26	2.88	---	Envent
	12/17/2008	73.40	26.21	24.70	1.51	---	Envent
	1/15/2009	73.40	26.90	24.80	2.10	---	Envent
	3/27/2009	73.40	26.46	25.49	0.97	---	Envent
	4/21/2009	73.40	24.86	24.78	0.08	---	Envent
	7/21/2009	73.40	25.72	25.48	0.24	---	Envent
11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan	
2/4/2010	73.40	25.43	25.30	0.13	---	Kinder Morgan	

**TABLE 7
GROUNDWATER AND PRODUCT MEASUREMENTS AND ELEVATIONS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Well ID ¹	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft bTOC)	Measured Depth to Product (ft bTOC)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
MW-SF-14	8/14/2007	78.16	27.68	---	---	50.48	Geomatrix
	8/21/2007	78.16	27.60	---	---	50.56	Geomatrix
	8/28/2007	78.16	27.53	---	---	50.63	Stantec
	9/11/2007	78.16	27.66	---	---	50.50	Geomatrix
	10/5/2007	78.16	27.75	---	---	50.41	Geomatrix
	11/2/2007	78.16	29.83	---	---	48.33	Geomatrix
	8/15/2008	78.16	29.77	29.24	0.53	---	Envent
	10/17/2008	78.16	29.52	29.50	0.02	---	Envent
	12/18/2008	78.16	30.62	---	---	47.54	Envent
	1/15/2009	78.16	30.08	---	---	48.08	Envent
	3/24/2009	78.16	29.73	---	---	48.43	Envent
	4/21/2009	78.16	29.61	---	---	48.55	Envent
	7/21/2009	78.16	29.20	---	---	48.96	Envent
	11/6/2009	78.16	30.48	---	---	47.68	Kinder Morgan
12/9/2009	78.16	30.68	---	---	47.48	Kinder Morgan	
MW-SF-15	8/14/2007	78.27	27.78	27.75	0.03	---	Geomatrix
	8/21/2007	78.27	27.69	27.65	0.04	---	Geomatrix
	8/28/2007	78.27	27.65	27.61	0.04	---	Stantec
	9/11/2007	78.27	27.62	---	---	50.65	Geomatrix
	10/5/2007	78.27	28.15	---	---	50.12	Geomatrix
	11/2/2007	78.27	30.45	30.20	0.25	---	Geomatrix
	11/12/2007	78.27	28.75	---	---	49.52	Stantec
	8/15/2008	78.27	30.12	29.35	0.77	---	Envent
	10/17/2008	78.27	30.80	29.44	1.36	---	Envent
	10/21/2008	78.27	30.80	29.31	1.49	---	Envent
	12/18/2008	78.27	32.11	30.56	1.55	---	Envent
	1/15/2009	78.27	31.75	29.70	2.05	---	Envent
	3/24/2009	78.27	30.32	29.93	0.39	---	Envent
	4/21/2009	78.27	29.96	29.60	0.36	---	Envent
7/21/2009	78.27	30.45	---	---	47.82	Envent	
11/4/2009	78.27	31.10	30.45	0.36	---	Kinder Morgan	
12/9/2009	78.27	30.87	---	---	47.40	Kinder Morgan	
MW-SF-16	8/14/2007	78.21	27.68	---	---	50.53	Geomatrix
	8/21/2007	78.21	27.33	---	---	50.88	Geomatrix
	8/28/2007	78.21	27.51	---	---	50.70	Stantec
	9/11/2007	78.21	27.59	---	---	50.62	Geomatrix
	10/5/2007	78.21	28.10	---	---	50.11	Geomatrix
	11/2/2007	78.21	29.81	---	---	48.40	Geomatrix
	11/12/2007	78.21	28.40	---	---	49.81	Stantec
	8/15/2008	78.21	29.36	---	---	48.85	Envent
	10/17/2008	78.21	29.51	---	---	48.70	Envent
	12/18/2008	78.21	30.94	---	---	47.27	Envent
	1/15/2009	78.21	30.01	30.00	0.01	---	Envent
	3/24/2009	78.21	29.82	---	---	48.39	Envent
	4/21/2009	78.21	29.60	---	---	48.61	Envent
	7/21/2009	78.21	30.36	---	---	47.85	Envent
11/4/2009	78.21	30.58	---	---	47.63	Kinder Morgan	
2/4/2010	78.21	30.36	---	---	47.85	Kinder Morgan	

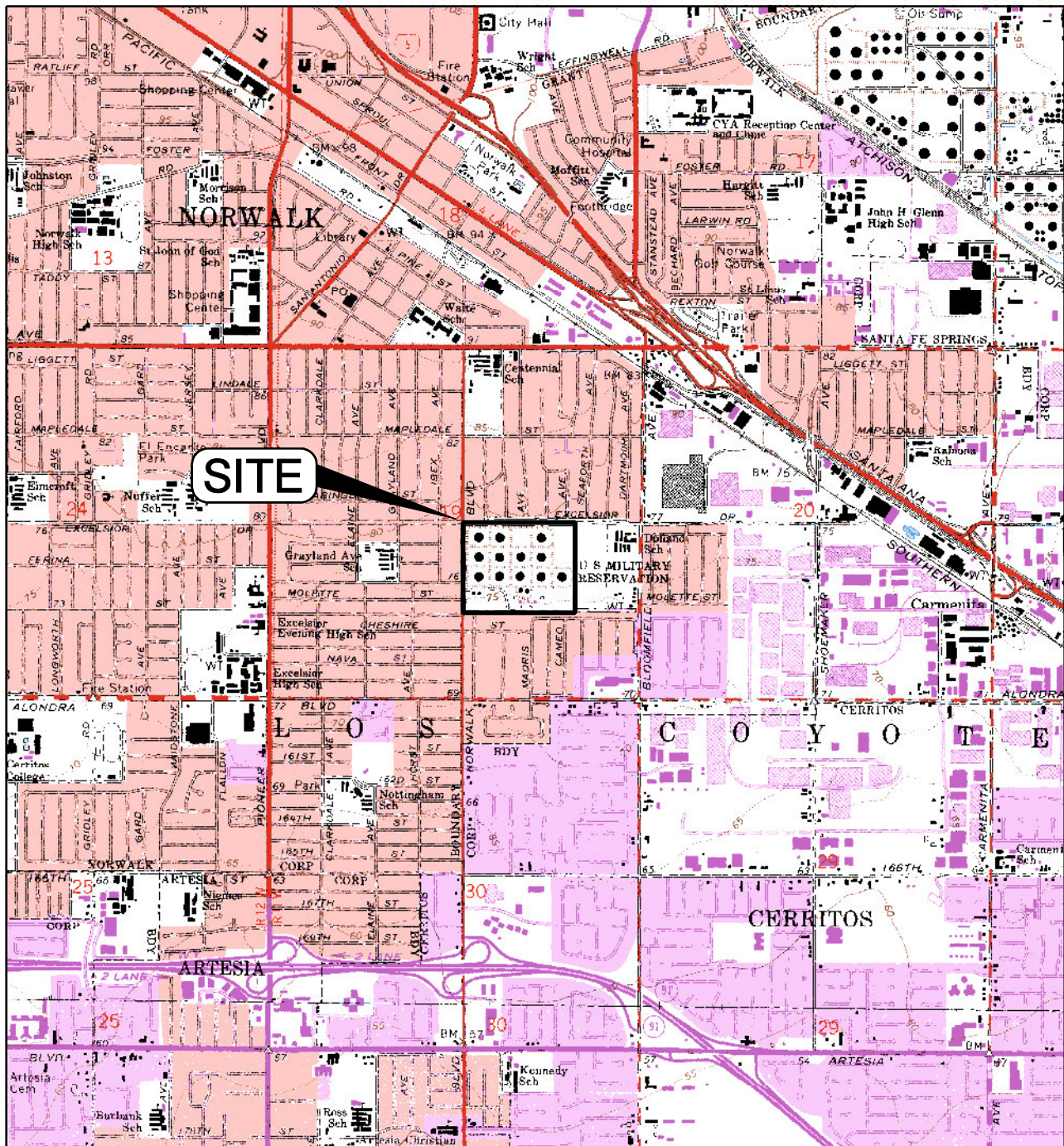
Notes:

1. Wells equipped with a total fluids extraction or groundwater extraction pump are shown in bold font.

Abbreviations:

ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.
ft bTOC = feet below top of casing.
--- = not detected or not applicable.

FIGURES



SITE



Approximate Scale in Feet



Approximate Scale in Meters

BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP
LOS ALAMITOS 1964, CALIFORNIA. PHOTO-REVISED 1981.
WHITTIER 1965, CALIFORNIA. PHOTO-REVISED 1981.

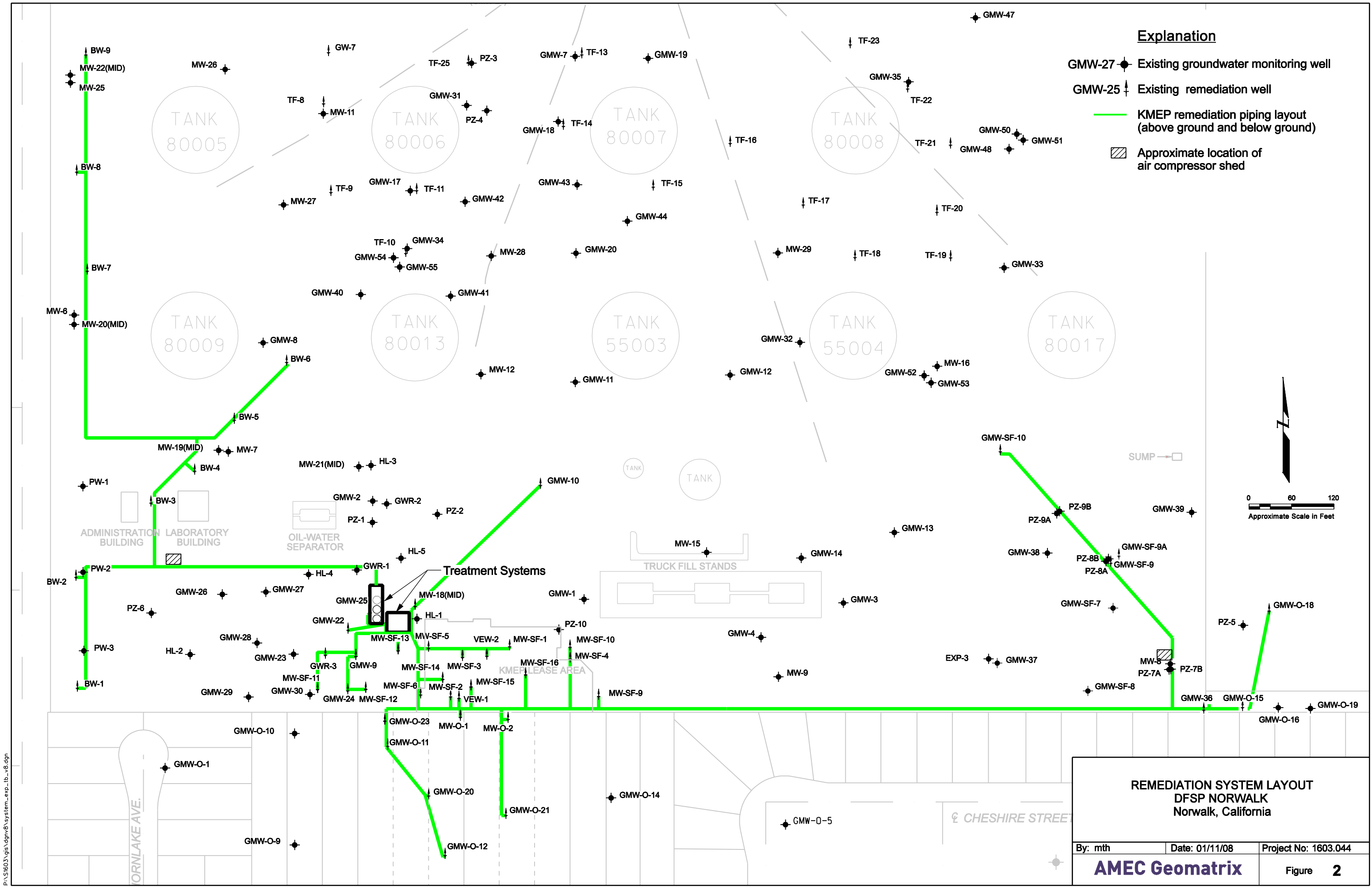
SITE LOCATION MAP

**DFSP NORWALK
Norwalk, California**

By: kle	Date: 07/19/07	Project No: 1603.044
---------	----------------	----------------------

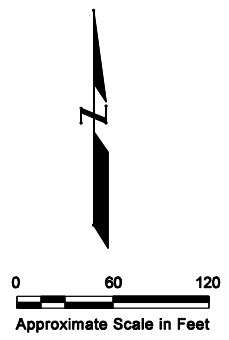
AMEC Geomatrix

Figure 1



Explanation

- GMW-27 Existing groundwater monitoring well
- GMW-25 Existing remediation well
- KMEP remediation piping layout (above ground and below ground)
- Approximate location of air compressor shed



REMEDIATION SYSTEM LAYOUT DFSP NORWALK Norwalk, California		
By: mth	Date: 01/11/08	Project No: 1603.044
AMEC Geomatrix		Figure 2

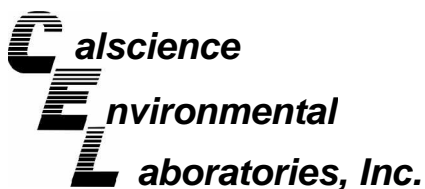
P:\S1603\gis\dmv8\system_exp_tb_v8.dgn

APPENDIX A

LABORATORY ANALYTICAL RESULTS



GROUNDWATER



Supplemental Report 1

April 05, 2010

Alex Padilla
AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Subject: **Calscience Work Order No.: 10-02-1363**
Client Reference: SFPP - Norwalk Site

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/16/2010 and analyzed in accordance with the attached chain-of-custody.

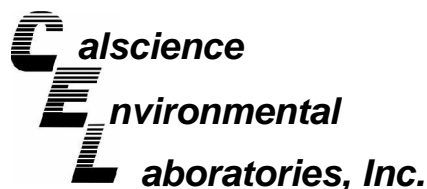
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Mike Z for'.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-16	10-02-1363-1-G	02/16/10 13:15	Aqueous	GC 47	02/19/10	02/20/10 04:07	100219B02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	5900	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	113	68-140				

Method Blank	099-12-384-23	N/A	Aqueous	GC 47	02/19/10	02/20/10 03:21	100219B02
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	ND	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	108	68-140				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-16	10-02-1363-1-E	02/16/10 13:15	Aqueous	GC 4	02/18/10	02/19/10 03:53	100218B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

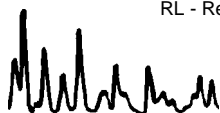
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	8000	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	93	38-134				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,960	N/A	Aqueous	GC 4	02/18/10	02/18/10 15:47	100218B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	70	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 1 of 2


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-16	10-02-1363-1-B	02/16/10 13:15	Aqueous	GC/MS Z	02/18/10	02/18/10 18:27	100218L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	2500	1000	50		1,1-Dichloropropene	ND	50	13	50	
Benzene	4700	25	14	50		c-1,3-Dichloropropene	ND	25	14	50	
Bromobenzene	ND	50	17	50		t-1,3-Dichloropropene	ND	25	18	50	
Bromochloromethane	ND	50	35	50		Ethylbenzene	110	50	11	50	
Bromodichloromethane	ND	50	17	50		2-Hexanone	ND	500	340	50	
Bromoform	ND	50	28	50		Isopropylbenzene	12	50	11	50	J
Bromomethane	ND	500	210	50		p-Isopropyltoluene	ND	50	13	50	
2-Butanone	1100	500	350	50		Methylene Chloride	ND	500	130	50	
n-Butylbenzene	ND	50	14	50		4-Methyl-2-Pentanone	ND	500	220	50	
sec-Butylbenzene	ND	50	10	50		Naphthalene	ND	500	130	50	
tert-Butylbenzene	ND	50	14	50		n-Propylbenzene	ND	50	40	50	
Carbon Disulfide	ND	500	96	50		Styrene	ND	50	15	50	
Carbon Tetrachloride	ND	25	21	50		1,1,1,2-Tetrachloroethane	ND	50	18	50	
Chlorobenzene	ND	50	11	50		1,1,2,2-Tetrachloroethane	ND	50	22	50	
Chloroethane	ND	250	64	50		Tetrachloroethene	ND	50	26	50	
Chloroform	ND	50	17	50		Toluene	1300	50	16	50	
Chloromethane	ND	500	24	50		1,2,3-Trichlorobenzene	ND	50	15	50	
2-Chlorotoluene	ND	50	28	50		1,2,4-Trichlorobenzene	ND	50	24	50	
4-Chlorotoluene	ND	50	11	50		1,1,1-Trichloroethane	ND	50	22	50	
Dibromochloromethane	ND	50	24	50		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	500	32	50	
1,2-Dibromo-3-Chloropropane	ND	250	160	50		1,1,2-Trichloroethane	ND	50	27	50	
1,2-Dibromoethane	ND	50	23	50		Trichloroethene	ND	50	15	50	
Dibromomethane	ND	50	29	50		Trichlorofluoromethane	ND	500	16	50	
1,2-Dichlorobenzene	ND	50	14	50		1,2,3-Trichloropropane	ND	250	67	50	
1,3-Dichlorobenzene	ND	50	14	50		1,2,4-Trimethylbenzene	120	50	12	50	
1,4-Dichlorobenzene	ND	50	11	50		1,3,5-Trimethylbenzene	44	50	12	50	J
Dichlorodifluoromethane	ND	50	25	50		Vinyl Acetate	ND	500	350	50	
1,1-Dichloroethane	ND	50	19	50		Vinyl Chloride	ND	25	16	50	
1,2-Dichloroethane	ND	25	16	50		p/m-Xylene	560	50	23	50	
1,1-Dichloroethene	ND	50	20	50		o-Xylene	240	50	12	50	
c-1,2-Dichloroethene	ND	50	24	50		Methyl-t-Butyl Ether (MTBE)	1800	50	15	50	
t-1,2-Dichloroethene	ND	50	20	50		Diisopropyl Ether (DIPE)	ND	100	15	50	
1,2-Dichloropropane	ND	50	19	50		Ethyl-t-Butyl Ether (ETBE)	ND	100	13	50	
1,3-Dichloropropane	ND	50	19	50		Tert-Amyl-Methyl Ether (TAME)	ND	100	14	50	
2,2-Dichloropropane	ND	50	23	50		Ethanol	ND	5000	2500	50	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	108	80-132		1,2-Dichloroethane-d4	137	80-141	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	111	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 2 of 2

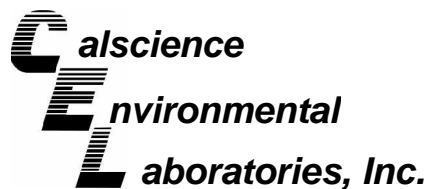
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-32,272	N/A	Aqueous	GC/MS Z	02/18/10	02/18/10 12:06	100218L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Benzene	ND	0.50	0.28	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromobenzene	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromochloromethane	ND	1.0	0.69	1		Ethylbenzene	ND	1.0	0.22	1	
Bromodichloromethane	ND	1.0	0.33	1		2-Hexanone	ND	10	6.9	1	
Bromoform	ND	1.0	0.55	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromomethane	ND	10	4.3	1		p-Isopropyltoluene	ND	1.0	0.26	1	
2-Butanone	ND	10	6.9	1		Methylene Chloride	ND	10	2.6	1	
n-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
sec-Butylbenzene	ND	1.0	0.20	1		Naphthalene	ND	10	2.5	1	
tert-Butylbenzene	ND	1.0	0.28	1		n-Propylbenzene	ND	1.0	0.79	1	
Carbon Disulfide	ND	10	1.9	1		Styrene	ND	1.0	0.30	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chlorobenzene	ND	1.0	0.22	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroethane	ND	5.0	1.3	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroform	ND	1.0	0.33	1		Toluene	ND	1.0	0.33	1	
Chloromethane	ND	10	0.49	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichloroethene	ND	1.0	0.30	1	
Dibromomethane	ND	1.0	0.59	1		Trichlorofluoromethane	ND	10	0.31	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethane	ND	1.0	0.37	1		Vinyl Chloride	ND	0.50	0.33	1	
1,2-Dichloroethane	ND	0.50	0.31	1		p/m-Xylene	ND	1.0	0.45	1	
1,1-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control I	Qual		
Dibromofluoromethane	106	80-132				1,2-Dichloroethane-d4	122	80-141			
Toluene-d8	104	80-120				1,4-Bromofluorobenzene	105	76-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

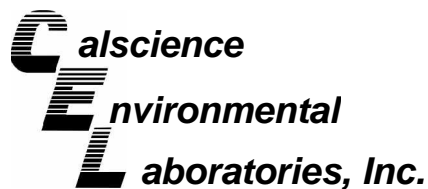
Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1512-1	Aqueous	GC 4	02/18/10	02/18/10	100218S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	94	68-122	5	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Newport Beach, CA 92663-3627

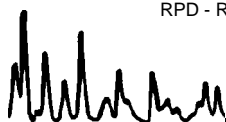
Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8260B

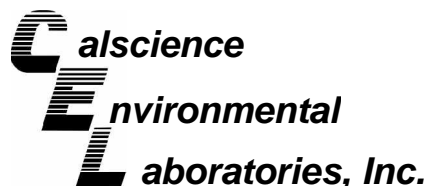
Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1305-2	Aqueous	GC/MS Z	02/18/10	02/18/10	100218S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetone	49	43	10-150	14	0-20	
Benzene	100	101	72-120	1	0-20	
Bromobenzene	101	101	10-150	1	0-20	
Bromochloromethane	105	109	10-150	4	0-20	
Bromodichloromethane	124	125	10-150	1	0-20	
Bromoform	120	124	10-150	3	0-20	
Bromomethane	124	151	10-150	20	0-20	3
2-Butanone	63	60	10-150	5	0-20	
n-Butylbenzene	103	107	10-150	4	0-20	
sec-Butylbenzene	101	103	10-150	2	0-20	
tert-Butylbenzene	102	107	10-150	5	0-20	
Carbon Disulfide	88	89	10-150	1	0-20	
Carbon Tetrachloride	125	131	63-135	5	0-20	
Chlorobenzene	97	100	80-120	3	0-20	
Chloroethane	139	120	10-150	15	0-20	
Chloroform	114	112	10-150	2	0-20	
Chloromethane	109	109	10-150	0	0-20	
2-Chlorotoluene	109	110	10-150	1	0-20	
4-Chlorotoluene	106	107	10-150	2	0-20	
Dibromochloromethane	123	125	10-150	2	0-20	
1,2-Dibromo-3-Chloropropane	129	128	10-150	1	0-20	
1,2-Dibromoethane	107	109	80-120	2	0-20	
Dibromomethane	119	117	10-150	1	0-20	
1,2-Dichlorobenzene	99	100	80-120	1	0-20	
1,3-Dichlorobenzene	94	95	10-150	1	0-20	
1,4-Dichlorobenzene	92	94	10-150	3	0-20	
Dichlorodifluoromethane	158	159	10-150	1	0-20	3
1,1-Dichloroethane	108	106	10-150	1	0-20	
1,2-Dichloroethane	133	134	10-150	1	0-20	
1,1-Dichloroethene	108	110	60-132	2	0-25	
c-1,2-Dichloroethene	95	97	10-150	1	0-20	
t-1,2-Dichloroethene	98	97	10-150	1	0-20	
1,2-Dichloropropane	101	104	10-150	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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Newport Beach, CA 92663-3627

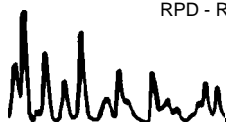
Date Received: 02/16/10
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8260B

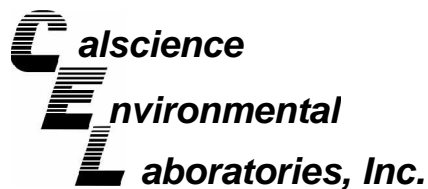
Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1305-2	Aqueous	GC/MS Z	02/18/10	02/18/10	100218S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,3-Dichloropropane	111	112	10-150	0	0-20	
2,2-Dichloropropane	128	126	10-150	1	0-20	
1,1-Dichloropropene	107	110	10-150	3	0-20	
c-1,3-Dichloropropene	118	118	10-150	0	0-20	
t-1,3-Dichloropropene	127	130	10-150	2	0-20	
Ethylbenzene	106	108	78-120	2	0-20	
2-Hexanone	79	78	10-150	1	0-20	
Isopropylbenzene	108	110	10-150	2	0-20	
p-Isopropyltoluene	99	102	10-150	4	0-20	
Methylene Chloride	97	97	10-150	0	0-20	
4-Methyl-2-Pentanone	108	105	10-150	3	0-20	
Naphthalene	90	97	10-150	7	0-20	
n-Propylbenzene	106	108	10-150	3	0-20	
Styrene	97	97	10-150	0	0-20	
1,1,1,2-Tetrachloroethane	116	120	10-150	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	98	100	10-150	2	0-20	
1,1,2,2-Tetrachloroethane	102	103	10-150	1	0-20	
Tetrachloroethene	98	99	10-150	0	0-20	
Toluene	99	101	74-122	2	0-20	
1,2,3-Trichlorobenzene	94	100	10-150	6	0-20	
1,2,4-Trichlorobenzene	97	103	10-150	6	0-20	
1,1,1-Trichloroethane	122	124	10-150	2	0-20	
1,1,2-Trichloroethane	107	107	10-150	0	0-20	
Trichloroethene	108	110	69-120	1	0-20	
Trichlorofluoromethane	143	141	10-150	1	0-20	
1,2,3-Trichloropropane	131	131	10-150	0	0-20	
1,2,4-Trimethylbenzene	99	103	10-150	3	0-20	
1,3,5-Trimethylbenzene	108	112	10-150	3	0-20	
Vinyl Acetate	94	95	10-150	2	0-20	
Vinyl Chloride	120	123	58-130	2	0-20	
p/m-Xylene	111	110	10-150	0	0-20	
o-Xylene	114	116	10-150	2	0-20	
Methyl-t-Butyl Ether (MTBE)	120	118	72-126	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

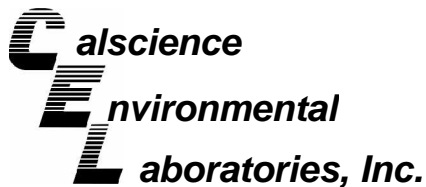
Date Received: N/A
Work Order No: 10-02-1363
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-23	Aqueous	GC 47	02/19/10	02/20/10	100219B02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Fuel Product	93	90	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

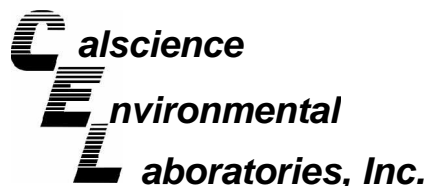
Date Received: N/A
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,960	Aqueous	GC 4	02/18/10	02/18/10	100218B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	109	101	78-120	7	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: N/A
Work Order No: 10-02-1363
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-32,272	Aqueous	GC/MS Z	02/18/10	02/18/10	100218L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	98	80-122	73-129	1	0-20	
Carbon Tetrachloride	122	127	68-140	56-152	4	0-20	
Chlorobenzene	94	98	80-120	73-127	4	0-20	
1,2-Dibromoethane	104	104	80-121	73-128	0	0-20	
1,2-Dichlorobenzene	94	97	80-120	73-127	3	0-20	
1,1-Dichloroethene	105	109	72-132	62-142	3	0-25	
Ethylbenzene	105	107	80-126	72-134	2	0-20	
Toluene	98	98	80-121	73-128	1	0-20	
Trichloroethene	108	108	80-123	73-130	0	0-20	
Vinyl Chloride	124	121	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	112	115	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	88	99	75-123	67-131	12	0-20	
Diisopropyl Ether (DIPE)	102	104	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	113	113	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	115	114	80-123	73-130	1	0-20	
Ethanol	76	83	61-139	48-152	9	0-27	

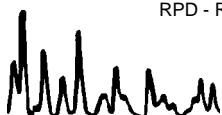
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

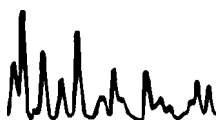
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-02-1363

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



CHAIN OF CUSTODY RECORD

DATE: 02-16-10
PAGE: 1 OF 1

LABORATORY CLIENT:
Kindler Morgan Energy Partners, Attn: Steve Defibaugh
 ADDRESS:
1100 Town & Country Road
 CITY:
Orange, CA 92868
 TEL:
714-560-4802 FAX:
714-560-4601 E-MAIL:
James_cher@kindermorgan.com

CLIENT PROJECT NAME/NUMBER:
SFPP - Norwalk Site
 P.O. NO.:
02-1363

PROJECT CONTACT:
James Dye
 QUOTE NO.:
021363

SAMPLER(S) (SIGNATURE):

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT- RIX	NO. OF CONT.	TPH-g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)	Oil & Grease (413.1)	TPH-g (CS-C14 Only) (8015M)	MBE;BTEX:1-1-DCA;1-2-DCA;MEK(8260B)	Settleable Solids (160.5)	Total Suspended Solids (160.2)	Phenolics (420.1)	Hg,Cr(VI),Cu(1669.7199.6020)	Comments
	INF- 02-16	Influent	02-16-10	1315	WW	7	X	X	X	X	X	X	X	X	X	X	Temperature* = 72
	EFF- 02-16	Effluent	02-16-10	1315	WW	11											Temperature* = 72
																	(Temp. as sampled*)
																	Monthly

LAB USE ONLY

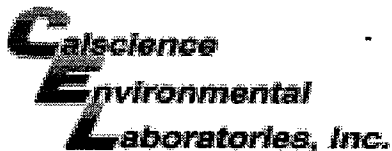
Relinquished by: (Signature)
 Received by: (Signature)

Received by: (Signature)
 Date: 2/16/10 14:19

Relinquished by: (Signature)
 Received by: (Signature)

Relinquished by: (Signature)
 Received by: (Signature)

Revised: 07/23/09



WORK ORDER #: 10-02-1363

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KMEP

DATE: 02/16/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 1.8°C + 0.5°C (CF) = 2.3°C [x] Blank [] Sample

- [] Sample(s) outside temperature criteria (PM/APM contacted by: _____).
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter [] Metals Only [] PCBs Only

Initial: PL

CUSTODY SEALS INTACT:

- [] Cooler [] _____ [] No (Not Intact) [x] Not Present [] N/A
[] Sample [] _____ [] No (Not Intact) [x] Not Present

Initial: PL

Initial: WSC

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

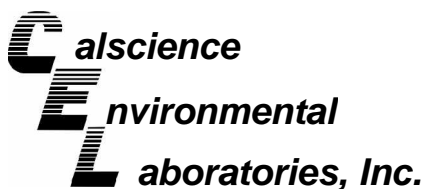
CONTAINER TYPE:

- Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____
Water: [] VOA [x] VOAh [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [x] 1AGBs
[] 500AGB [x] 500AGJ [x] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [x] 1PB [] 500PB [] 500PBna
[] 250PB [x] 250PBn [] 125PB [] 125PBzanna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____

Air: [] Tedlar® [] Summa® Other: [] _____ Trip Blank Lot#: _____ Checked by: WSC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: RW

Preservative: h: HCL n: HNO3 na2: Na2S2O3 Na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: WSC



Supplemental Report 2

April 05, 2010

Alex Padilla
AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Subject: **Calscience Work Order No.: 10-03-0664**
Client Reference: SFPP - Norwalk Site

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/9/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Mike Z for'.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-09	10-03-0664-1-G	03/09/10 11:20	Aqueous	GC 27	03/11/10	03/12/10 03:11	100311B06

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

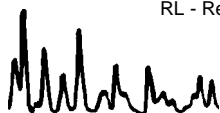
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	5900	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	98	68-140				

Method Blank	099-12-384-24	N/A	Aqueous	GC 27	03/11/10	03/12/10 02:17	100311B06
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	ND	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	109	68-140				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-09	10-03-0664-1-E	03/09/10 11:20	Aqueous	GC 57	03/11/10	03/11/10 10:32	100311B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

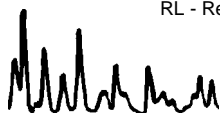
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	7000	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	138	38-134			2	

Method Blank	099-12-247-4,011	N/A	Aqueous	GC 57	03/11/10	03/11/10 04:07	100311B01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	101	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-09	10-03-0664-1-A	03/09/10 11:20	Aqueous	GC/MS LL	03/10/10	03/11/10 08:36	100310L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	2500	1000	50		1,1-Dichloropropene	ND	50	13	50	
Benzene	6600	25	14	50		c-1,3-Dichloropropene	ND	25	14	50	
Bromobenzene	ND	50	17	50		t-1,3-Dichloropropene	ND	25	18	50	
Bromochloromethane	ND	50	35	50		Ethylbenzene	110	50	11	50	
Bromodichloromethane	ND	50	17	50		2-Hexanone	ND	500	340	50	
Bromoform	ND	50	28	50		Isopropylbenzene	20	50	11	50	J
Bromomethane	ND	500	210	50		p-Isopropyltoluene	ND	50	13	50	
2-Butanone	ND	500	350	50		Methylene Chloride	ND	500	130	50	
n-Butylbenzene	ND	50	14	50		4-Methyl-2-Pentanone	ND	500	220	50	
sec-Butylbenzene	ND	50	10	50		Naphthalene	140	500	130	50	J
tert-Butylbenzene	ND	50	14	50		n-Propylbenzene	45	50	40	50	J
Carbon Disulfide	ND	500	96	50		Styrene	ND	50	15	50	
Carbon Tetrachloride	ND	25	21	50		1,1,1,2-Tetrachloroethane	ND	50	18	50	
Chlorobenzene	ND	50	11	50		1,1,2,2-Tetrachloroethane	ND	50	22	50	
Chloroethane	ND	250	64	50		Tetrachloroethene	ND	50	26	50	
Chloroform	ND	50	17	50		Toluene	460	50	16	50	
Chloromethane	ND	500	24	50		1,2,3-Trichlorobenzene	ND	50	15	50	
2-Chlorotoluene	ND	50	28	50		1,2,4-Trichlorobenzene	ND	50	24	50	
4-Chlorotoluene	ND	50	11	50		1,1,1-Trichloroethane	ND	50	22	50	
Dibromochloromethane	ND	50	24	50		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	500	32	50	
1,2-Dibromo-3-Chloropropane	ND	250	160	50		1,1,2-Trichloroethane	ND	50	27	50	
1,2-Dibromoethane	ND	50	23	50		Trichloroethene	ND	50	15	50	
Dibromomethane	ND	50	29	50		Trichlorofluoromethane	ND	500	16	50	
1,2-Dichlorobenzene	ND	50	14	50		1,2,3-Trichloropropane	ND	250	67	50	
1,3-Dichlorobenzene	ND	50	14	50		1,2,4-Trimethylbenzene	120	50	12	50	
1,4-Dichlorobenzene	ND	50	11	50		1,3,5-Trimethylbenzene	38	50	12	50	J
Dichlorodifluoromethane	ND	50	25	50		Vinyl Acetate	ND	500	350	50	
1,1-Dichloroethane	ND	50	19	50		Vinyl Chloride	ND	25	16	50	
1,2-Dichloroethane	ND	25	16	50		p/m-Xylene	440	50	23	50	
1,1-Dichloroethene	ND	50	20	50		o-Xylene	110	50	12	50	
c-1,2-Dichloroethene	ND	50	24	50		Methyl-t-Butyl Ether (MTBE)	410	50	15	50	
t-1,2-Dichloroethene	ND	50	20	50		Diisopropyl Ether (DIPE)	56	100	15	50	J
1,2-Dichloropropane	ND	50	19	50		Ethyl-t-Butyl Ether (ETBE)	ND	100	13	50	
1,3-Dichloropropane	ND	50	19	50		Tert-Amyl-Methyl Ether (TAME)	ND	100	14	50	
2,2-Dichloropropane	ND	50	23	50		Ethanol	ND	5000	2500	50	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	97	80-132		1,2-Dichloroethane-d4	101	80-141	
Toluene-d8	96	80-120		1,4-Bromofluorobenzene	90	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site


Page 2 of 2

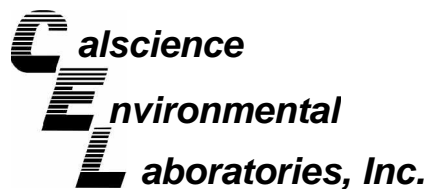
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-64	N/A	Aqueous	GC/MS LL	03/10/10	03/11/10 02:14	100310L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Benzene	ND	0.50	0.28	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromobenzene	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromochloromethane	ND	1.0	0.69	1		Ethylbenzene	ND	1.0	0.22	1	
Bromodichloromethane	ND	1.0	0.33	1		2-Hexanone	ND	10	6.9	1	
Bromoform	ND	1.0	0.55	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromomethane	ND	10	4.3	1		p-Isopropyltoluene	ND	1.0	0.26	1	
2-Butanone	ND	10	6.9	1		Methylene Chloride	ND	10	2.6	1	
n-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
sec-Butylbenzene	ND	1.0	0.20	1		Naphthalene	ND	10	2.5	1	
tert-Butylbenzene	ND	1.0	0.28	1		n-Propylbenzene	ND	1.0	0.79	1	
Carbon Disulfide	ND	10	1.9	1		Styrene	ND	1.0	0.30	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chlorobenzene	ND	1.0	0.22	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroethane	ND	5.0	1.3	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroform	ND	1.0	0.33	1		Toluene	ND	1.0	0.33	1	
Chloromethane	ND	10	0.49	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichloroethene	ND	1.0	0.30	1	
Dibromomethane	ND	1.0	0.59	1		Trichlorofluoromethane	ND	10	0.31	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethane	ND	1.0	0.37	1		Vinyl Chloride	ND	0.50	0.33	1	
1,2-Dichloroethane	ND	0.50	0.31	1		p/m-Xylene	ND	1.0	0.45	1	
1,1-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	ND	2.0	0.31	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.27	1	
1,3-Dichloropropane	ND	1.0	0.38	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.28	1	
2,2-Dichloropropane	ND	1.0	0.46	1		Ethanol	ND	100	50	1	
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control I	Qual		
Dibromofluoromethane	95	80-132				1,2-Dichloroethane-d4	98	80-141			
Toluene-d8	97	80-120				1,4-Bromofluorobenzene	90	76-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

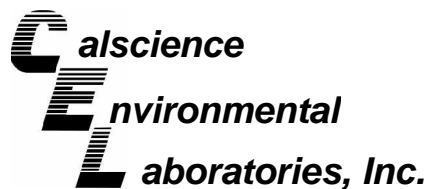
Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-03-0680-3	Aqueous	GC 57	03/11/10	03/11/10	100311S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	99	68-122	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

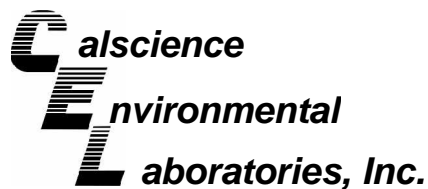
Date Received: 03/09/10
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-03-0680-3	Aqueous	GC/MS LL	03/10/10	03/11/10	100310S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	99	72-120	5	0-20	
Carbon Tetrachloride	98	95	63-135	2	0-20	
Chlorobenzene	108	103	80-120	5	0-20	
1,2-Dibromoethane	102	99	80-120	3	0-20	
1,2-Dichlorobenzene	109	102	80-120	6	0-20	
1,1-Dichloroethene	107	102	60-132	5	0-24	
Ethylbenzene	107	102	78-120	5	0-20	
Toluene	108	103	74-122	4	0-20	
Trichloroethene	100	95	69-120	5	0-20	
Vinyl Chloride	93	94	58-130	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	98	72-126	5	0-21	
Tert-Butyl Alcohol (TBA)	109	109	72-126	0	0-20	
Diisopropyl Ether (DIPE)	102	96	71-137	5	0-23	
Ethyl-t-Butyl Ether (ETBE)	100	96	74-128	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	94	76-124	4	0-20	
Ethanol	107	112	35-167	5	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

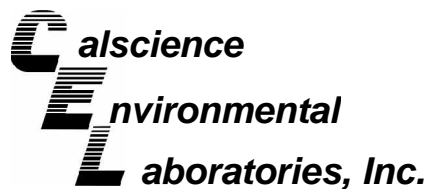
Date Received: N/A
Work Order No: 10-03-0664
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-24	Aqueous	GC 27	03/11/10	03/12/10	100311B06

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Fuel Product	109	107	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

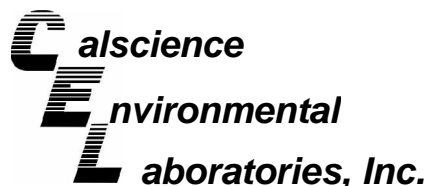
Date Received: N/A
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-4,011	Aqueous	GC 57	03/11/10	03/11/10	100311B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	99	101	78-120	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: N/A
Work Order No: 10-03-0664
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-64	Aqueous	GC/MS LL	03/10/10	03/11/10	100310L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	104	102	80-122	73-129	3	0-20	
Carbon Tetrachloride	99	99	68-140	56-152	0	0-20	
Chlorobenzene	107	104	80-120	73-127	2	0-20	
1,2-Dibromoethane	102	101	80-121	73-128	0	0-20	
1,2-Dichlorobenzene	108	109	80-120	73-127	1	0-20	
1,1-Dichloroethene	106	105	72-132	62-142	1	0-25	
Ethylbenzene	106	104	80-126	72-134	2	0-20	
Toluene	108	106	80-121	73-128	2	0-20	
Trichloroethene	100	98	80-123	73-130	2	0-20	
Vinyl Chloride	101	99	67-133	56-144	1	0-20	
Methyl-t-Butyl Ether (MTBE)	102	102	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	104	106	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	102	102	71-131	61-141	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	99	100	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	99	96	80-123	73-130	2	0-20	
Ethanol	103	102	61-139	48-152	1	0-27	

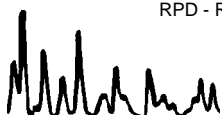
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-03-0664

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



CHAIN OF CUSTODY RECORD

DATE: 03-08-10

PAGE: 1 OF 1

CalScience Environmental Laboratories, Inc.
 7440 LINCOLN WAY
 GARDEN GROVE, CA 92641-1432
 TEL: (714) 895-5494 . FAX: (714) 894-7501

LABORATORY CLIENT: **Kindler Morgan Energy Partners, Attn: Steve Defibaugh**
 ADDRESS: **1100 Town & Country Road**
 CITY: **Orange, CA 92868**
 TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: **James.dye@kindermorgan.com**

CLIENT PROJECT NAME/NUMBER: **SFPP - Norwalk Site**
 PROJECT CONTACT: **James Dye**
 SAMPLER(S): (SIGNATURE) *[Signature]*

P.O. NO.:
 QUOTE NO.:
 LAB USE ONLY: 030604

REQUESTED ANALYSIS

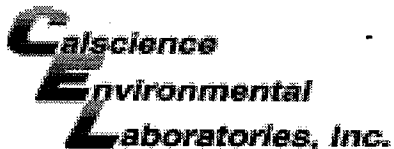
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT- RIX	NO. OF CONT.	TPH - g (8015M)	VOCs, Full List (8260B)	Oil & Grease (413.1)	TPH-g (CS-C14 Only) (8015M)	MBE;BTEX;1,1-DCA;1,2-DCA;MEK(8260B)	Settleable Solids (160.5)	Total Suspended Solids (160.2)	Phenolics (420.1)	Hg,Cr(VI),Cu(1669,7199,6020)	Selenium on 24 HR TAT	Comments
1	INF-03-08	Influent	03-08-10	1120	WW	7	X	X	X	X	X	X	X	X	X		Temperature* = 70.1
2	EFF-03-08	Effluent	03-08-10	1120	WW	12											Temperature* = 70.1 (Temp. as sampled*)
																	Monthly

TURNAROUND TIME:
 SAME DAY 24 HR 48HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL / /
 SPECIAL INSTRUCTIONS
Report to A. Padilla at Geomatrix, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

Relinquished by: (Signature) *[Signature]* Date: 3/9/10 Time: 13:42
 Relinquished by: (Signature) *[Signature]* Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) *[Signature]* Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Revised: 07/23/09



WORK ORDER #: 10-03-0664

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KMEP

DATE: 03/9/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.1 °C + 0.5°C (CF) = 2.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: DL

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: DL

Sample _____ No (Not Intact) Not Present Initial: DL

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA^h VOA_{na2} 125AGB 125AGBh 125AGBp 1AGB 1AGB_{na2} 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Checked by: P.L

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WSE

Preservative: h: HCL n: HNO3 na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: P.L

WORK ORDER #: 10-03-0664

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Sample(s)/Container(s) NOT RECEIVED but listed on COC
- Sample(s)/Container(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Leaking
 - Broken
 - Without Label(s)
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Comments:

(-1) Labeled as INF-03-09
 collection date per
 label is 03/09/10

(-2) Labeled as EFF-03-09
 collection date per label
 is 03/09/10

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

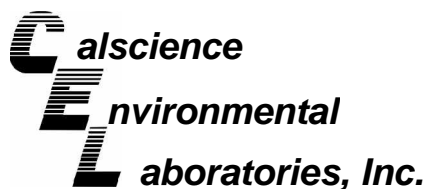
Comments: _____

*Transferred at Client's request.

Initial / Date: D.C 03/9/10



VAPOR



March 05, 2010

Alex Padilla
AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Subject: **CalScience Work Order No.: 10-02-2230**
Client Reference: SFPP - Norwalk Site

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/26/2010 and analyzed in accordance with the attached chain-of-custody.

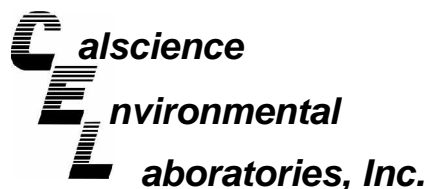
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nowak', written in a cursive style.

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



AMEC Geomatrix, Inc.
 510 Superior Avenue
 Suite 200
 Newport Beach, CA 92663-3627

Date Received: 02/26/10
 Work Order No: 10-02-2230
 Preparation: N/A
 Method: ASTM D-1946
 Units: %v

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-26	10-02-2230-1-A	02/26/10 11:45	Air	GC 36	N/A	02/26/10 00:00	100226L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.0981	1		Oxygen + Argon	21.2	0.500	0.370	1	
Carbon Dioxide	0.445	0.500	0.344	1	J						

Method Blank	099-03-002-1,007	N/A	Air	GC 36	N/A	02/26/10 00:00	100226L01
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.0981	1		Oxygen + Argon	ND	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/26/10
Work Order No: 10-02-2230
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-26	10-02-2230-1-A	02/26/10 11:45	Air	GC 13	N/A	02/26/10 18:11	100226L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

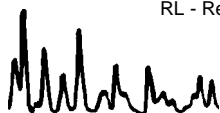
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	20	1.5	0.17	1		ppm (v/v)

Method Blank	098-01-005-2,136	N/A	Air	GC 13	N/A	02/26/10 09:11	100226L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	1.5	0.17	1		ppm (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/26/10
Work Order No: 10-02-2230
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

Page 1 of 2

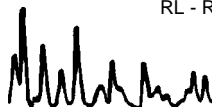
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-02-26	10-02-2230-1-A	02/26/10 11:45	Air	GC/MS II	N/A	02/26/10 22:46	100226L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	250	120	5		t-1,2-Dichloroethene	ND	2.5	0.93	5	
Benzene	300	2.5	0.47	5		t-1,3-Dichloropropene	ND	5.0	0.51	5	
Benzyl Chloride	ND	7.5	2.0	5		Ethylbenzene	18	2.5	0.57	5	
Bromodichloromethane	ND	2.5	0.51	5		4-Ethyltoluene	11	2.5	0.91	5	
Bromoform	ND	10	0.76	5		Hexachloro-1,3-Butadiene	ND	7.5	0.90	5	
Bromomethane	ND	2.5	0.46	5		2-Hexanone	ND	7.5	2.6	5	
2-Butanone	14	7.5	0.50	5		Methyl-t-Butyl Ether (MTBE)	21	10	0.59	5	
Carbon Disulfide	ND	50	25	5		Methylene Chloride	2.0	25	0.94	5	B,J
Carbon Tetrachloride	ND	2.5	0.49	5		4-Methyl-2-Pentanone	ND	7.5	0.76	5	
Chlorobenzene	ND	2.5	0.54	5		o-Xylene	120	2.5	0.60	5	
Chloroethane	ND	2.5	0.77	5		p/m-Xylene	140	10	3.8	5	
Chloroform	ND	2.5	0.45	5		Styrene	ND	7.5	0.89	5	
Chloromethane	ND	2.5	0.49	5		Tetrachloroethene	ND	2.5	0.55	5	
Dibromochloromethane	ND	2.5	0.56	5		Toluene	220	25	10	5	
Dichlorodifluoromethane	ND	2.5	0.72	5		Trichloroethene	1.2	2.5	0.53	5	J
1,1-Dichloroethane	ND	2.5	0.51	5		Trichlorofluoromethane	ND	5.0	0.39	5	
1,1-Dichloroethene	ND	2.5	0.55	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	0.50	5	
1,2-Dibromoethane	ND	2.5	0.56	5		1,1,1-Trichloroethane	ND	2.5	0.50	5	
Dichlorotetrafluoroethane	ND	10	0.55	5		1,1,2-Trichloroethane	ND	2.5	0.61	5	
1,2-Dichlorobenzene	ND	2.5	0.55	5		1,3,5-Trimethylbenzene	30	2.5	0.84	5	
1,2-Dichloroethane	ND	2.5	0.47	5		1,1,2,2-Tetrachloroethane	ND	5.0	0.53	5	
1,2-Dichloropropane	ND	2.5	0.57	5		1,2,4-Trimethylbenzene	17	7.5	1.6	5	
1,3-Dichlorobenzene	ND	2.5	0.65	5		1,2,4-Trichlorobenzene	ND	10	3.6	5	
1,4-Dichlorobenzene	ND	2.5	0.67	5		Vinyl Acetate	ND	10	2.3	5	
c-1,3-Dichloropropene	ND	2.5	0.70	5		Vinyl Chloride	ND	2.5	0.50	5	
c-1,2-Dichloroethene	ND	2.5	0.66	5							
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control I	Qual		
1,4-Bromofluorobenzene	97	57-129				1,2-Dichloroethane-d4	99	47-137			
Toluene-d8	101	78-156									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 02/26/10
Work Order No: 10-02-2230
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-981-378	N/A	Air	GC/MS II	N/A	02/26/10 14:25	100226L01

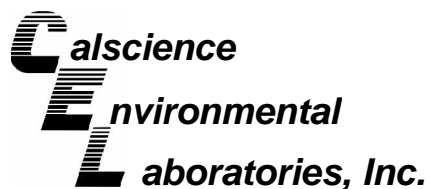
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	25	1		t-1,2-Dichloroethene	ND	0.50	0.19	1	
Benzene	ND	0.50	0.094	1		t-1,3-Dichloropropene	ND	1.0	0.10	1	
Benzyl Chloride	ND	1.5	0.39	1		Ethylbenzene	ND	0.50	0.11	1	
Bromodichloromethane	ND	0.50	0.10	1		4-Ethyltoluene	ND	0.50	0.18	1	
Bromoform	ND	2.0	0.15	1		Hexachloro-1,3-Butadiene	ND	1.5	0.18	1	
Bromomethane	ND	0.50	0.093	1		2-Hexanone	ND	1.5	0.52	1	
2-Butanone	ND	1.5	0.099	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.12	1	
Carbon Disulfide	ND	10	5.0	1		Methylene Chloride	0.26	5.0	0.19	1	J
Carbon Tetrachloride	ND	0.50	0.098	1		4-Methyl-2-Pentanone	ND	1.5	0.15	1	
Chlorobenzene	ND	0.50	0.11	1		o-Xylene	ND	0.50	0.12	1	
Chloroethane	ND	0.50	0.15	1		p/m-Xylene	ND	2.0	0.76	1	
Chloroform	ND	0.50	0.090	1		Styrene	ND	1.5	0.18	1	
Chloromethane	ND	0.50	0.098	1		Tetrachloroethene	ND	0.50	0.11	1	
Dibromochloromethane	ND	0.50	0.11	1		Toluene	ND	5.0	2.0	1	
Dichlorodifluoromethane	ND	0.50	0.14	1		Trichloroethene	ND	0.50	0.11	1	
1,1-Dichloroethane	ND	0.50	0.10	1		Trichlorofluoromethane	ND	1.0	0.077	1	
1,1-Dichloroethene	ND	0.50	0.11	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	0.10	1	
1,2-Dibromoethane	ND	0.50	0.11	1		1,1,1-Trichloroethane	ND	0.50	0.10	1	
Dichlorotetrafluoroethane	ND	2.0	0.11	1		1,1,2-Trichloroethane	ND	0.50	0.12	1	
1,2-Dichlorobenzene	ND	0.50	0.11	1		1,3,5-Trimethylbenzene	ND	0.50	0.17	1	
1,2-Dichloroethane	ND	0.50	0.095	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.11	1	
1,2-Dichloropropane	ND	0.50	0.11	1		1,2,4-Trimethylbenzene	ND	1.5	0.33	1	
1,3-Dichlorobenzene	ND	0.50	0.13	1		1,2,4-Trichlorobenzene	ND	2.0	0.72	1	
1,4-Dichlorobenzene	ND	0.50	0.13	1		Vinyl Acetate	ND	2.0	0.45	1	
c-1,3-Dichloropropene	ND	0.50	0.14	1		Vinyl Chloride	ND	0.50	0.10	1	
c-1,2-Dichloroethene	ND	0.50	0.13	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
1,4-Bromofluorobenzene	90	57-129		1,2-Dichloroethane-d4	96	47-137	
Toluene-d8	89	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

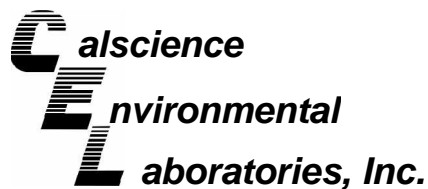
Date Received: 02/26/10
Work Order No: 10-02-2230
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
10-02-2144-1	Air	GC 13	N/A	02/26/10	100226D01

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	18	18	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

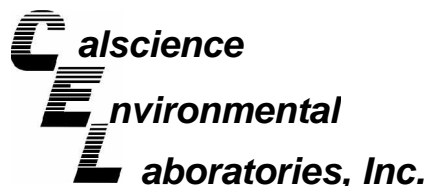
Date Received: N/A
Work Order No: 10-02-2230
Preparation: N/A
Method: ASTM D-1946

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,007	Air	GC 36	N/A	02/26/10	100226L01

<u>Parameter</u>	<u>LCS Conc</u>	<u>LCSD Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon Dioxide	5.278	5.288	0	0-30	
Oxygen + Argon	19.63	19.67	0	0-30	
Nitrogen	74.01	74.18	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: N/A
Work Order No: 10-02-2230
Preparation: N/A
Method: EPA TO-15M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-981-378	Air	GC/MS II	N/A	02/26/10	100226L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	105	60-156	44-172	1	0-40	
Carbon Tetrachloride	106	106	64-154	49-169	0	0-32	
1,2-Dibromoethane	116	116	54-144	39-159	1	0-36	
1,2-Dichlorobenzene	113	107	34-160	13-181	5	0-47	
1,2-Dichloroethane	101	101	69-153	55-167	0	0-30	
1,2-Dichloropropane	103	102	67-157	52-172	1	0-35	
1,4-Dichlorobenzene	113	110	36-156	16-176	3	0-47	
c-1,3-Dichloropropene	118	118	61-157	45-173	0	0-35	
Ethylbenzene	110	109	52-154	35-171	1	0-38	
o-Xylene	113	111	52-148	36-164	2	0-38	
p/m-Xylene	92	90	42-156	23-175	2	0-41	
Tetrachloroethene	106	106	56-152	40-168	0	0-40	
Toluene	110	108	56-146	41-161	1	0-43	
Trichloroethene	105	104	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	111	110	65-149	51-163	1	0-37	
Vinyl Chloride	101	102	45-177	23-199	1	0-36	

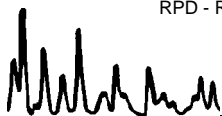
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-02-2230

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





7440 LINCOLN WAY
 GARDEN GROVE, CA 92841-1432
 TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD
 DATE: 02-26-10
 PAGE: 1 OF 1

LABORATORY CLIENT: **Kindler Morgan Energy Partners, Attn: Steve Definbough**
 ADDRESS: **1100 Town & Country Road**
 CITY: **Orange, CA 92868**
 TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: **James_Ave@kindermorgan.com**
 TURNAROUND TIME: SAME DAY 24 HR 48HR 72 HR 5 DAYS 10 DAYS
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL / /
 SPECIAL INSTRUCTIONS:
Report to A. Padilla at Geomatrix, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
 PROJECT CONTACT: **James Dye**
 SAMPLER(S) (SIGNATURE): *[Signature]*

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MATERIAL	NO. OF CONT.	Comments
			DATE	TIME			
	INF-02-26	Influent Vapor to SVE	02-26-10	1145	Air	1	Monthly sample

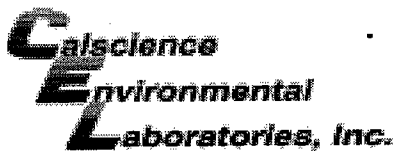
REQUESTED ANALYSIS

ASTM-1946 (O2/Argon, CO2, CH4) X
 TO-3 (TPH-g) X
 TO-15 X

LAB USE ONLY: 0 2 2 2 3 0

P.O. NO.:
 QUOTE NO.:

Received by: (Signature) *[Signature]* **Dannyle cel** Date: 2/26/10 Time: 17:00
 Received by: (Signature) Date: Time:
 Received by: (Signature) Date: Time:
 Revised: 07/23/09



WORK ORDER #: 10-02-2230

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: KMEP

DATE: 02/26/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature _____ °C + 0.5°C (CF) = _____ °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: DL

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: DL

Sample _____ No (Not Intact) Not Present Initial: DL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

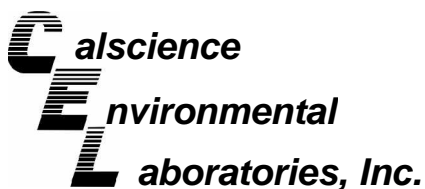
500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** DL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** YL

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** DL



April 02, 2010

Alex Padilla
AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Subject: **CalScience Work Order No.: 10-03-2099**
Client Reference: SFPP - Norwalk Site

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/26/2010 and analyzed in accordance with the attached chain-of-custody.

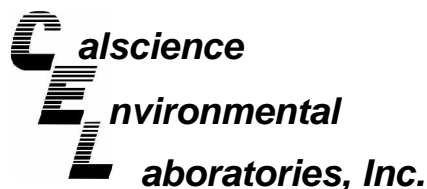
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nowak', is written over a white background.

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/26/10
Work Order No: 10-03-2099
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-26	10-03-2099-1-A	03/26/10 13:30	Air	GC 36	N/A	03/26/10 00:00	100326L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

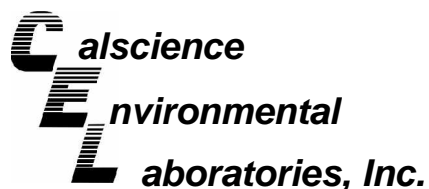
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.0981	1		Oxygen + Argon	20.2	0.500	0.370	1	
Carbon Dioxide	1.03	0.500	0.344	1							

Method Blank	099-03-002-1,021	N/A	Air	GC 36	N/A	03/26/10 00:00	100326L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.0981	1		Oxygen + Argon	ND	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/26/10
Work Order No: 10-03-2099
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-26	10-03-2099-1-A	03/26/10 13:30	Air	GC 13	N/A	03/26/10 13:43	100326L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	18	1.5	0.17	1		ppm (v/v)

Method Blank	098-01-005-2,172	N/A	Air	GC 13	N/A	03/26/10 07:39	100326L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	1.5	0.17	1		ppm (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/26/10
Work Order No: 10-03-2099
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-03-26	10-03-2099-1-A	03/26/10 13:30	Air	GC/MS AA	N/A	03/27/10 00:57	100326L01


Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-The method has been modified to use Tedlar bags instead of Summa Canisters.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	250	120	5		t-1,2-Dichloroethene	ND	2.5	0.93	5	
Benzene	380	2.5	0.47	5		t-1,3-Dichloropropene	ND	5.0	0.51	5	
Benzyl Chloride	ND	7.5	2.0	5		Ethylbenzene	20	2.5	0.57	5	
Bromodichloromethane	ND	2.5	0.51	5		4-Ethyltoluene	3.7	2.5	0.91	5	
Bromoform	ND	2.5	0.76	5		Hexachloro-1,3-Butadiene	ND	7.5	0.90	5	
Bromomethane	ND	2.5	0.46	5		2-Hexanone	ND	7.5	2.6	5	
2-Butanone	33	7.5	0.50	5		Methyl-t-Butyl Ether (MTBE)	4.6	10	0.59	5	J
Carbon Disulfide	ND	50	25	5		Methylene Chloride	1.9	25	0.94	5	B,J
Carbon Tetrachloride	ND	2.5	0.49	5		4-Methyl-2-Pentanone	ND	7.5	0.76	5	
Chlorobenzene	ND	2.5	0.54	5		o-Xylene	19	2.5	0.60	5	
Chloroethane	ND	2.5	0.77	5		p/m-Xylene	71	10	3.8	5	
Chloroform	ND	2.5	0.45	5		Styrene	ND	7.5	0.89	5	
Chloromethane	ND	2.5	0.49	5		Tetrachloroethene	ND	2.5	0.55	5	
Dibromochloromethane	ND	2.5	0.56	5		Toluene	110	25	10	5	
Dichlorodifluoromethane	ND	2.5	0.72	5		Trichloroethene	3.8	2.5	0.53	5	
1,1-Dichloroethane	ND	2.5	0.51	5		Trichlorofluoromethane	ND	5.0	0.39	5	
1,1-Dichloroethene	ND	2.5	0.55	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	0.50	5	
1,2-Dibromoethane	ND	2.5	0.56	5		1,1,1-Trichloroethane	ND	2.5	0.50	5	
Dichlorotetrafluoroethane	ND	10	0.55	5		1,1,2-Trichloroethane	ND	2.5	0.61	5	
1,2-Dichlorobenzene	ND	2.5	0.55	5		1,3,5-Trimethylbenzene	3.8	2.5	0.84	5	
1,2-Dichloroethane	ND	2.5	0.47	5		1,1,2,2-Tetrachloroethane	ND	5.0	0.53	5	
1,2-Dichloropropane	ND	2.5	0.57	5		1,2,4-Trimethylbenzene	7.5	7.5	1.6	5	J
1,3-Dichlorobenzene	ND	2.5	0.65	5		1,2,4-Trichlorobenzene	ND	10	3.6	5	
1,4-Dichlorobenzene	ND	2.5	0.67	5		Vinyl Acetate	ND	10	2.3	5	
c-1,3-Dichloropropene	ND	2.5	0.70	5		Vinyl Chloride	ND	2.5	0.50	5	
c-1,2-Dichloroethene	ND	2.5	0.66	5							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
1,4-Bromofluorobenzene	100	57-129		1,2-Dichloroethane-d4	105	47-137	
Toluene-d8	102	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: 03/26/10
Work Order No: 10-03-2099
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-981-445	N/A	Air	GC/MS AA	N/A	03/26/10 14:12	100326L01

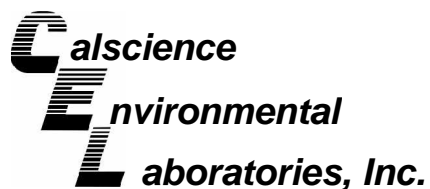
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	25	1		t-1,2-Dichloroethene	ND	0.50	0.19	1	
Benzene	ND	0.50	0.094	1		t-1,3-Dichloropropene	ND	1.0	0.10	1	
Benzyl Chloride	ND	1.5	0.39	1		Ethylbenzene	ND	0.50	0.11	1	
Bromodichloromethane	ND	0.50	0.10	1		4-Ethyltoluene	ND	0.50	0.18	1	
Bromoform	ND	0.50	0.15	1		Hexachloro-1,3-Butadiene	ND	1.5	0.18	1	
Bromomethane	ND	0.50	0.093	1		2-Hexanone	ND	1.5	0.52	1	
2-Butanone	ND	1.5	0.099	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.12	1	
Carbon Disulfide	ND	10	5.0	1		Methylene Chloride	0.33	5.0	0.19	1	J
Carbon Tetrachloride	ND	0.50	0.098	1		4-Methyl-2-Pentanone	ND	1.5	0.15	1	
Chlorobenzene	ND	0.50	0.11	1		o-Xylene	ND	0.50	0.12	1	
Chloroethane	ND	0.50	0.15	1		p/m-Xylene	ND	2.0	0.76	1	
Chloroform	ND	0.50	0.090	1		Styrene	ND	1.5	0.18	1	
Chloromethane	ND	0.50	0.098	1		Tetrachloroethene	ND	0.50	0.11	1	
Dibromochloromethane	ND	0.50	0.11	1		Toluene	ND	5.0	2.0	1	
Dichlorodifluoromethane	ND	0.50	0.14	1		Trichloroethene	ND	0.50	0.11	1	
1,1-Dichloroethane	ND	0.50	0.10	1		Trichlorofluoromethane	ND	1.0	0.077	1	
1,1-Dichloroethene	ND	0.50	0.11	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	0.10	1	
1,2-Dibromoethane	ND	0.50	0.11	1		1,1,1-Trichloroethane	ND	0.50	0.10	1	
Dichlorotetrafluoroethane	ND	2.0	0.11	1		1,1,2-Trichloroethane	ND	0.50	0.12	1	
1,2-Dichlorobenzene	ND	0.50	0.11	1		1,3,5-Trimethylbenzene	ND	0.50	0.17	1	
1,2-Dichloroethane	ND	0.50	0.095	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.11	1	
1,2-Dichloropropane	ND	0.50	0.11	1		1,2,4-Trimethylbenzene	ND	1.5	0.33	1	
1,3-Dichlorobenzene	ND	0.50	0.13	1		1,2,4-Trichlorobenzene	ND	2.0	0.72	1	
1,4-Dichlorobenzene	ND	0.50	0.13	1		Vinyl Acetate	ND	2.0	0.45	1	
c-1,3-Dichloropropene	ND	0.50	0.14	1		Vinyl Chloride	ND	0.50	0.10	1	
c-1,2-Dichloroethene	ND	0.50	0.13	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
1,4-Bromofluorobenzene	95	57-129		1,2-Dichloroethane-d4	111	47-137	
Toluene-d8	101	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

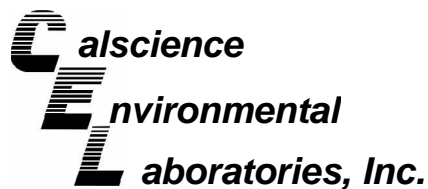
Date Received: 03/26/10
Work Order No: 10-03-2099
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
INF-03-26	Air	GC 13	N/A	03/26/10	100326D01

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	18	18	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

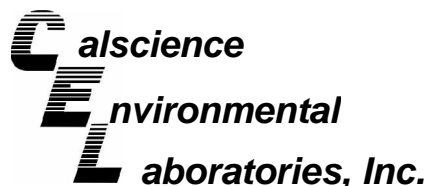
Date Received: N/A
Work Order No: 10-03-2099
Preparation: N/A
Method: ASTM D-1946

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,021	Air	GC 36	N/A	03/26/10	100326L01

<u>Parameter</u>	<u>LCS Conc</u>	<u>LCSD Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon Dioxide	5.225	5.251	0	0-30	
Oxygen + Argon	19.45	19.51	0	0-30	
Nitrogen	73.25	73.48	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



AMEC Geomatrix, Inc.
510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

Date Received: N/A
Work Order No: 10-03-2099
Preparation: N/A
Method: EPA TO-15M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-981-445	Air	GC/MS AA	N/A	03/26/10	100326L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	86	101	60-156	44-172	16	0-40	
Carbon Tetrachloride	86	105	64-154	49-169	21	0-32	
1,2-Dibromoethane	93	108	54-144	39-159	15	0-36	
1,2-Dichlorobenzene	87	105	34-160	13-181	19	0-47	
1,2-Dichloroethane	91	103	69-153	55-167	12	0-30	
1,2-Dichloropropane	89	103	67-157	52-172	14	0-35	
1,4-Dichlorobenzene	87	104	36-156	16-176	17	0-47	
c-1,3-Dichloropropene	102	121	61-157	45-173	18	0-35	
Ethylbenzene	95	112	52-154	35-171	16	0-38	
o-Xylene	96	113	52-148	36-164	16	0-38	
p/m-Xylene	90	105	42-156	23-175	15	0-41	
Tetrachloroethene	89	104	56-152	40-168	15	0-40	
Toluene	92	106	56-146	41-161	15	0-43	
Trichloroethene	91	107	63-159	47-175	16	0-34	
1,1,2-Trichloroethane	89	106	65-149	51-163	18	0-37	
Vinyl Chloride	89	92	45-177	23-199	4	0-36	

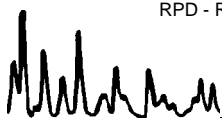
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Glossary of Terms and Qualifiers






Work Order Number: 10-03-2099

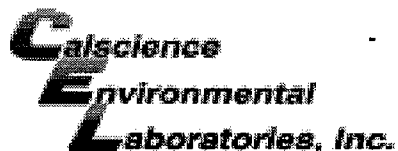
<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



CHAIN OF CUSTODY RECORD
 DATE: 03/26/10
 PAGE: 1 OF 1

7440 LINCOLN WAY
 GARDEN GROVE, CA 92841-1432
 TEL: (714) 895-5494 . FAX: (714) 894-7501

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Definbough ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS Report to A. Padilla at Geomatrix, cc: KMEP Direct Bill KMEP/SFPP - Steve Definbough-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S), (SIGNATURE): 		P.O. NO.: QUOTE NO.: LAB USE ONLY 0320919	
REQUESTED ANALYSIS TO-15 X TO-3 (TPH-g) X ASTM-1946 (O2/Argon, CO2, CH4) X			COMMENTS Monthly sample		
SAMPLE ID 1 INF-03-26		LOCATION/ DESCRIPTION Influent Vapor to SVE		SAMPLING DATE: 03/26/10 TIME: 1330	
MAT- RIX Air		NO. OF CONT. 1			
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 03/26/10 Time: 1340	
Relinquished by: (Signature)		Received by: (Signature)		Date: Time:	
Relinquished by: (Signature)		Received by: (Signature)		Date: Time:	



WORK ORDER #: 10-03-2099

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: Geomatrix

DATE: 03/26/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature ____ °C + 0.5 °C (CF) = ____ °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: MC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: MC

Sample _____ No (Not Intact) Not Present Initial: PL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** PL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** PL

Preservative: h: HCL n: HNO3 na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** PL