



**REMEDIATION PROGRESS REPORT
FOURTH QUARTER 2009 AND ANNUAL 2009 SUMMARY**
DEFENSE FUEL SUPPORT POINT NORWALK
NORWALK, CALIFORNIA

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This report was prepared by the staff of AMEC Geomatrix under the supervision of the Engineer and/or Geologist whose signature appears hereon.

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TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	REMEDICATION SYSTEMS.....	1
3.0	OPERATIONS AND MAINTENANCE.....	2
4.0	SUMMARY OF REMEDIATION PROGRESS	5
5.0	SYSTEM EVALUATION AND OPTIMIZATION	6
6.0	PLANNED FIRST QUARTER 2010 ACTIVITIES	7
7.0	REFERENCES	8

TABLES

Table 1	Remediation Well Construction and Status
Table 2	Vapor Remediation System Operation Summary
Table 3	Groundwater Remediation System Operation Summary
Table 4	Extracted Vapor Analytical Results
Table 5	Extracted Groundwater Analytical Results
Table 6	Remediation Well Vapor Concentrations
Table 7	Groundwater and Product Measurements and Elevations

FIGURES

Figure 1	Site Location Map
Figure 2	Remediation System Layout

APPENDIXES

Appendix A	Summary of System Shutdowns in 2009
Appendix B	Laboratory Analytical Reports

**REMEDATION PROGRESS REPORT
FOURTH QUARTER 2009 AND ANNUAL 2009 SUMMARY
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 fourth quarter 2009 reporting period. This report also summarizes remediation activities described in previously submitted first, second, and third quarter 2009 progress reports (AMEC, 2009a; AMEC, 2009b; AMEC, 2009c) to produce a combined fourth quarter 2009 and annual 2009 progress report. 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 and quarterly and annual summary remediation progress 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 December 2009 with documentation of the following tasks:

- operations and maintenance (O&M) of remediation systems performed by Envent Corporation (Envent) on behalf of SFPP during January through July 2009 and by SFPP field personnel during August through December 2009; and
- remediation system evaluation and optimization.

The remediation activities performed during 2009 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 8000-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 each quarter in 2009.

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);

- 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 2009 are summarized in Tables 2 and 3. The remediation systems operated continuously during 2009 with some exceptions as described below and in previously submitted quarterly progress reports for 2009. During fourth quarter 2009, the remediation systems shut down for the following reasons.

- The SVE system shut down due to an oxidizer fault on October 14, 2009. The SVE system was left shut down to facilitate groundwater monitoring and was restarted on October 27, 2009 after completing the second semi-annual 2009 groundwater monitoring event.
- The TFE/GWE system shut down with no alarms on October 14, October 16, and November 30, 2009 and was restarted on October 16, October 19, and November 30, 2009, respectively.
- The TFE/GWE system was shut down on November 6, 2009 to facilitate quarterly groundwater gauging in several extraction wells as a part of the semi-annual groundwater monitoring event. The TFE/GWE system was restarted on November 9, 2009.
- The SVE system shut down some time between November 6 and November 10, 2009 due to a burnt out motor starter. The motor starter was repaired and the SVE system was restarted on November 19, 2009.
- The TFE/GWE system was shut down on November 30, 2009 to evaluate selenium concentrations in the extraction wells. The system remained shut down at the end of fourth quarter 2009 and will be restarted when the evaluation is completed, anticipated to be during January 2010.
- The SVE system shut down with no alarms on December 7, 2009 and was restarted on December 8, 2009. The SVE system shut down again on December 9, 2009 due to a blown fuse. The fuse was replaced and the SVE system was restarted on December 10, 2009.
- The SVE system shut down with no alarms on December 27, 2009 and was restarted on December 28, 2009.

The 2008 air compressor, which operates pumps in wells MW-SF-2, MW-SF-3, MW SF 6, MW-SF-12, MW-SF-13, MW-SF-14, MW-SF-15, MW-SF-16, GMW-O-20, and GMW-O-21 in

the south-central area, shut down on September 18, 2009 and was repaired during September and October 2009 before being returned to service on October 13, 2009. The 2008 compressor shut down again on November 25, 2009 due to a broken starter switch. The switch was replaced and the 2008 compressor was restarted on December 1, 2009. The 2007 air compressor shut down on November 10, 2009 due to a broken motor starter. The motor starter was replaced on November 11, 2009 and the 2007 air compressor was restarted.

As described in the previous progress report, the TFE pump in GMW-O-15 apparently had not been re-installed in this well after having been removed for the April 2009 groundwater monitoring event. SFPP notified the RWQCB of this finding on October 12, 2009, replaced the affected flowmeter on October 6, 2009, and resumed groundwater extraction from GMW-O-15 on October 28, 2009 following completion of the second semi-annual 2009 groundwater monitoring event.

In general, the remediation systems operated continuously except when they were shut down for scheduled events (i.e., rebound tests, groundwater monitoring, routine system maintenance) or for troubleshooting equipment or electrical issues. A list of system shutdowns that occurred in 2009 is included in Appendix A.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during 2009 on an approximate monthly basis when the systems were in operation. During fourth quarter 2009, influent vapor samples were collected in October and November 2009 when both SVE and TFE/GWE systems were operating and in December 2009 when only the SVE system was operating. Influent water samples were collected in October and November 2009 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 B.

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 2,119 pounds during the fourth quarter of 2009, for an annual total of approximately 10,860 pounds during 2009 and a cumulative mass removed of approximately 15,631 pounds since implementing the Second Addendum system upgrades in 2007. The cumulative mass removed by SVE does not include the mass removed by biodegradation.

Approximately 870,154 gallons of groundwater were extracted during the fourth quarter 2009. This total includes approximately 865,660 gallons of water from the south-central area and 4,494 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 2009. The total volume of groundwater extracted during 2009 was approximately 8.8 million gallons, for a cumulative total of approximately 18.5 million gallons of groundwater extracted since implementing the Second Addendum system upgrades in 2007.

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 fourth quarter 2009. 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 14 pounds during fourth quarter 2009 for an annual total of approximately 161 pounds and a cumulative mass removed from these areas of approximately 867 pounds since implementing system upgrades described in the Second Addendum. 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 fourth quarter 2009, 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 fourth quarter 2009 is also shown on Table 6. Because the SVE system operated intermittently during fourth quarter 2009 and PID readings recorded during fourth quarter 2009 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 fourth quarter 2009, free product was detected in seven 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 currently active wells 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 Section 3.0 of this report and in the First Quarter 2009 Remediation Progress Report (AMEC, 2009a).

6.0 PLANNED FIRST QUARTER 2010 ACTIVITIES

During the first 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 and GWE system for the south-central and southeastern areas will be restarted with a limited number of wells operating to facilitate management of the concentration of selenium in the treatment system effluent. 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 first quarter 2010 will be described in the first quarter 2010 remediation progress report to be submitted by April 15, 2010.

7.0 REFERENCES

AMEC, 2009a, Remediation Progress Report, First Quarter 2009, April 15.

AMEC, 2009b, Remediation Progress Report, Second Quarter 2009, July 15.

AMEC, 2009c, Remediation Progress Report, Third Quarter 2009, October 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.

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 2009 ¹	Well Operation Status at End of Second Quarter 2009	Well Operation Status at End of Third Quarter 2009	Well Operation Status at End of Fourth Quarter 2009
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	ON	OFF	OFF	OFF
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	ON; ON	OFF; OFF	ON; OFF	OFF; OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON; OFF	ON; OFF	ON; OFF	ON; OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	ON	ON	ON	ON
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	ON	OFF	OFF	OFF
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	ON; ON	ON; ON	ON; OFF	OFF; OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF	OFF	OFF	OFF
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	ON	ON	ON	OFF
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF; OFF	OFF; OFF	OFF; ON	OFF; OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON; ON	ON; ON	ON; OFF	OFF; OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON; ON	ON; OFF	ON; OFF	OFF; OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON; ON	ON; OFF	ON; OFF	OFF; OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	ON; ON	ON; OFF	ON; OFF	ON; OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON; ON	ON; OFF	ON; OFF	ON; OFF
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	ON; OFF	ON; OFF	ON; ON	OFF; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON	ON	ON	ON
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	ON; ON	ON; ON	ON; ON	OFF; OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	ON; OFF	ON; OFF	ON; ON	OFF; OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	ON; ON	ON; ON	ON; ON	OFF; OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	OFF; ON	ON; ON	ON; ON	ON; OFF
	VEW-1	--	--	--	SVE	OFF	ON	ON	OFF
	VEW-2	--	--	--	SVE	ON	ON	ON	ON
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	OFF; OFF	ON; OFF	ON; OFF	OFF; OFF
MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	OFF; ON	ON; ON	ON; ON	OFF; OFF	
GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	OFF; ON	OFF; ON	OFF; ON	OFF; OFF	
GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	OFF	OFF	ON	
GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON; OFF	ON; OFF	ON; OFF	ON; OFF	
GMW-O-21	10/1/1997	71.43	26 - 46	TFE	ON	OFF	OFF	OFF	
GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON; OFF	OFF; OFF	ON; OFF	OFF; OFF	
MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	ON	OFF	OFF	OFF	
HW-2	--	--	--	SVE	ON	OFF	ON	OFF	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON; ON	ON; OFF	ON; OFF	OFF; OFF
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE	ON	ON	ON	OFF
	GMW-36	4/11/1994	74.53	20 - 50	TFE	ON	OFF	ON	OFF
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	OFF	OFF	OFF	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	OFF	OFF	OFF	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	OFF	OFF	OFF	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	OFF	OFF	OFF	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	OFF	OFF	OFF	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	OFF	OFF	OFF	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	OFF	OFF	OFF	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	OFF	OFF	OFF	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	OFF	OFF	OFF	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	OFF	OFF	OFF	OFF

Notes

1. The well operations listed correspond to the well functions indicated in the previous column. Based on information provided by Envent Corporation and 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
01/20/09	64,233.2	0.0	--	1,120	1,672	19	--
02/03/09	64,379.1	145.9	--	112	1,530	28	375
02/10/09	64,548.6	169.5	--	215	1,601	34	876
02/17/09	64,713.2	164.6	--	203	1,571	32	788
02/24/09	64,832.8	119.6	--	64	1,537	40	177
03/03/09	64,935.7	102.9	--	195	1,592	40	479
03/06/09	64,963.8	28.1	83	--	--	42	--
03/11/09	65,097.7	133.9	--	171	1,488	50	618
03/14/09	65,153.8	56.1	--	169	1,496	49	213
03/17/09	65,157.5	3.7	--	144	1,604	32	13
03/24/09	65,329.8	172.3	--	82	1,521	38	322
03/31/09	65,495.9	166.1	--	160	1,569	46	626
First Quarter 2009 Totals	65,496	1,263	--	--	--	--	4,487
04/07/09	65,590.0	94.1	--	162	1,481	45	339
04/16/09	65,681.4	91.4	3.1	162	1,481	45	329
05/29/09	65,682.0	0.6	130	1,330	1,631	32	20
06/02/09	65,753.7	71.7	--	140	1,546	32	233
06/09/09	65,877.2	123.5	--	160	1,571	27	466
06/16/09	65,955.3	78.1	--	145	1,484	52	252
06/23/09	66,107.9	152.6	--	149	1,487	50	507
06/30/09	66,178.7	70.8	--	109	1,494	48	173
Second Quarter 2009 Totals	66,179	683	--	--	--	--	2,319
07/07/09	66,307.4	128.7	--	27	1,519	34	79
07/14/09	66,475.8	168.4	--	76	1,511	45	289
07/21/09	66,635.2	159.4	--	113	1,465	45	396
07/28/09	66,802.9	167.7	--	220	1,496	39	829
08/04/09	66,877.9	75.0	--	13.5	979	36	15
08/11/09	66,918.4	40.5	--	11	998	40	7
08/18/09	66,947.8	29.4	28	11	987	34	5
08/21/09	66,975.2	27.4	--	31.3	1,010	38	13
08/25/09	66,977.4	2.2	37	31	986	36	1
09/01/09	66,979.9	2.5	--	32	968	32	1
09/08/09	67,038.1	58.2	--	--	--	--	0
09/15/09	67,137.6	99.5	11	74	814	32	89
09/22/09	67,257.7	120.1	--	34	846	32	51
09/29/09	67,370.0	112.3	--	75	1,267	60	160
Third Quarter 2009 Totals	67,370	1,191	--	--	--	--	1,936
10/06/09	67,537.2	167.2	--	37	994	30	198
10/13/09	67,706.1	168.9	--	59	955	25	165
10/27/09	67,722.6	16.5	77 ⁴	29	964	30	198
11/03/09	67,888.7	166.1	--	7	986	35	231
11/19/09	68,034.9	146.2	--	66	526	30	198
11/25/09	68,138.8	103.9	14.0	24	617	30	198
12/02/09	68,309.6	170.8	--	16	1,088	40	264
12/08/09	68,435.4	125.8	--	18.6	1,090	41	271
12/15/09	68,555.3	119.9	7	38	453	30	198
12/22/09	68,721.7	166.4	--	40	417	30	198
Fourth Quarter 2009 Totals	--	1,352	--	--	--	--	2,119
2009 Totals	--	4,489	--	--	--	--	10,860
Cumulative Mass Removed Since Implementation of RAP Upgrades⁵							15,631

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 October 29, 2009. All other influent vapor samples were collected on the dates indicated above.
- Upgrades to the South-Central system are described in the Second Addendum to Remedial Action Plan.

Data reported based on information provided by Envent Corporation and 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
01/06/09	260,401	15,448	0	1,500	3.45
01/13/09	200,107	25,994	0	1,500	2.83
01/20/09	90,626	12,720	0	1,500	1.29
01/27/09	343,448	38,227	0	1,500	4.77
02/03/09	288,015	29,451	0	1,500	3.97
02/10/09	0	0	0	1,500	0.00
02/17/09	360	5	0	1,500	0.00
02/24/09	18	0	0	1,500	0.00
03/03/09	7,615	2	0	1,500	0.10
03/06/09	158,100	2	0	2,500	3.29
03/11/09	76,985	0	0	2,500	1.60
03/17/09	280,279	13,729	0	2,500	6.13
03/20/09	185,322	16,072	0	2,500	4.20
03/24/09	268,868	22,549	0	2,500	6.07
03/27/09	126,581	16,916	0	2,500	2.99
03/31/09	194,991	24,762	0	2,500	4.58
First Quarter 2009 Totals	2,481,716	215,877	0	--	45
04/03/09	134,485	16,725	0	2,500	3.15
04/07/09	161,662	21,188	0	3,100	4.72
04/10/09	140,787	17,949	0	3,100	4.10
04/17/09	155,346	36,824	0	3,100	4.97
05/05/09	13	0	0	3,100	0.00
05/08/09	66,300	19,620	0	3,100	2.22
05/13/09	127,582	36,509	0	690	0.94
05/19/09	155,586	42,720	0	690	1.14
05/22/09	66,488	21,450	0	690	0.51
05/26/09	77,280	28,440	0	690	0.61
05/29/09	115,361	25,867	0	690	0.81
06/02/09	177,516	21,373	0	690	1.14
06/05/09	131,736	19,079	0	690	0.87
06/09/09	91,724	80,858	0	690	0.99
06/12/09	85,173	32,933	0	150	0.15
06/16/09	134,047	6,461	0	150	0.18
06/19/09	85,875	9,158	0	150	0.12
06/23/09	108,527	6,952	0	150	0.14
06/26/09	83,676	9,573	0	150	0.12
06/30/09	109,212	580	0	150	0.14
Second Quarter 2009 Totals	2,367,848	486,274	0	--	32
07/01/09	17,014	0	0	150	0.02
07/07/09	73,379	0	0	150	0.09
07/10/09	133,891	32,031	0	4,500	6.22
07/14/09	217,563	21,929	0	4,500	8.98
07/17/09	150,216	4,749	0	4,500	5.81
07/21/09	165,919	231	0	4,500	6.23
07/23/09	99,490	13	0	4,500	3.73
07/28/09	250,060	560	0	4,500	9.40
07/31/09	151,396	501	0	4,500	5.70
08/04/09	186,602	1,565	0	2,000	3.14
08/07/09	135,845	1,283	0	2,000	2.29
08/11/09	36,405	128	0	2,000	0.61
08/14/09	129,935	837	0	2,000	2.18
08/18/09	62,533	72	0	2,000	1.04
08/21/09	130,158	321	0	2,000	2.18
08/25/09	121,566	2	0	2,000	2.03
08/28/09	0	2	0	2,000	0.00
09/01/09	14	0	0	4,800	0.00



**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
09/04/09	75,620	0	0	4,800	3.03
09/08/09	17,933	0	0	4,800	0.72
09/11/09	23,731	0	0	4,800	0.95
09/15/09	12,515	0	0	4,800	0.50
09/18/09	26,100	0	0	4,800	1.04
09/22/09	38,296	0	0	4,800	1.53
09/25/09	27,038	0	0	4,800	1.08
09/29/09	46,393	0	0	4,800	1.86
Third Quarter 2009 Totals	2,329,612	64,224	0	--	70
10/02/09	31,613	81	0	4,800	1.27
10/06/09	43,196	120	0	3,900	1.41
10/09/09	31,412	32	0	3,900	1.02
10/13/09	42,834	19	0	3,900	1.39
10/16/09	10,307	2	0	3,900	0.34
10/20/09	26,123	70	0	3,900	0.85
10/23/09	98,470	204	0	3,900	3.21
10/27/09	131,319	2,916	0	1,000	1.12
10/29/09	53,164	158	0	1,000	0.44
11/03/09	166,805	498	0	120	0.17
11/06/09	19,441	293	0	120	0.02
11/10/09	22,735	29	0	120	0.02
11/13/09	68,777	62	0	120	0.07
11/17/09	50,680	2	0	120	0.05
11/19/09	18,961	0	0	120	0.02
11/25/09	49,580	0	0	5,700	2.36
11/30/09 ⁵	243	8	0	5,700	0.01
12/01/09	0	0	0	5,700	0.00
12/02/09	0	0	0	5,700	0.00
12/03/09	0	0	0	--	--
Fourth Quarter 2009 Totals	865,660	4,494	0	--	14
2009 Totals	8,044,836	770,869	0	--	161
Cumulative TPHg Removed Since Implementation of RAP Upgrades⁶					867

Notes:

- 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.
- 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.
- The 2007 total includes only operation after upgrades were made to the South-Central system.
- Groundwater removal in the West Side Barrier Area was discontinued in August, 2008.
- The groundwater remediation system was shut down on November 30, 2009 to evaluate selenium concentrations in the extraction wells.
- Upgrades to the South-Central remediation system are described in the Second Addendum to Remedial Action Plan.

Data reported based on information provided by Envent Corporation and 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

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	26.0	13	48.0	88

Notes:

1. Influent samples were collected from the manifold conveying groundwater extracted from the south-central and southeastern areas.
2. Other detected VOCs are included in the laboratory analytical reports in Appendix A.
3. 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
REMEDATION 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 Fourth Quarter 2009 ²	1/20/2009 (ppmv as hexane) ^{3,4}	1/20/2009 (ppmv as hexane)	1/20/2009 (ppmv as hexane)	2/3/2009 (ppmv as hexane)	2/13/2009 (ppmv as hexane)	2/28/2009 (ppmv as hexane)	3/14/2009 (ppmv as hexane)	3/27/2009 (ppmv as hexane)	4/10/2009 (ppmv as hexane)	5/8/2009 (ppmv as hexane)	5/19/2009 (ppmv as hexane)
South-Central	MW-SF-1	SVE	OFF	130	420	429	19	25	38.3	24.3	26.5	23.5	430	205
	MW-SF-2	SVE; TFE	OFF; OFF	3120	2730	2560	102	17	6.5	50.5	21.3	20.1	75	413
	MW-SF-3	SVE; TFE	ON; OFF	8320	5654	2780	131	305	50.1	85.3	157	147	3860	1110
	MW-SF-4	SVE	ON	1411	1011	12000	142	132	58.3	215	134	66.8	1870	41500
	MW-SF-5	SVE	OFF	53.5	80.5	56.5	22	14	32.5	38.1	11.3	12.7	16.1	19.1
	MW-SF-6	SVE; TFE	OFF; OFF	320	621	87.4	29	67	16.4	12.1	39.1	22.4	NM	315
	MW-SF-9	SVE	OFF	80.5	86.5	45.6	36	21	23.2	19.8	6.3	24.5	10.3	160
	MW-SF-10	SVE	OFF	22.8	22.4	42.5	64	32	31.2	10.2	12.3	51.3	180	10.3
	MW-SF-11	SVE; TFE	OFF; OFF	421	133	122	52	6	20.2	15.9	NM	11.3	NM	22.6
	MW-SF-12	SVE; TFE	OFF; OFF	320	1270	2120	25	18	56.5	16.1	14.8	11.6	NM	118
	MW-SF-13	SVE; TFE	OFF; OFF	530	491	380	68	33	27.6	650	224	403	3963	4380
	MW-SF-14	SVE; TFE	OFF; OFF	863	286	410	9	24	34.5	16.5	12.1	18.5	411	97
	MW-SF-15	SVE; TFE	ON; OFF	29000	25000	18000	718	1122	455	NM	1330	1820	3192	3960
	MW-SF-16	SVE; TFE	ON; OFF	1551	2407	2265	963	532	402	470	421	532	287	NM
	GMW-9	SVE; TFE	OFF; OFF	94.9	81.2	92.5	24	22	11.7	19.1	18.4	15.3	NM	90.2
	GMW-10	SVE	ON	166	122	34.5	1440	2030	61.2	623	1520	423	NM	240
	GMW-22	SVE; TFE	OFF; OFF	94.9	81.2	92.5	24	22	11.7	19.1	18.4	15.3	NM	415
	GMW-24	SVE; TFE	OFF; OFF	32.3	35.5	36.2	93	45	50.8	59.3	79.3	56.8	NM	13.4
	GMW-25	SVE; GWE	OFF; OFF	32.3	35.5	36.2	93	45	50.8	59.3	79.3	56.8	NM	29.2
	GWR-3	SVE; GWE	ON; OFF	711	514	650	1086	402	694	482	NM	644	NM	12000
	VEW-1	SVE	OFF	63.2	128	70.1	12	NM ⁵	7.5	12.3	NM	NM	NM	50.2
	VEW-2	SVE	ON	1340	1938	1287	126	61	161	73.9	65.3	767	410	NM
	MW-O-1	SVE; TFE	OFF; OFF	33.5	38.5	108	15	12	5.4	7.4	8.3	8.6	NM	84.4
	MW-O-2	SVE; TFE	OFF; OFF	325	211	130	56	8	8.6	33.2	4.9	62.1	NM	6.3
	GMW-O-11	SVE; TFE	OFF; OFF	172	208	158	51	17	6.3	32.5	8.8	118	NM	415
	GMW-O-12	SVE	ON	43.1	51.4	36.1	128	124	63.2	435	421	384	NM	60.3
GMW-O-20	SVE; TFE	ON; OFF	780	650	520	52	35	19.2	115	69.2	78.5	NM	31.2	
GMW-O-23	SVE; TFE	OFF; OFF	65.2	88.6	45.3	13	17	21.5	6.3	13.8	7.8	NM	20.2	
MW-18 (MID)	SVE	OFF	68.5	76.5	32.9	8	14	36.8	17.2	19.8	6.5	18.5	NM	
HW-2	SVE	OFF	1120	1030	795	44	9	NM	NM	146	24.5	NM	42.3	
Southeastern	GMW-O-15	SVE; TFE	OFF; OFF	465	432	513	240	450	54.2	515	355	528	NM	124
	GMW-O-18	SVE	OFF	465	432	513	240	450	54.2	515	355	528	NM	7.75

Notes:

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

Data reported based on information provided by Envent Corporation and 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 6
REMEDATION 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 Fourth Quarter 2009 ²	5/29/2009	6/12/2009	6/26/2009	8/4/2009	9/29/2009	10/13/2009	10/29/2009	11/19/2009	12/8/2009
				(ppmv as hexane)	(ppmv as hexane)	(ppmv as hexane)	(ppmv as hexane)	(ppmv as hexane)	(ppmv as Hexane)	(ppmv as Hexane)	(ppmv as Hexane)	(ppmv as Hexane)
South-Central	MW-SF-1	SVE	OFF	149	114	33.8	NM	NM	27	377	94	24.2
	MW-SF-2	SVE; TFE	OFF; OFF	92	24	23.1	21	24.8	49	386	90	6.6
	MW-SF-3	SVE; TFE	ON; OFF	3014	520	243	9	34.4	131	222	182	111.8
	MW-SF-4	SVE	ON	712	153	504	9	43	81	94	401	97
	MW-SF-5	SVE	OFF	37	11	15.7	NM	NM	13	31	76	29.4
	MW-SF-6	SVE; TFE	OFF; OFF	249	84	77.8	56	42.8	50	34	188	20.4
	MW-SF-9	SVE	OFF	41	39	9.5	NM	NM	26	20	1	8.7
	MW-SF-10	SVE	OFF	15	54	22.8	1	5.3	11	5	4	5.6
	MW-SF-11	SVE; TFE	OFF; OFF	39	20	8.2	1	89.9	7	3	10	20.5
	MW-SF-12	SVE; TFE	OFF; OFF	26	27	101	2	14.5	31	203	NM	1.3
	MW-SF-13	SVE; TFE	OFF; OFF	593	252	90.5	9	101.5	63	286	297	3.1
	MW-SF-14	SVE; TFE	OFF; OFF	59	44	643	2	39.9	22	60	95	1.6
	MW-SF-15	SVE; TFE	ON; OFF	22000	2084	1172	130	2951	5	9	776	239.8
	MW-SF-16	SVE; TFE	ON; OFF	1191	826	662	63	98	220	196	267	248.3
	GMW-9	SVE; TFE	OFF; OFF	1607	56	164	8	367	34	40	NM	24.1
	GMW-10	SVE	ON	229	65	55.6	3	361	215	401	122	224.1
	GMW-22	SVE; TFE	OFF; OFF	1607	56	164	8	367	34	40	NM	24.1
	GMW-24	SVE; TFE	OFF; OFF	2608	206	153	5	54.4	6	24	89	6
	GMW-25	SVE; GWE	OFF; OFF	2608	206	153	5	54.4	6	24	89	6
	GWR-3	SVE; GWE	ON; OFF	11500	2642	664	3	50.2	67	211	231	90.1
	VEW-1	SVE	OFF	18	NM	NM	2.2	11.1	19.5	NM	NM	13.8
	VEW-2	SVE	ON	1020	437	112	5	51.6	152	434	291	62.8
	MW-O-1	SVE; TFE	OFF; OFF	NM	NM	NM	1	6.8	11	NM	NM	8.2
	MW-O-2	SVE; TFE	OFF; OFF	NM	37	63.8	1	95.7	17	4	5	3.2
	GMW-O-11	SVE; TFE	OFF; OFF	72	42	13.9	NM	NM	17	7	278	39.3
	GMW-O-12	SVE	ON	72	441	8.7	NM	NM	157	89	90	65.6
	GMW-O-20	SVE; TFE	ON; OFF	1772	242	111	9	262	53	64	NM	51.3
	GMW-O-23	SVE; TFE	OFF; OFF	51	22	35.4	4	17.7	13	188	86	2.3
	MW-18 (MID)	SVE	OFF	27	10	16.4	NM	NM	7	3	77	1.3
	HW-2	SVE	OFF	503	55	41.2	1	16.7	17	63	240	5.2
Southeastern	GMW-O-15	SVE; TFE	OFF; OFF	NM	NM	NM	0	32.7	5	3	66	1
	GMW-O-18	SVE	OFF	NM	NM	NM	0	32.7	5	3	66	1

Notes:

- The well operations listed correspond to the well functions indicated in the previous table.
- Vapor readings measured in the field with a Photo Ionization Detector calibrated to hexane.

Data reported based on information provided by Envent Corporation and 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
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
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



**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-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	
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
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	
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



**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-20	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
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



**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-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
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	---
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
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



**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	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
	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
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



**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-12	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
	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
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	
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	

**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-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

Notes:

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

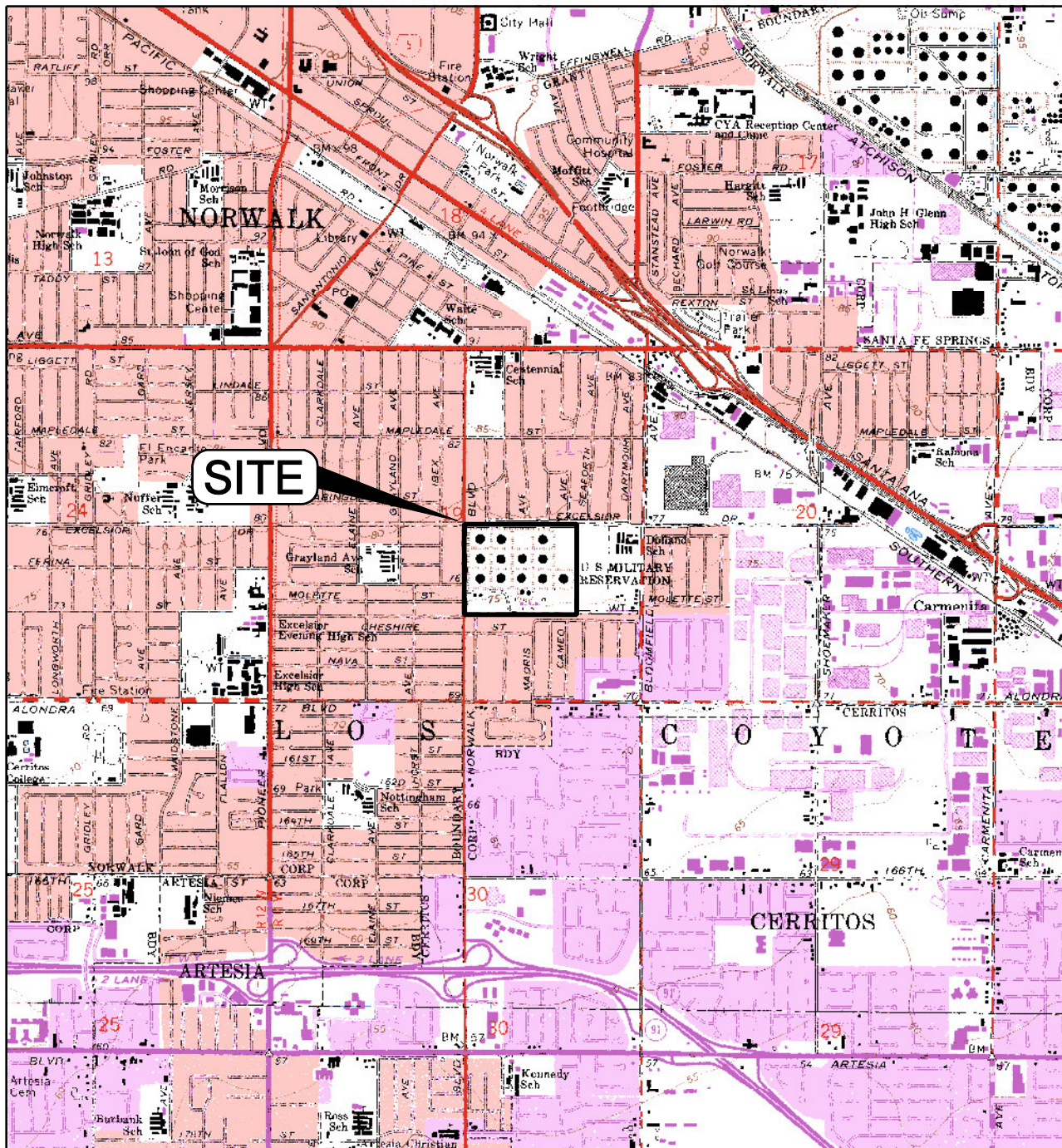
Abbreviations:

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.

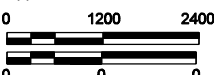
FIGURES



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**

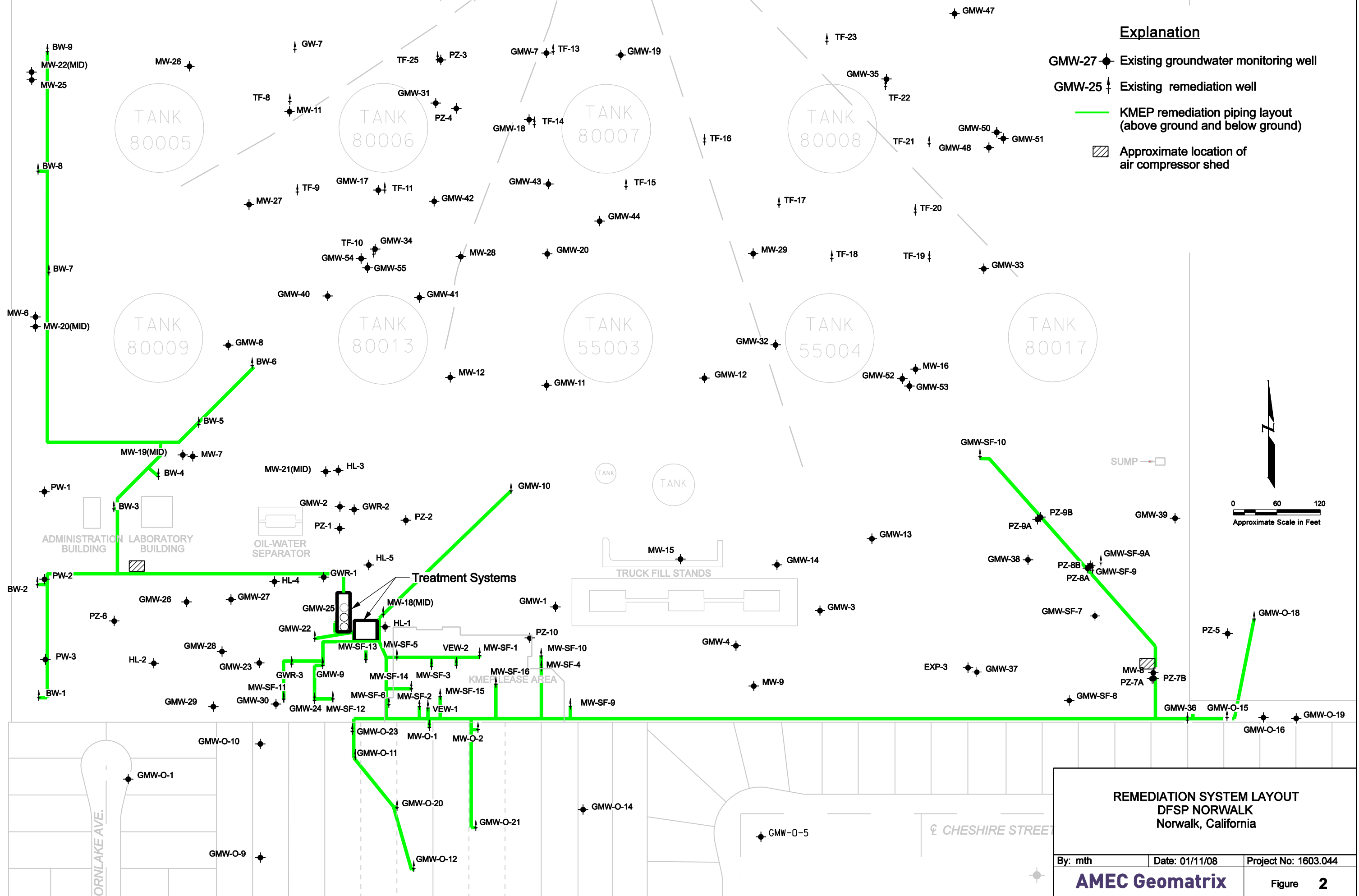
By: kle	Date: 07/19/07	Project No: 1603.044
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AMEC Geomatrix

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



REMEDATION SYSTEM LAYOUT
DFSP NORWALK
 Norwalk, California

By: mth	Date: 01/11/08	Project No: 1603.044
AMEC Geomatrix		Figure 2

P:\S1603\gis\dgnv8\system_exp_tb_v8.dgn



APPENDIX A

SUMMARY OF SYSTEM SHUTDOWNS 2009

Appendix A

Summary of System Shutdowns in 2009

The remediation systems operated continuously during 2009 with some exceptions as described below and in previously submitted quarterly progress reports for 2009:

- The SVE system was shut down from December 2, 2008 through January 20, 2009 for rebound testing.
- The TFE/GWE system was shut down between January 16 and January 20, 2009 pending further evaluation of results received on January 16, 2009 indicating the detection of selenium at a concentration above its maximum discharge limit in the effluent water sample collected on January 6, 2009. Mr. Mazhar Ali of the LARWQCB was notified on January 16, 2009 within 24 hours of receiving the selenium result.
- The SVE system shut down on January 25, 2009 due to an overheating SVE blower motor. The motor was replaced and the system was restarted on February 2, 2009.
- The TFE/GWE system was shut down between February 3 and March 3, 2009 to further evaluate selenium concentrations in extraction wells. During the shutdown period, groundwater samples were collected from TFE and GWE wells and analyzed for selenium to evaluate concentrations of selenium in extracted groundwater. Based on the selenium results, wells GMW-O-20, GMW-O-23, MW-SF-3, GMW-24, MW-SF-11, GMW-9, and MW-O-1 remained shut down when the system was restarted on March 3, 2009..
- The SVE system automatically shut down on February 17, 2009 due to a low combustion temperature. The system was restarted on the same day.
- The SVE system automatically shut down on February 18, March 14, March 31, and April 11, 2009 due to a high water level alarm for the knockout tank. The knockout tank was emptied, the water level sensors were cleaned, and the SVE system was restarted on February 20, March 17, April 3, and April 16, 2009, respectively.
- The SVE system shut down with no alarms, likely due to electrical malfunctions on February 26, 2009, March 4, June 11, June 12, June 22, early morning on June 26, late afternoon on June 26, July 17, July 21, August 4, August 8, August 11, August 15, August 19, August 21, August 25, August 28, December 7, and December 27, 2009 for unknown reasons. The system was restarted on, respectively, February 28, March 6, June 12, June 15, June 23, June 26, June 30, July 17, July 21, August 7, August 11, August 14, August 18, August 21, August 25, August 28, September 1, December 8, and December 28, 2009. On September 1, 2009, an adjustment was made to the SVE electrical panel and the SVE system did not shut down without alarms during the rest of the quarter.

- The SVE system shut down on March 2, and December 9, 2009 due to a blown fuse within the electrical panel. The system was restarted on March 3 and December 10, 2009, respectively, after resetting the breakers in the electrical room and replacing the blown fuse within the SVE electrical panel on each occasion.
- The TFE/GWE system shut down on March 7, August 8, and August 15, 2009 due to high water level alarms for the transfer tank. Bag filters for the groundwater treatment system were replaced and the system was restarted on March 11, 2009. On August 11, 2009 the water level sensors were cleaned and the system was restarted. On August 18, 2009 the water level sensors were re-cleaned, the anti-scalant feed was changed, and the system was restarted.
- The TFE/GWE system was shut down temporarily on April 3, 2009 for servicing of the bag filter valves and was restarted the same day.
- The SVE system shut down on April 16, 2009 due to a high water level alarm for the knock-out tank and remained shutdown for groundwater monitoring and then for rebound testing. The system was restarted on May 29, 2009 after groundwater monitoring and rebound testing was completed.
- The TFE/GWE system was shut down between April 17 and May 5, 2009 for groundwater monitoring and liquid-phase granular activated carbon changeout.
- The SVE system shut down on June 1 and June 8 due to a tripped motor starter alarm, and some time between November 6 and November 10, 2009 due to a burnt out motor starter. The system was restarted on June 2, June 9, 2009 after the first two shutdowns. The motor starter was repaired and the system was restarted on November 19, 2009 following the third shutdown.
- The SVE system shut down due to a tripped breaker on July 5, September 3, and September 20, 2009. The system was restarted on July 7, September 11, and September 20, 2009, respectively, and the breaker was repaired on September 11, 2009.
- On July 31, 2009 the SVE system was shut down due to questionable exhaust VOC concentrations. Two FIDs were used to measure exhaust VOC concentrations – one FID indicated that VOC concentrations were greater than the VOC discharge limit of 30 parts per million by volume (ppmv) as hexane and the other indicated VOC concentrations less than 30 ppmv as hexane. Prior to shutdown, an effluent vapor sample was collected for laboratory analysis, the results of which indicated that the effluent vapor VOC concentrations did not exceed the VOC discharge limit of 30 ppmv as hexane. The SVE system was restarted on August 4, 2009.
- The TFE/GWE system shut down with no alarms and the SVE system shut as well down due to an oxidizer fault on October 14, 2009. The TFE/GWE system was restarted in the south-central area on October 16, 2009. The SVE system was left shut down to facilitate groundwater monitoring and was

restarted on October 27, 2009 after completing the second semi-annual 2009 groundwater monitoring event.

- The TFE/GWE system shut down with no alarms on October 16 and November 30, 2009 and was restarted on October 19 and November 30, 2009, respectively.
- The TFE/GWE system was shut down on November 6, 2009 to facilitate quarterly groundwater gauging in several extraction wells as a part of the semi-annual groundwater monitoring event. The TFE/GWE system was restarted on November 9, 2009.
- The TFE/GWE system was shut down on November 30, 2009 to evaluate selenium concentrations in the extraction wells. The system remained shut down at the end of fourth quarter 2009 and will be restarted when the TFE/GWE pumps in wells with low selenium concentrations have been serviced and repaired as necessary to operate at increased flow rates.

On June 30, 2009, a leak was observed in the conveyance piping for extracted groundwater from the southeastern area. Pumping from the southeastern area GWE/TFE wells was stopped immediately and SFPP notified the appropriate agencies of the leak on the same day. The leak was observed to be slow, wetting a limited area of soil. The leak was repaired on July 1 and July 7, 2009 and pumping in the southeastern area was resumed on July 7, 2009.

On September 1, 2009, the air compressors used to operate the pneumatic pumps were inspected. During the inspection, an air leak was discovered in the regulator of one of the two air compressors (the "2007" air compressor) and a break was observed in the air line. The other air compressor (the "2008" air compressor) was not building pressure. Both air compressors were shut down for repairs and the regulator on the 2007 compressor and the broken air line were repaired on September 1, 2009. The 2007 air compressor, which operates pumps in wells MW-SF-11, GMW-9, GMW-22, GMW-24, GMW-25, GWR-3, MW-O-1, MW-O-2, GMW-O-11, and GMW-O-23, was restarted on September 1, 2009. The 2008 air compressor, which operates pumps in wells MW-SF-2, MW-SF-3, MW SF 6, MW-SF-12, MW-SF-13, MW-SF-14, MW-SF-15, MW-SF-16, GMW-O-20, and GMW-O-21 in the south-central area, shut down on September 18, 2009 and was repaired during September and October 2009 before being returned to service on October 13, 2009. In addition, GMW-36, located in the southeastern area, stopped pumping during the repairs to the 2007 air compressor. The 2008 compressor shut down again on November 25, 2009 due to a broken starter switch. The switch was replaced and the 2008 compressor was restarted on December 1, 2009. The pump in GMW-36 was cleaned and resumed pumping on September 30, 2009. The 2007 air compressor shut down on November 10, 2009 due to a broken motor starter. The motor starter was replaced on November 11, 2009 and the 2007 air compressor was restarted.

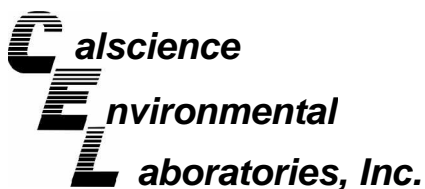
The TFE pump in GMW-O-15 apparently had not been re-installed in this well after having been removed for the April 2009 groundwater monitoring event. Totalizing flowmeter measurements from the area during second and third quarter 2009 did not indicate a conspicuous decrease in remediation system fluid extraction rate from the area; however the flowmeter that measures flow from that part of the extraction well network was subsequently found to need replacement. SFPP notified the RWQCB of this finding on October 12, 2009, replaced the affected flowmeter on October 6, 2009, and resumed groundwater extraction from GMW-O-15 on October 28, 2009 following completion of the second semi-annual 2009 groundwater monitoring event.

APPENDIX B

LABORATORY ANALYTICAL RESULTS



GROUNDWATER



Supplemental Report 3

December 30, 2009

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

Subject: **CalScience Work Order No.: 09-10-0378**
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 10/06/2009 and analyzed in accordance with the attached chain-of-custody.

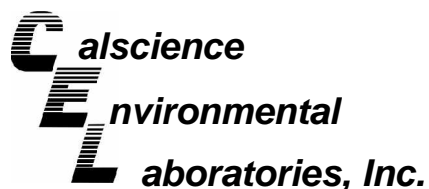
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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: 10/06/09
Work Order No: 09-10-0378
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-10-06	09-10-0378-1-G	10/06/09 12:00	Aqueous	GC 43	10/07/09	10/07/09 21:55	091007B06

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	4600	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	96	68-140				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-384-18	N/A	Aqueous	GC 43	10/07/09	10/07/09 20:54	091007B06

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	96	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: 10/06/09
Work Order No: 09-10-0378
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-10-06	09-10-0378-1-D	10/06/09 12:00	Aqueous	GC 57	10/08/09	10/08/09 17:26	091008B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard.
Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

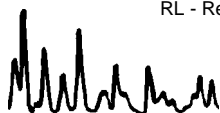
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	3900	100	48	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	133	38-134				

Method Blank	099-12-247-3,578	N/A	Aqueous	GC 57	10/08/09	10/08/09 12:36	091008B01
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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:	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	91	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: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

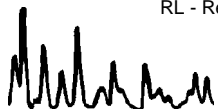
Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-10-06	09-10-0378-1-A	10/06/09 12:00	Aqueous	GC/MS EE	10/06/09	10/07/09 02:22	091006L01

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	500	91	10		1,1-Dichloropropene	ND	10	2.6	10	
Benzene	3200	12	7.1	25		c-1,3-Dichloropropene	ND	5.0	2.8	10	
Bromobenzene	ND	10	3.3	10		t-1,3-Dichloropropene	ND	5.0	3.6	10	
Bromochloromethane	ND	10	6.9	10		Ethylbenzene	21	10	2.2	10	
Bromodichloromethane	ND	10	3.3	10		2-Hexanone	ND	100	69	10	
Bromoform	ND	10	5.5	10		Isopropylbenzene	13	10	2.3	10	
Bromomethane	ND	100	43	10		p-Isopropyltoluene	ND	10	2.6	10	
2-Butanone	ND	100	69	10		Methylene Chloride	ND	100	26	10	
n-Butylbenzene	3.0	10	2.8	10	J	4-Methyl-2-Pentanone	ND	100	44	10	
sec-Butylbenzene	2.1	10	2.0	10	J	Naphthalene	51	100	25	10	J
tert-Butylbenzene	ND	10	2.8	10		n-Propylbenzene	27	10	7.9	10	
Carbon Disulfide	ND	100	19	10		Styrene	ND	10	3.0	10	
Carbon Tetrachloride	ND	5.0	4.3	10		1,1,1,2-Tetrachloroethane	ND	10	3.5	10	
Chlorobenzene	ND	10	2.2	10		1,1,2,2-Tetrachloroethane	ND	10	4.4	10	
Chloroethane	ND	50	13	10		Tetrachloroethene	ND	10	5.1	10	
Chloroform	ND	10	3.3	10		Toluene	15	10	3.3	10	
Chloromethane	ND	100	4.9	10		1,2,3-Trichlorobenzene	ND	10	3.1	10	
2-Chlorotoluene	ND	10	5.5	10		1,2,4-Trichlorobenzene	ND	10	4.9	10	
4-Chlorotoluene	ND	10	2.1	10		1,1,1-Trichloroethane	ND	10	4.5	10	
Dibromochloromethane	ND	10	4.8	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	6.4	10	
1,2-Dibromo-3-Chloropropane	ND	50	31	10		1,1,2-Trichloroethane	ND	10	5.4	10	
1,2-Dibromoethane	ND	10	4.7	10		Trichloroethene	ND	10	3.0	10	
Dibromomethane	ND	10	5.9	10		Trichlorofluoromethane	ND	100	3.1	10	
1,2-Dichlorobenzene	ND	10	2.7	10		1,2,3-Trichloropropane	ND	50	13	10	
1,3-Dichlorobenzene	ND	10	2.8	10		1,2,4-Trimethylbenzene	2.7	10	2.4	10	J
1,4-Dichlorobenzene	ND	10	2.1	10		1,3,5-Trimethylbenzene	2.5	10	2.3	10	J
Dichlorodifluoromethane	ND	10	4.9	10		Vinyl Acetate	ND	100	71	10	
1,1-Dichloroethane	ND	10	3.7	10		Vinyl Chloride	ND	5.0	3.3	10	
1,2-Dichloroethane	ND	5.0	3.1	10		p/m-Xylene	28	10	4.5	10	
1,1-Dichloroethene	ND	10	4.0	10		o-Xylene	7.0	10	2.4	10	J
c-1,2-Dichloroethene	ND	10	4.9	10		Methyl-t-Butyl Ether (MTBE)	82	10	3.0	10	
t-1,2-Dichloroethene	ND	10	4.0	10		Diisopropyl Ether (DIPE)	40	20	3.1	10	
1,2-Dichloropropane	ND	10	3.8	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	2.7	10	
1,3-Dichloropropane	ND	10	3.8	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	2.8	10	
2,2-Dichloropropane	ND	10	4.6	10		Ethanol	ND	1000	430	10	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	108	80-132				1,2-Dichloroethane-d4	118	80-141			
Toluene-d8	99	80-120				1,4-Bromofluorobenzene	83	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: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

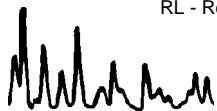
Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,927	N/A	Aqueous	GC/MS EE	10/06/09	10/06/09 18:20	091006L01

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	9.1	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	43	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	101	80-132				1,2-Dichloroethane-d4	111	80-141			
Toluene-d8	101	80-120				1,4-Bromofluorobenzene	84	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: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

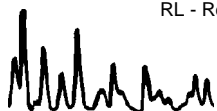
Page 3 of 3

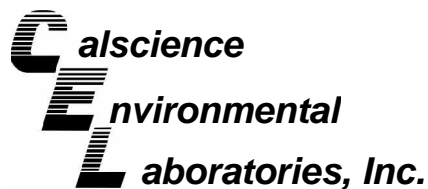
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,952	N/A	Aqueous	GC/MS S	10/12/09	10/12/09 12:12	091012L01

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	9.1	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	43	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	115	80-132				1,2-Dichloroethane-d4	116	80-141			
Toluene-d8	97	80-120				1,4-Bromofluorobenzene	91	76-120			

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





Quality Control - Spike/Spike Duplicate



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

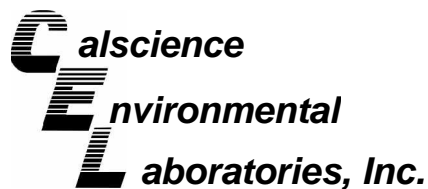
Date Received: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-0496-1	Aqueous	GC 57	10/08/09	10/08/09	091008S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	109	104	68-122	4	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Newport Beach, CA 92663-3627

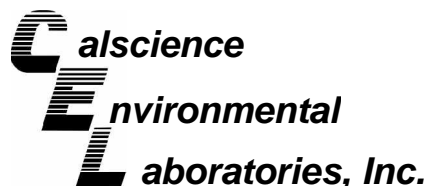
Date Received: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-0360-1	Aqueous	GC/MS EE	10/06/09	10/06/09	091006S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	101	72-120	1	0-20	
Toluene	100	100	74-122	0	0-20	
Ethylbenzene	92	92	78-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	91	92	72-126	2	0-21	
Tert-Butyl Alcohol (TBA)	84	84	72-126	0	0-20	
Diisopropyl Ether (DIPE)	107	108	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	101	103	74-128	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	103	105	76-124	2	0-20	
Ethanol	96	93	35-167	3	0-48	
1,1-Dichloroethene	107	108	60-132	1	0-24	
1,2-Dibromoethane	94	92	80-120	2	0-20	
1,2-Dichlorobenzene	99	103	80-120	3	0-20	
Carbon Tetrachloride	89	91	63-135	2	0-20	
Chlorobenzene	102	100	80-120	2	0-20	
Trichloroethene	89	89	69-120	0	0-20	
Vinyl Chloride	102	100	58-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



AMEC Geomatrix, Inc.
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Newport Beach, CA 92663-3627

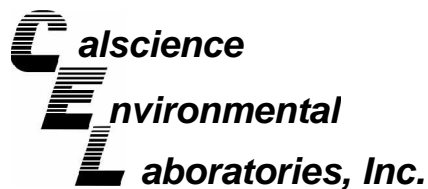
Date Received: 10/06/09
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-0843-1	Aqueous	GC/MS S	10/12/09	10/12/09	091012S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	109	72-120	0	0-20	
Carbon Tetrachloride	123	120	63-135	3	0-20	
Chlorobenzene	104	103	80-120	1	0-20	
1,2-Dibromoethane	102	101	80-120	0	0-20	
1,2-Dichlorobenzene	95	96	80-120	1	0-20	
1,1-Dichloroethene	107	105	60-132	2	0-24	
Ethylbenzene	104	106	78-120	2	0-20	
Toluene	107	107	74-122	0	0-20	
Trichloroethene	86	97	69-120	4	0-20	
Vinyl Chloride	80	81	58-130	1	0-20	
Methyl-t-Butyl Ether (MTBE)	114	99	72-126	14	0-21	
Tert-Butyl Alcohol (TBA)	95	87	72-126	9	0-20	
Diisopropyl Ether (DIPE)	88	112	71-137	24	0-23	4
Ethyl-t-Butyl Ether (ETBE)	105	106	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	109	109	76-124	0	0-20	
Ethanol	84	80	35-167	6	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

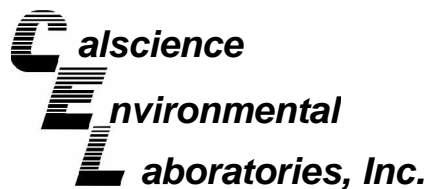
Date Received: N/A
Work Order No: 09-10-0378
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-18	Aqueous	GC 43	10/07/09	10/07/09	091007B06

<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	91	92	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Suite 200
Newport Beach, CA 92663-3627

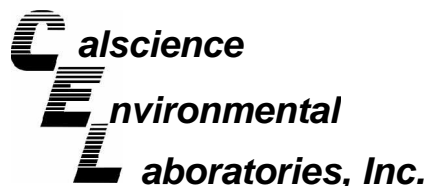
Date Received: N/A
Work Order No: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,578	Aqueous	GC 57	10/08/09	10/08/09	091008B01

<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	106	108	78-120	1	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: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,927	Aqueous	GC/MS EE	10/06/09	10/06/09	091006L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	95	80-122	73-129	1	0-20	
Carbon Tetrachloride	83	82	68-140	56-152	2	0-20	
Chlorobenzene	98	95	80-120	73-127	3	0-20	
1,2-Dibromoethane	89	87	80-121	73-128	3	0-20	
1,2-Dichlorobenzene	99	99	80-120	73-127	0	0-20	
1,1-Dichloroethene	99	96	72-132	62-142	3	0-25	
Ethylbenzene	89	86	80-126	72-134	4	0-20	
Toluene	96	94	80-121	73-128	2	0-20	
Trichloroethene	86	84	80-123	73-130	2	0-20	
Vinyl Chloride	97	98	67-133	56-144	1	0-20	
Methyl-t-Butyl Ether (MTBE)	88	90	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	84	79	75-123	67-131	7	0-20	
Diisopropyl Ether (DIPE)	102	100	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	100	99	76-124	68-132	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	102	103	80-123	73-130	0	0-20	
Ethanol	82	86	61-139	48-152	5	0-27	

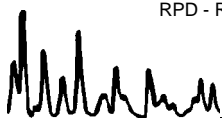
Total number of LCS compounds : 16

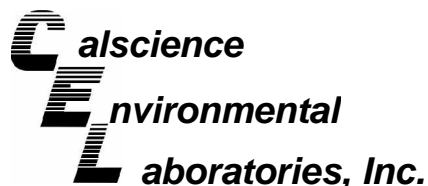
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





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: 09-10-0378
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,952	Aqueous	GC/MS S	10/12/09	10/12/09	091012L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	110	109	80-122	73-129	1	0-20	
Carbon Tetrachloride	124	123	68-140	56-152	1	0-20	
Chlorobenzene	104	104	80-120	73-127	0	0-20	
1,2-Dibromoethane	101	102	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	97	98	80-120	73-127	1	0-20	
1,1-Dichloroethene	106	106	72-132	62-142	0	0-25	
Ethylbenzene	105	105	80-126	72-134	0	0-20	
Toluene	106	106	80-121	73-128	0	0-20	
Trichloroethene	106	106	80-123	73-130	1	0-20	
Vinyl Chloride	83	81	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	125	103	75-123	67-131	20	0-20	ME
Tert-Butyl Alcohol (TBA)	87	87	75-123	67-131	0	0-20	
Diisopropyl Ether (DIPE)	118	108	71-131	61-141	9	0-20	
Ethyl-t-Butyl Ether (ETBE)	109	109	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	111	110	80-123	73-130	1	0-20	
Ethanol	79	74	61-139	48-152	6	0-27	

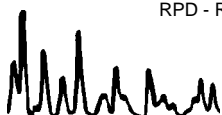
Total number of LCS compounds : 16

Total number of ME compounds : 1

Total number of ME compounds allowed : 1

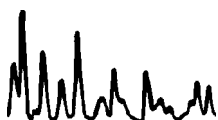
LCS ME CL validation result : Pass

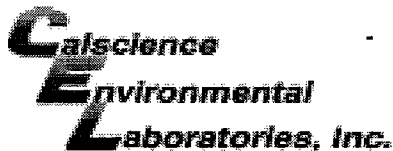
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-10-0378

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.





WORK ORDER #: 09-10-0378

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KINDEIR MORGAN

DATE: 10 / 06 / 09

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

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °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: PS

CUSTODY SEALS INTACT:

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

Initial: PS
Initial: PS

SAMPLE CONDITION:

Table with 4 columns: Item, 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, Sample container(s) intact and good condition, Correct containers and volume for analyses requested, Analyses received within holding time, Proper preservation noted on COC or sample container, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

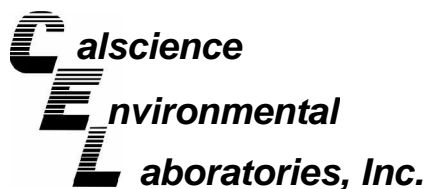
CONTAINER TYPE:

- 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
[x] 250PB [x] 250PBn [x] 125PB [] 125PBzanna [] 100PJ [] 100PJna2

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

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

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



November 03, 2009

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

Subject: **Calscience Work Order No.: 09-10-2103**
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 10/27/2009 and analyzed in accordance with the attached chain-of-custody.

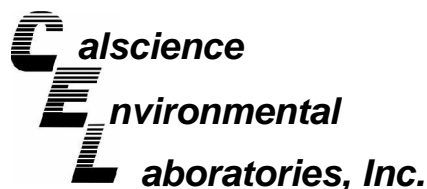
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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'.

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: 10/27/09
Work Order No: 09-10-2103
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-10-27	09-10-2103-1-C	10/27/09 11:00	Aqueous	GC 27	10/28/09	10/29/09 17:34	091028B17

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

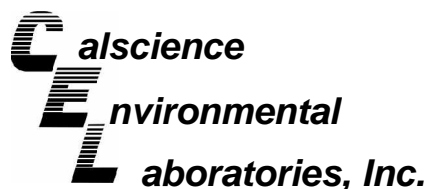
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	ND	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	70	68-140				

Method Blank	099-12-384-19	N/A	Aqueous	GC 27	10/28/09	10/29/09 16:39	091028B17
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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	114	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: 10/27/09
Work Order No: 09-10-2103
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-10-27	09-10-2103-1-B	10/27/09 11:00	Aqueous	GC 18	10/28/09	10/28/09 16:12	091028B01

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	1000	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	86	38-134				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,639	N/A	Aqueous	GC 18	10/28/09	10/28/09 14:25	091028B01

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	77	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: 10/27/09
Work Order No: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

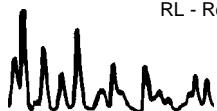
Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-10-27	09-10-2103-1-A	10/27/09 11:00	Aqueous	GC/MS S	10/28/09	10/28/09 17:42	091028L01

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	250	100	5		1,1-Dichloropropene	ND	5.0	1.3	5	
Benzene	520	2.5	1.4	5		c-1,3-Dichloropropene	ND	2.5	1.4	5	
Bromobenzene	ND	5.0	1.7	5		t-1,3-Dichloropropene	ND	2.5	1.8	5	
Bromochloromethane	ND	5.0	3.5	5		Ethylbenzene	3.5	5.0	1.1	5	J
Bromodichloromethane	ND	5.0	1.7	5		2-Hexanone	ND	50	34	5	
Bromoform	ND	5.0	2.8	5		Isopropylbenzene	ND	5.0	1.1	5	
Bromomethane	ND	50	21	5		p-Isopropyltoluene	ND	5.0	1.3	5	
2-Butanone	ND	50	35	5		Methylene Chloride	ND	50	13	5	
n-Butylbenzene	ND	5.0	1.4	5		4-Methyl-2-Pentanone	ND	50	22	5	
sec-Butylbenzene	ND	5.0	1.0	5		Naphthalene	13	50	13	5	J
tert-Butylbenzene	ND	5.0	1.4	5		n-Propylbenzene	ND	50	4.0	5	
Carbon Disulfide	ND	50	9.6	5		Styrene	ND	5.0	1.5	5	
Carbon Tetrachloride	ND	2.5	2.1	5		1,1,1,2-Tetrachloroethane	ND	5.0	1.8	5	
Chlorobenzene	ND	5.0	1.1	5		1,1,2,2-Tetrachloroethane	ND	5.0	2.2	5	
Chloroethane	ND	25	6.4	5		Tetrachloroethene	ND	5.0	2.6	5	
Chloroform	ND	5.0	1.7	5		Toluene	15	5.0	1.6	5	
Chloromethane	ND	50	2.4	5		1,2,3-Trichlorobenzene	ND	5.0	1.5	5	
2-Chlorotoluene	ND	5.0	2.8	5		1,2,4-Trichlorobenzene	ND	5.0	2.4	5	
4-Chlorotoluene	ND	5.0	1.1	5		1,1,1-Trichloroethane	ND	5.0	2.2	5	
Dibromochloromethane	ND	5.0	2.4	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	3.2	5	
1,2-Dibromo-3-Chloropropane	ND	25	16	5		1,1,2-Trichloroethane	ND	5.0	2.7	5	
1,2-Dibromoethane	ND	5.0	2.3	5		Trichloroethene	ND	5.0	1.5	5	
Dibromomethane	ND	5.0	2.9	5		Trichlorofluoromethane	ND	50	1.6	5	
1,2-Dichlorobenzene	ND	5.0	1.4	5		1,2,3-Trichloropropane	ND	25	6.7	5	
1,3-Dichlorobenzene	ND	5.0	1.4	5		1,2,4-Trimethylbenzene	ND	5.0	1.2	5	
1,4-Dichlorobenzene	ND	5.0	1.1	5		1,3,5-Trimethylbenzene	ND	5.0	1.2	5	
Dichlorodifluoromethane	ND	5.0	2.5	5		Vinyl Acetate	ND	50	35	5	
1,1-Dichloroethane	ND	5.0	1.9	5		Vinyl Chloride	ND	2.5	1.6	5	
1,2-Dichloroethane	ND	2.5	1.6	5		p/m-Xylene	7.3	5.0	2.3	5	
1,1-Dichloroethene	ND	5.0	2.0	5		o-Xylene	2.6	5.0	1.2	5	J
c-1,2-Dichloroethene	ND	5.0	2.4	5		Methyl-t-Butyl Ether (MTBE)	180	5.0	1.5	5	
t-1,2-Dichloroethene	ND	5.0	2.0	5		Diisopropyl Ether (DIPE)	13	10	1.5	5	
1,2-Dichloropropane	ND	5.0	1.9	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	1.3	5	
1,3-Dichloropropane	ND	5.0	1.9	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	1.4	5	
2,2-Dichloropropane	ND	5.0	2.3	5		Ethanol	ND	500	250	5	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	128	80-132				1,2-Dichloroethane-d4	122	80-141			
Toluene-d8	92	80-120				1,4-Bromofluorobenzene	88	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: 10/27/09
Work Order No: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

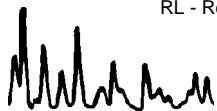
Page 2 of 2

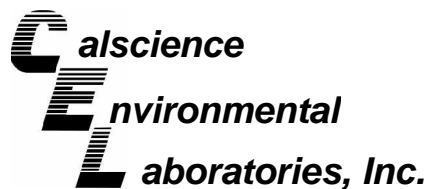
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,138	N/A	Aqueous	GC/MS S	10/28/09	10/28/09 12:48	091028L01

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	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	124	80-132				1,2-Dichloroethane-d4	117	80-141			
Toluene-d8	95	80-120				1,4-Bromofluorobenzene	86	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

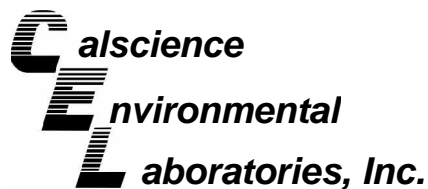
Date Received: 10/27/09
Work Order No: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2168-1	Aqueous	GC 18	10/28/09	10/28/09	091028S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	106	104	68-122	2	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

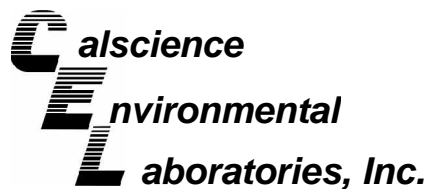
Date Received: 10/27/09
Work Order No: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2032-1	Aqueous	GC/MS S	10/28/09	10/28/09	091028S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	107	72-120	1	0-20	
Carbon Tetrachloride	114	113	63-135	1	0-20	
Chlorobenzene	103	106	80-120	3	0-20	
1,2-Dibromoethane	101	108	80-120	6	0-20	
1,2-Dichlorobenzene	85	89	80-120	4	0-20	
1,1-Dichloroethene	101	99	60-132	2	0-24	
Ethylbenzene	97	98	78-120	1	0-20	
Toluene	104	104	74-122	0	0-20	
Trichloroethene	104	104	69-120	0	0-20	
Vinyl Chloride	93	96	58-130	3	0-20	
Methyl-t-Butyl Ether (MTBE)	105	106	72-126	1	0-21	
Tert-Butyl Alcohol (TBA)	82	83	72-126	0	0-20	
Diisopropyl Ether (DIPE)	98	102	71-137	3	0-23	
Ethyl-t-Butyl Ether (ETBE)	92	94	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	99	76-124	2	0-20	
Ethanol	92	90	35-167	2	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

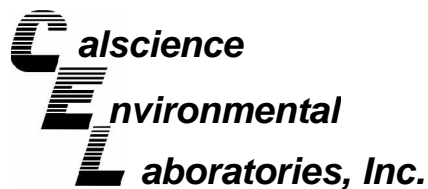
Date Received: N/A
Work Order No: 09-10-2103
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-19	Aqueous	GC 27	10/28/09	10/29/09	091028B17

<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	90	92	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

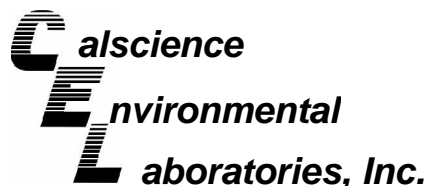
Date Received: N/A
Work Order No: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,639	Aqueous	GC 18	10/28/09	10/28/09	091028B01

<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	104	103	78-120	1	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: 09-10-2103
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,138	Aqueous	GC/MS S	10/28/09	10/28/09	091028L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	108	80-122	73-129	1	0-20	
Carbon Tetrachloride	117	121	68-140	56-152	3	0-20	
Chlorobenzene	106	108	80-120	73-127	2	0-20	
1,2-Dibromoethane	102	106	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	88	88	80-120	73-127	1	0-20	
1,1-Dichloroethene	106	106	72-132	62-142	0	0-25	
Ethylbenzene	98	101	80-126	72-134	3	0-20	
Toluene	104	105	80-121	73-128	1	0-20	
Trichloroethene	105	106	80-123	73-130	1	0-20	
Vinyl Chloride	101	99	67-133	56-144	2	0-20	
Methyl-t-Butyl Ether (MTBE)	106	108	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	84	85	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	94	103	71-131	61-141	9	0-20	
Ethyl-t-Butyl Ether (ETBE)	102	101	76-124	68-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	98	100	80-123	73-130	2	0-20	
Ethanol	97	86	61-139	48-152	12	0-27	

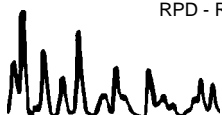
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

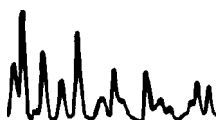
LCS ME CL validation result : Pass

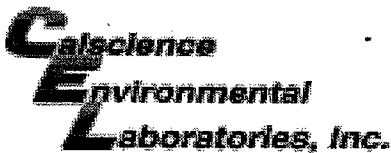
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-10-2103

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.





WORK ORDER #: 09-10-2103

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KMEP

DATE: 10/27/09

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

Temperature 3.9 °C - 0.2 °C (CF) = 3.7 °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"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No 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"/>
Correct containers and 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 VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

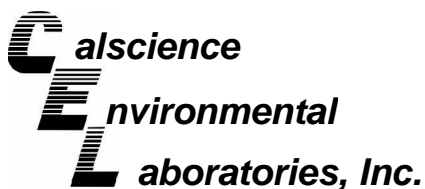
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

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

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

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

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



Supplemental Report 2

December 30, 2009

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

Subject: **CalScience Work Order No.: 09-11-0109**
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 11/03/2009 and analyzed in accordance with the attached chain-of-custody.

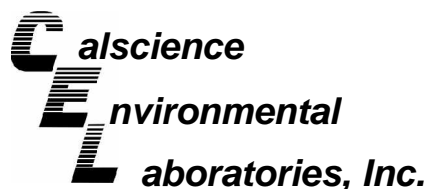
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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: 11/03/09
Work Order No: 09-11-0109
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-11-03	09-11-0109-1-G	11/03/09 11:30	Aqueous	GC 27	11/04/09	11/05/09 14:53	091104B08

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

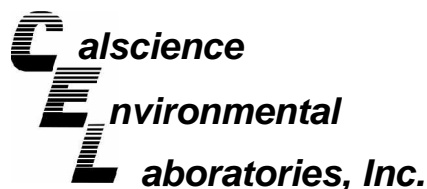
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	ND	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	96	68-140				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-384-20	N/A	Aqueous	GC 27	11/04/09	11/05/09 13:58	091104B08

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	126	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: 11/03/09
Work Order No: 09-11-0109
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-11-03	09-11-0109-1-D	11/03/09 11:30	Aqueous	GC 18	11/04/09	11/05/09 01:42	091104B01

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	120	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	96	38-134				

Method Blank	099-12-247-3,662	N/A	Aqueous	GC 18	11/04/09	11/04/09 19:45	091104B01
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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	87	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: 11/03/09
Work Order No: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

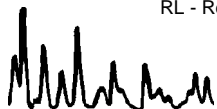
Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-11-03	09-11-0109-1-A	11/03/09 11:30	Aqueous	GC/MS S	11/06/09	11/06/09 18:22	091106L01

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	1.7	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	0.55	1.0	0.22	1	J
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	0.32	1.0	0.28	1	J	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	0.61	1.0	0.33	1	J
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	2.7	1.0	0.24	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,3,5-Trimethylbenzene	1.0	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	1.6	1.0	0.45	1	
1,1-Dichloroethene	ND	1.0	0.40	1		o-Xylene	1.0	1.0	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Methyl-t-Butyl Ether (MTBE)	40	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	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	107	80-132				1,2-Dichloroethane-d4	110	80-141			
Toluene-d8	101	80-120				1,4-Bromofluorobenzene	94	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: 11/03/09
Work Order No: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

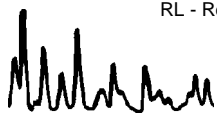
Page 2 of 2

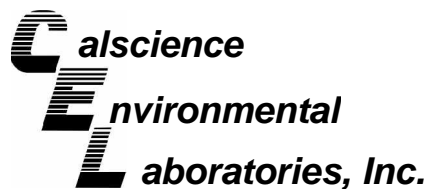
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,250	N/A	Aqueous	GC/MS S	11/06/09	11/06/09 15:53	091106L01

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	0.38	1.0	0.31	1	J
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	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	101	80-132				1,2-Dichloroethane-d4	105	80-141			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	92	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

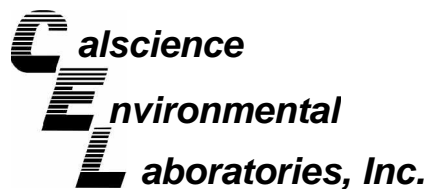
Date Received: 11/03/09
Work Order No: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0174-4	Aqueous	GC 18	11/04/09	11/04/09	091104S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	93	96	68-122	3	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

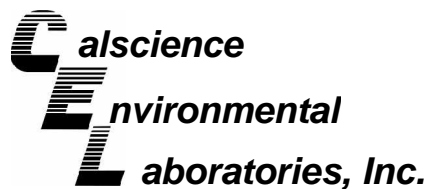
Date Received: 11/03/09
Work Order No: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0467-6	Aqueous	GC/MS S	11/06/09	11/06/09	091106S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	99	72-120	1	0-20	
Carbon Tetrachloride	101	98	63-135	3	0-20	
Chlorobenzene	103	99	80-120	4	0-20	
1,2-Dibromoethane	104	99	80-120	5	0-20	
1,2-Dichlorobenzene	101	97	80-120	5	0-20	
1,1-Dichloroethene	99	98	60-132	1	0-24	
Ethylbenzene	108	105	78-120	3	0-20	
Toluene	100	100	74-122	0	0-20	
Trichloroethene	99	100	69-120	2	0-20	
Vinyl Chloride	93	90	58-130	4	0-20	
Methyl-t-Butyl Ether (MTBE)	97	89	72-126	8	0-21	
Tert-Butyl Alcohol (TBA)	115	91	72-126	23	0-20	4
Diisopropyl Ether (DIPE)	101	99	71-137	2	0-23	
Ethyl-t-Butyl Ether (ETBE)	102	98	74-128	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	105	106	76-124	1	0-20	
Ethanol	90	74	35-167	19	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

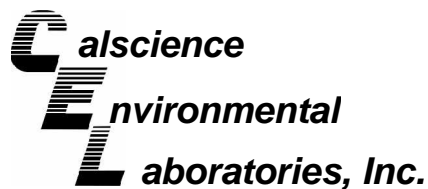
Date Received: N/A
Work Order No: 09-11-0109
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-20	Aqueous	GC 27	11/04/09	11/05/09	091104B08

<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	111	109	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

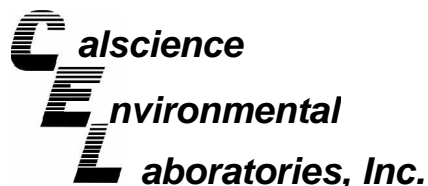
Date Received: N/A
Work Order No: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,662	Aqueous	GC 18	11/04/09	11/04/09	091104B01

<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	101	100	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: 09-11-0109
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,250	Aqueous	GC/MS S	11/06/09	11/06/09	091106L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	100	80-122	73-129	0	0-20	
Carbon Tetrachloride	102	103	68-140	56-152	1	0-20	
Chlorobenzene	101	100	80-120	73-127	0	0-20	
1,2-Dibromoethane	102	105	80-121	73-128	3	0-20	
1,2-Dichlorobenzene	102	101	80-120	73-127	1	0-20	
1,1-Dichloroethene	103	103	72-132	62-142	0	0-25	
Ethylbenzene	108	107	80-126	72-134	0	0-20	
Toluene	100	100	80-121	73-128	1	0-20	
Trichloroethene	100	99	80-123	73-130	1	0-20	
Vinyl Chloride	96	95	67-133	56-144	2	0-20	
Methyl-t-Butyl Ether (MTBE)	98	99	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	105	96	75-123	67-131	9	0-20	
Diisopropyl Ether (DIPE)	106	108	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	108	107	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	108	108	80-123	73-130	0	0-20	
Ethanol	84	79	61-139	48-152	5	0-27	

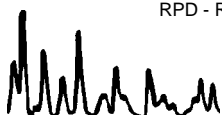
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

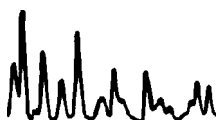
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-11-0109

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.



CHAIN OF CUSTODY RECORD


DATE: _____

PAGE: 1 OF 1

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

LABORATORY CLIENT: **Kinder 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: **patrick_lova@kindermorgan.com**

CLIENT PROJECT NAME/NUMBER: **SFPP - Norwalk Site**
 P.O. NO.: _____
 QUOTE NO.: _____


PROJECT CONTACT: **Patrick Loya**
 SAMPLER(S) (SIGNATURE): 

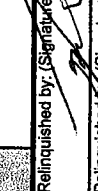
LAB USE ONLY:

1	1	0	1	0	9
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REQUESTED ANALYSIS

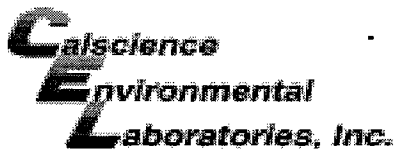
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	ANALYSIS										Comments	
			DATE	TIME		TPH - g (8015M)	VOCs, Full List (8260B)	Oil & Grease (413.1)	TPH-g (C5-C14 Only) (8015M)	MIB:BTX;1,1-DCA;1,2-DCA;MEK(8260B)	Settleable Solids (160.5)	Total Suspended Solids (160.2)	Phenolics (420.1)	Hg,Cr(VI),Cu(1669,7199,6020)	Selenium on 24 HR TAT		
	INF- 11-03	Influent	11-03-09	1130	7	X	X	X	X	X	X	X	X	X	X	X	Temperature* = 71.7
	EFF- 11-03	Effluent	11-03-09	1130	12	X	X	X	X	X	X	X	X	X	X	X	Temperature* = 71.7 (Temp. as sampled*)
																	Monthly

Reinquired by: (Signature)  Date: 11-03-09 Time: 13:06

Reinquired by: (Signature)  Date: _____ Time: _____

Reinquired by: (Signature) _____ Date: _____ Time: _____

Revised: 07/23/09



WORK ORDER #: 09-11-0109

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: Kinder Morgan

DATE: 11/03/09

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

Temperature 3.9°C - 0.8°C (CF) = 3.1°C [] Blank [x] 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: WSC

CUSTODY SEALS INTACT:

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

Initial: WSC

Initial: WSC

SAMPLE CONDITION:

Table with 4 columns: Sample Condition, 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, etc.

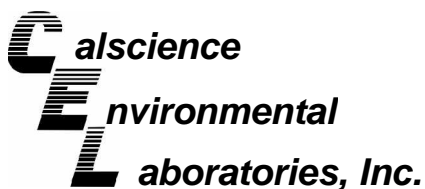
CONTAINER TYPE:

- 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
[x] 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: Envelop Reviewed by: D.L.

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



December 04, 2009

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

Subject: **CalScience Work Order No.: 09-11-2080**
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 11/25/2009 and analyzed in accordance with the attached chain-of-custody.

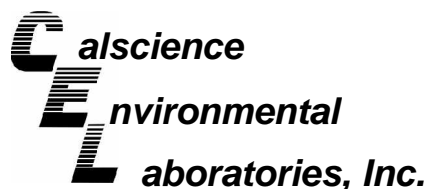
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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".

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: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 3020A Total
Method: EPA 6020

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-11-25	09-11-2080-1-G	11/25/09 10:00	Aqueous	ICP/MS 03	11/25/09	11/25/09 18:50	091125L03

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

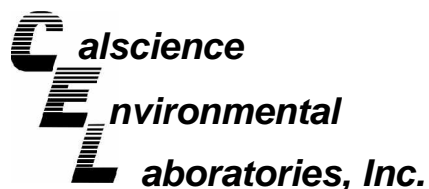
Parameter	Result	RL	MDL	DF	Qual	Units
Selenium	0.00619	0.00100	0.000554	1		mg/L

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	096-06-003-2,491	N/A	Aqueous	ICP/MS 03	11/25/09	11/25/09 18:08	091125L03

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
Selenium	ND	0.00100	0.000554	1		mg/L

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: 11/25/09
Work Order No: 09-11-2080
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-11-25	09-11-2080-1-H	11/25/09 10:00	Aqueous	GC 27	11/27/09	11/30/09 17:12	091127B06

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

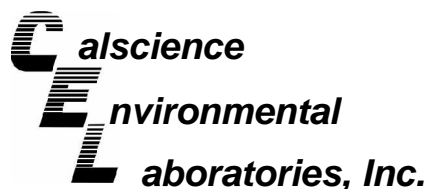
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Fuel Product	4000	500	430	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	97	68-140				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-384-22	N/A	Aqueous	GC 27	11/27/09	11/30/09 16:17	091127B06

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	73	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: 11/25/09
Work Order No: 09-11-2080
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-11-25	09-11-2080-1-D	11/25/09 10:00	Aqueous	GC 18	11/30/09	12/01/09 01:24	091130B01

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	5700	100	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	105	38-134				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-3,740	N/A	Aqueous	GC 18	11/30/09	11/30/09 10:31	091130B01

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	76	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: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-11-25	09-11-2080-1-A	11/25/09 10:00	Aqueous	GC/MS O	11/25/09	11/25/09 16:42	091125L01

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		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	3100	50	28	100		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	26	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	17	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	2.7	1.0	0.28	1		Naphthalene	69	10	2.5	1	
sec-Butylbenzene	2.1	1.0	0.20	1		n-Propylbenzene	35	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	0.24	1.0	0.22	1	J	Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	13	1.0	0.33	1	
Chloroform	0.85	1.0	0.33	1	J	1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	5.7	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	4.2	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	36	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	12	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	88	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	670	10	3.5	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		Diisopropyl Ether (DIPE)	37	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	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	80-132		1,2-Dichloroethane-d4	115	80-141	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	105	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: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,460	N/A	Aqueous	GC/MS O	11/25/09	11/25/09 12:05	091125L01

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		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	0.43	1.0	0.31	1	J
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	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	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	80-132		1,2-Dichloroethane-d4	112	80-141	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	95	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: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: SFPP - Norwalk Site

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,509	N/A	Aqueous	GC/MS JJ	12/01/09	12/01/09 17:52	091201L01

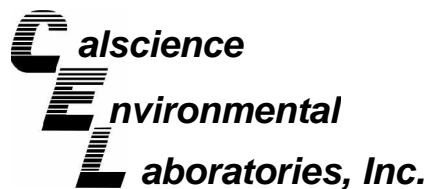
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Benzene	ND	0.50	0.28	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromobenzene	ND	1.0	0.33	1		Ethylbenzene	ND	1.0	0.22	1	
Bromochloromethane	ND	1.0	0.69	1		2-Hexanone	ND	10	6.9	1	
Bromodichloromethane	ND	1.0	0.33	1		Isopropylbenzene	ND	1.0	0.23	1	
Bromoform	ND	1.0	0.55	1		p-Isopropyltoluene	ND	1.0	0.26	1	
Bromomethane	ND	10	4.3	1		Methylene Chloride	ND	10	2.6	1	
2-Butanone	ND	10	6.9	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.28	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.20	1		n-Propylbenzene	ND	1.0	0.79	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.30	1	
Carbon Disulfide	ND	10	1.9	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Carbon Tetrachloride	ND	0.50	0.43	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chlorobenzene	ND	1.0	0.22	1		Tetrachloroethene	ND	1.0	0.51	1	
Chloroethane	ND	5.0	1.3	1		Toluene	ND	1.0	0.33	1	
Chloroform	ND	1.0	0.33	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Chloromethane	ND	10	0.49	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
2-Chlorotoluene	ND	1.0	0.55	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromochloromethane	ND	1.0	0.48	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		Trichloroethene	ND	1.0	0.30	1	
1,2-Dibromoethane	ND	1.0	0.47	1		Trichlorofluoromethane	ND	10	0.31	1	
Dibromomethane	ND	1.0	0.59	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		Vinyl Acetate	ND	10	7.1	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		Vinyl Chloride	ND	0.50	0.33	1	
1,1-Dichloroethane	ND	1.0	0.37	1		p/m-Xylene	ND	1.0	0.45	1	
1,2-Dichloroethane	ND	0.50	0.31	1		o-Xylene	ND	1.0	0.24	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		Tert-Butyl Alcohol (TBA)	ND	10	3.5	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	
1,1-Dichloropropene	ND	1.0	0.26	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-132		1,2-Dichloroethane-d4	111	80-141	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	98	76-120	

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





Quality Control - Spike/Spike Duplicate



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

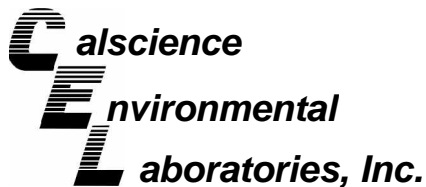
Date Received: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 3020A Total
Method: EPA 6020

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-2061-1	Aqueous	ICP/MS 03	11/25/09	11/25/09	091125S03

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Selenium	90	86	59-125	4	0-12	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PSD



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 510 Superior Avenue
 Suite 200
 Newport Beach, CA 92663-3627

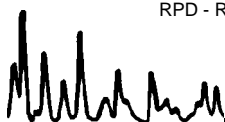
Date Received: 11/25/09
 Work Order No: 09-11-2080
 Preparation: EPA 3020A Total
 Method: EPA 6020

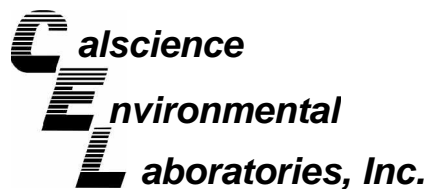
Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDS Batch Number
09-11-2061-1	Aqueous	ICP/MS 03	11/25/09	11/25/09	091125S03

Parameter	PDS %REC	PDS %REC	%REC CL	RPD	RPD CL	Qualifiers
Selenium	83	81	75-125	2	0-12	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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510 Superior Avenue
Suite 200
Newport Beach, CA 92663-3627

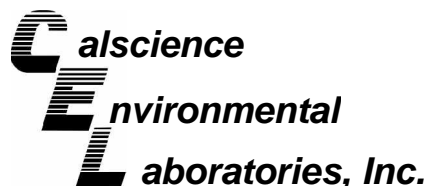
Date Received: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-2112-2	Aqueous	GC 18	11/30/09	11/30/09	091130S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	104	102	68-122	1	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

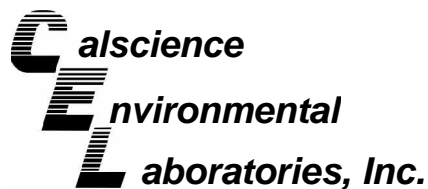
Date Received: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-2047-2	Aqueous	GC/MS O	11/25/09	11/25/09	091125S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	105	72-120	2	0-20	
Carbon Tetrachloride	117	119	63-135	2	0-20	
Chlorobenzene	103	105	80-120	2	0-20	
1,2-Dibromoethane	110	110	80-120	0	0-20	
1,2-Dichlorobenzene	103	103	80-120	0	0-20	
1,1-Dichloroethene	109	93	60-132	15	0-24	
Ethylbenzene	107	110	78-120	2	0-20	
Toluene	100	103	74-122	3	0-20	
Trichloroethene	107	108	69-120	1	0-20	
Vinyl Chloride	111	99	58-130	11	0-20	
Methyl-t-Butyl Ether (MTBE)	112	115	72-126	2	0-21	
Tert-Butyl Alcohol (TBA)	105	104	72-126	1	0-20	
Diisopropyl Ether (DIPE)	104	107	71-137	3	0-23	
Ethyl-t-Butyl Ether (ETBE)	108	109	74-128	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	106	109	76-124	3	0-20	
Ethanol	102	80	35-167	24	0-48	

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

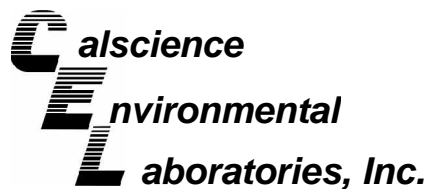
Date Received: 11/25/09
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B

Project SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-2087-1	Aqueous	GC/MS JJ	12/01/09	12/01/09	091201S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	88	72-120	5	0-20	
Toluene	99	92	74-122	7	0-20	
Ethylbenzene	102	98	78-120	4	0-20	
Methyl-t-Butyl Ether (MTBE)	102	98	72-126	4	0-21	
Tert-Butyl Alcohol (TBA)	105	99	72-126	6	0-20	
Diisopropyl Ether (DIPE)	103	100	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	102	98	74-128	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	94	76-124	3	0-20	
Ethanol	99	87	35-167	13	0-48	
1,1-Dichloroethene	94	90	60-132	5	0-24	
1,2-Dibromoethane	101	99	80-120	2	0-20	
1,2-Dichlorobenzene	97	95	80-120	3	0-20	
Carbon Tetrachloride	103	95	63-135	8	0-20	
Chlorobenzene	102	96	80-120	5	0-20	
Trichloroethene	102	95	69-120	6	0-20	
Vinyl Chloride	101	92	58-130	10	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

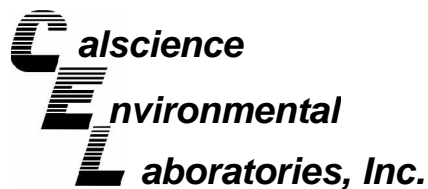
Date Received: N/A
Work Order No: 09-11-2080
Preparation: EPA 3020A Total
Method: EPA 6020

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-2,491	Aqueous	ICP/MS 03	11/25/09	11/25/09	091125L03

<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>
Selenium	102	101	80-120	2	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

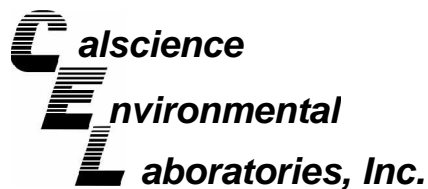
Date Received: N/A
Work Order No: 09-11-2080
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-384-22	Aqueous	GC 27	11/27/09	11/30/09	091127B06

<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	85	93	75-117	8	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

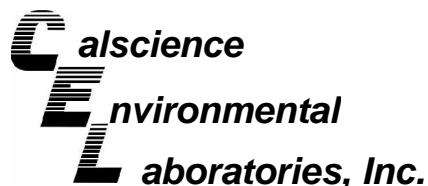
Date Received: N/A
Work Order No: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-3,740	Aqueous	GC 18	11/30/09	11/30/09	091130B01

<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	98	98	78-120	1	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: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,460	Aqueous	GC/MS O	11/25/09	11/25/09	091125L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	102	104	80-122	73-129	3	0-20	
Carbon Tetrachloride	115	117	68-140	56-152	2	0-20	
Chlorobenzene	101	104	80-120	73-127	2	0-20	
1,2-Dibromoethane	104	108	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	101	106	80-120	73-127	4	0-20	
1,1-Dichloroethene	112	112	72-132	62-142	0	0-25	
Ethylbenzene	107	109	80-126	72-134	3	0-20	
Toluene	101	103	80-121	73-128	2	0-20	
Trichloroethene	105	107	80-123	73-130	2	0-20	
Vinyl Chloride	122	113	67-133	56-144	8	0-20	
Methyl-t-Butyl Ether (MTBE)	105	109	75-123	67-131	4	0-20	
Tert-Butyl Alcohol (TBA)	90	90	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	101	105	71-131	61-141	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	103	108	76-124	68-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	102	106	80-123	73-130	4	0-20	
Ethanol	103	89	61-139	48-152	14	0-27	

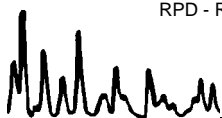
Total number of LCS compounds : 16

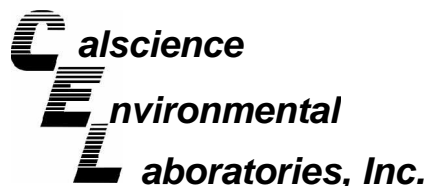
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





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: 09-11-2080
Preparation: EPA 5030B
Method: EPA 8260B

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,509	Aqueous	GC/MS JJ	12/01/09	12/01/09	091201L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	92	93	80-122	73-129	1	0-20	
Carbon Tetrachloride	102	102	68-140	56-152	0	0-20	
Chlorobenzene	100	100	80-120	73-127	0	0-20	
1,2-Dibromoethane	103	102	80-121	73-128	1	0-20	
1,2-Dichlorobenzene	97	97	80-120	73-127	0	0-20	
1,1-Dichloroethene	95	96	72-132	62-142	1	0-25	
Ethylbenzene	101	100	80-126	72-134	2	0-20	
Toluene	98	99	80-121	73-128	1	0-20	
Trichloroethene	99	102	80-123	73-130	3	0-20	
Vinyl Chloride	100	99	67-133	56-144	2	0-20	
Methyl-t-Butyl Ether (MTBE)	105	105	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	97	98	75-123	67-131	2	0-20	
Diisopropyl Ether (DIPE)	107	105	71-131	61-141	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	107	104	76-124	68-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	101	103	80-123	73-130	1	0-20	
Ethanol	94	95	61-139	48-152	0	0-27	

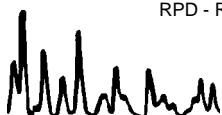
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

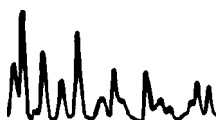
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-11-2080

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.



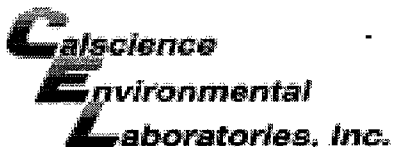
CHAIN OF CUSTODY RECORD
 DATE: 11/25/09
 PAGE: 1 OF 1

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



LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: patrick_loya@kindermorgan.com		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site PROJECT CONTACT: Patrick Loya SAMPLER(S) SIGNATURE:		P.O. NO.: QUOTE NO.: LAB USE ONLY: <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 20px; text-align: center;">1</td> <td style="width: 20px; text-align: center;">2</td> <td style="width: 20px; text-align: center;">0</td> <td style="width: 20px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">0</td> </tr> </table>		1	1	2	0	8	0																																																																	
1	1	2	0	8	0																																																																							
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 <u> / / </u>		REQUESTED ANALYSIS																																																																										
SPECIAL INSTRUCTIONS: Report to A. Padilla at Geomatrix, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh "J" flags required/Use lowest possible detection limit - all methods.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">LOCATION/ DESCRIPTION</th> <th colspan="2">SAMPLING</th> <th rowspan="2">NO. OF CONT.</th> <th rowspan="2">COMMENTS</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>MAT. RIX</th> </tr> </thead> <tbody> <tr> <td></td> <td>INF-11-25</td> <td>Influent</td> <td>11/25/09</td> <td>1000</td> <td>WW</td> <td>8</td> <td>X</td> <td>TPH-g (8015M)</td> <td>X</td> <td>TPH-g (CS-C14 Only) (8015M)</td> <td>X</td> <td>VOCs, Full List (8260B)</td> <td>X</td> <td>Oil & Grease (413-1)</td> <td>X</td> <td>MMBE; BTEX; 1,1-DCA; 1,2-DCA; MEK (8260B)</td> <td>X</td> <td>Settleable Solids (160.5)</td> <td>X</td> <td>Total Suspended Solids (160.2)</td> <td>X</td> <td>Phenolics (420.1)</td> <td>X</td> <td>Hg, Cr(VI), Cu (1669, 7199, 6020)</td> <td>X</td> <td>Selenium 5 Day TAT</td> <td>X</td> <td>Temperature* = _____</td> <td>(Temp. as sampled*)</td> <td>Monthly</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	COMMENTS	DATE	TIME	MAT. RIX		INF-11-25	Influent	11/25/09	1000	WW	8	X	TPH-g (8015M)	X	TPH-g (CS-C14 Only) (8015M)	X	VOCs, Full List (8260B)	X	Oil & Grease (413-1)	X	MMBE; BTEX; 1,1-DCA; 1,2-DCA; MEK (8260B)	X	Settleable Solids (160.5)	X	Total Suspended Solids (160.2)	X	Phenolics (420.1)	X	Hg, Cr(VI), Cu (1669, 7199, 6020)	X	Selenium 5 Day TAT	X	Temperature* = _____	(Temp. as sampled*)	Monthly																														
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	INF-11-25	Influent	11/25/09	1000	WW	8	X	TPH-g (8015M)	X	TPH-g (CS-C14 Only) (8015M)	X	VOCs, Full List (8260B)	X	Oil & Grease (413-1)	X	MMBE; BTEX; 1,1-DCA; 1,2-DCA; MEK (8260B)	X	Settleable Solids (160.5)	X	Total Suspended Solids (160.2)	X	Phenolics (420.1)	X	Hg, Cr(VI), Cu (1669, 7199, 6020)	X	Selenium 5 Day TAT	X	Temperature* = _____	(Temp. as sampled*)	Monthly																																														
Relinquished by: (Signature)		Received by: (Signature) _____		Date: <u>11/25/09</u> Time: <u>10:55</u>																																																																								
Relinquished by: (Signature) _____		Received by: (Signature) _____		Date: _____ Time: _____																																																																								
Relinquished by: (Signature) _____		Received by: (Signature) _____		Date: _____ Time: _____																																																																								

Revised: 07/23/09



WORK ORDER #: 09-11-2080

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KINDER MORGAN

DATE: 11/25/09

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

Temperature 4.1 °C - 0.8 °C (CF) = 3.3 °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: PS

CUSTODY SEALS INTACT:

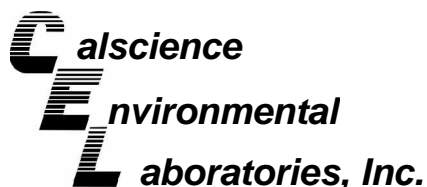
Cooler _____ No (Not Intact) Not Present N/A Initial: PS

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

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"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No 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"/>
Correct containers and 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: <input type="checkbox"/> 4ozCGJ <input checked="" type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input type="checkbox"/> _____			
Water: <input type="checkbox"/> VOA <input checked="" type="checkbox"/> VOAh <input type="checkbox"/> VOAna ₂ <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGBh <input type="checkbox"/> 125AGBp <input type="checkbox"/> 1AGB <input type="checkbox"/> 1AGBna ₂ <input type="checkbox"/> 1AGBs			
<input type="checkbox"/> 500AGB <input checked="" type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJs <input type="checkbox"/> 250AGB <input type="checkbox"/> 250CGB <input type="checkbox"/> 250CGBs <input type="checkbox"/> 1PB <input type="checkbox"/> 500PB <input type="checkbox"/> 500PBna			
<input type="checkbox"/> 250PB <input checked="" type="checkbox"/> 250PBn <input type="checkbox"/> 125PB <input type="checkbox"/> 125PBz _{na} <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJna ₂ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____			
Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Summa® Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Checked by: <u>YL</u>			
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop Reviewed by: <u>DL</u>			
Preservative: h: HCL n: HNO ₃ na ₂ : Na ₂ S ₂ O ₃ Na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ z _{na} : ZnAc ₂ +NaOH f: Field-filtered Scanned by: <u>YL</u>			



VAPOR



November 05, 2009

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

Subject: **Calscience Work Order No.: 09-10-2348**
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 10/29/2009 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".

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: 10/29/09
Work Order No: 09-10-2348
Preparation: N/A
Method: ASTM D-1946

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-10-29	09-10-2348-1-A	10/29/09 13:00	Air	GC 36	N/A	10/29/09 00:00	091029L01

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

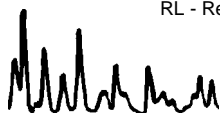
Parameter	Result	RL	MDL	DF	Qual	Units
Methane	ND	0.500	0.0981	1		%v
Carbon Dioxide	1.80	0.500	0.344	1		%v
Oxygen + Argon	18.2	0.500	0.370	1		%v

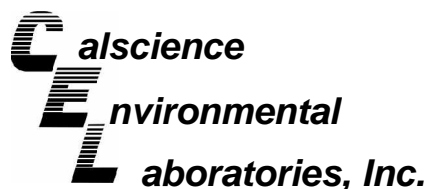
Method Blank	099-03-002-927	N/A	Air	GC 36	N/A	10/29/09 00:00	091029L01
--------------	----------------	-----	-----	-------	-----	-------------------	-----------

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
Methane	ND	0.500	0.0981	1		%v
Carbon Dioxide	ND	0.500	0.344	1		%v
Carbon Monoxide	ND	0.500	0.272	1		%v
Oxygen + Argon	ND	0.500	0.370	1		%v
Nitrogen	ND	0.500	0.174	1		%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: 10/29/09
 Work Order No: 09-10-2348
 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-10-29	09-10-2348-1-A	10/29/09 13:00	Air	GC 13	N/A	10/29/09 15:44	091029L01

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	Units
TPH as Gasoline	77	1.5	0.17	1		ppm (v/v)

Method Blank	098-01-005-2,005	N/A	Air	GC 13	N/A	10/29/09 08:48	091029L01
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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	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: 10/29/09
Work Order No: 09-10-2348
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

Page 1 of 2

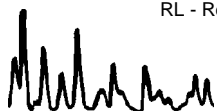
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
INF-10-29	09-10-2348-1-A	10/29/09 13:00	Air	GC/MS YY	N/A	10/29/09 19:39	091029L01

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	800	400	16		t-1,2-Dichloroethene	ND	8.0	3.0	16	
Benzene	350	8.0	1.5	16		t-1,3-Dichloropropene	ND	16	1.6	16	
Benzyl Chloride	ND	24	6.3	16		Ethylbenzene	45	8.0	1.8	16	
Bromodichloromethane	ND	8.0	1.6	16		4-Ethyltoluene	35	8.0	2.9	16	
Bromoform	ND	8.0	2.4	16		Hexachloro-1,3-Butadiene	ND	24	2.9	16	
Bromomethane	ND	8.0	1.5	16		2-Hexanone	ND	24	8.3	16	
2-Butanone	31	24	1.6	16		Methyl-t-Butyl Ether (MTBE)	4.1	32	1.9	16	J
Carbon Disulfide	ND	160	80	16		Methylene Chloride	ND	80	3.0	16	
Carbon Tetrachloride	ND	8.0	1.6	16		4-Methyl-2-Pentanone	ND	24	2.4	16	
Chlorobenzene	ND	8.0	1.7	16		o-Xylene	180	8.0	1.9	16	
Chloroethane	ND	8.0	2.5	16		p/m-Xylene	260	32	12	16	
Chloroform	7.9	8.0	1.4	16	J	Styrene	ND	24	2.9	16	
Chloromethane	ND	8.0	1.6	16		Tetrachloroethene	ND	8.0	1.8	16	
Dibromochloromethane	ND	8.0	1.8	16		Toluene	250	80	32	16	
Dichlorodifluoromethane	4.6	8.0	2.3	16	J	Trichloroethene	4.9	8.0	1.7	16	J
1,1-Dichloroethane	ND	8.0	1.6	16		Trichlorofluoromethane	ND	16	1.2	16	
1,1-Dichloroethene	ND	8.0	1.8	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	24	1.6	16	
1,2-Dibromoethane	ND	8.0	1.8	16		1,1,1-Trichloroethane	ND	8.0	1.6	16	
Dichlorotetrafluoroethane	ND	32	1.8	16		1,1,2-Trichloroethane	ND	8.0	1.9	16	
1,2-Dichlorobenzene	ND	8.0	1.8	16		1,3,5-Trimethylbenzene	110	8.0	2.7	16	
1,2-Dichloroethane	ND	8.0	1.5	16		1,1,2,2-Tetrachloroethane	ND	16	1.7	16	
1,2-Dichloropropane	ND	8.0	1.8	16		1,2,4-Trimethylbenzene	100	24	5.2	16	
1,3-Dichlorobenzene	ND	8.0	2.1	16		1,2,4-Trichlorobenzene	ND	32	12	16	
1,4-Dichlorobenzene	ND	8.0	2.2	16		Vinyl Acetate	ND	32	7.3	16	
c-1,3-Dichloropropene	ND	8.0	2.2	16		Vinyl Chloride	ND	8.0	1.6	16	
c-1,2-Dichloroethene	ND	8.0	2.1	16							
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
1,4-Bromofluorobenzene	100	57-129				1,2-Dichloroethane-d4	96	47-137			
Toluene-d8	96	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: 10/29/09
Work Order No: 09-10-2348
Preparation: N/A
Method: EPA TO-15M
Units: ppb (v/v)

Project: SFPP - Norwalk Site

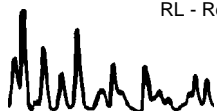
Page 2 of 2

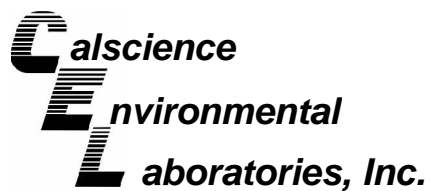
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-981-100	N/A	Air	GC/MS YY	N/A	10/29/09 13:45	091029L01

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	ND	5.0	0.19	1	
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							
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
1,4-Bromofluorobenzene	98	57-129				1,2-Dichloroethane-d4	100	47-137			
Toluene-d8	98	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

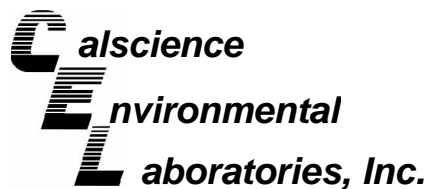
Date Received: 10/29/09
Work Order No: 09-10-2348
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-10-2286-1	Air	GC 13	N/A	10/29/09	091029D01

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	11000	9800	14	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

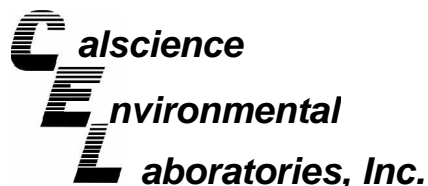
Date Received: N/A
Work Order No: 09-10-2348
Preparation: N/A
Method: ASTM D-1946

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-927	Air	GC 36	N/A	10/29/09	091029L01

<u>Parameter</u>	<u>LCS Conc</u>	<u>LCSD Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon Dioxide	5.330	5.323	0	0-30	
Oxygen + Argon	19.72	19.70	0	0-30	
Nitrogen	74.42	74.36	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: 09-10-2348
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		
099-12-981-100	Air	GC/MS YY	N/A	10/29/09	091029L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	116	113	60-156	44-172	3	0-40	
Carbon Tetrachloride	116	112	64-154	49-169	3	0-32	
1,2-Dibromoethane	117	115	54-144	39-159	2	0-36	
1,2-Dichlorobenzene	121	121	34-160	13-181	0	0-47	
1,2-Dichloroethane	114	107	69-153	55-167	6	0-30	
1,2-Dichloropropane	117	114	67-157	52-172	3	0-35	
1,4-Dichlorobenzene	121	121	36-156	16-176	0	0-47	
c-1,3-Dichloropropene	136	132	61-157	45-173	3	0-35	
Ethylbenzene	122	119	52-154	35-171	3	0-38	
o-Xylene	124	121	52-148	36-164	3	0-38	
p/m-Xylene	104	100	42-156	23-175	3	0-41	
Tetrachloroethene	119	114	56-152	40-168	4	0-40	
Toluene	117	112	56-146	41-161	4	0-43	
Trichloroethene	118	115	63-159	47-175	3	0-34	
1,1,2-Trichloroethane	120	118	65-149	51-163	2	0-37	
Vinyl Chloride	104	102	45-177	23-199	2	0-36	

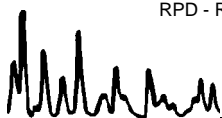
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

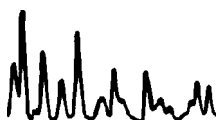
LCS ME CL validation result : Pass

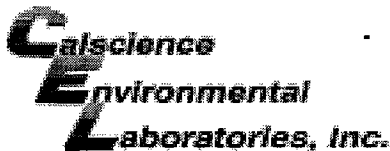
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-10-2348

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.





WORK ORDER #: 09-10-2348

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: KMEP

DATE: 10/29/09

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

Temperature _____ °C - 0.2 °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: D.C.

CUSTODY SEALS INTACT:

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

Initial: D.C.

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"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No 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"/>
Correct containers and 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"/>

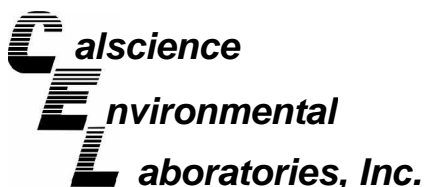
CONTAINER TYPE:

- 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:** D.C.

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **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:** D.C.



December 07, 2009

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

Subject: **CalScience Work Order No.: 09-11-2079**
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 11/25/2009 and analyzed in accordance with the attached chain-of-custody.

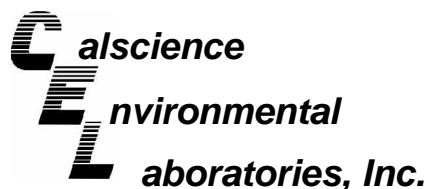
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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".

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: 11/25/09
 Work Order No: 09-11-2079
 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-11-25	09-11-2079-1-A	11/25/09 09:15	Air	GC 34	N/A	11/25/09 00:00	091125L01

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

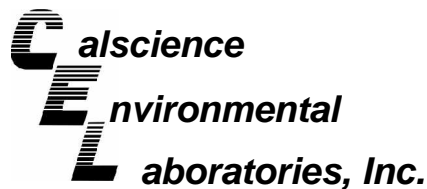
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.098	1		Oxygen + Argon	21.1	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1							

Method Blank	099-03-002-947	N/A	Air	GC 34	N/A	11/25/09 00:00	091125L01
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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	0.098	1		Oxygen + Argon	ND	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1		Nitrogen	ND	0.500	0.174	1	
Carbon Monoxide	ND	0.500	0.272	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: 11/25/09
Work Order No: 09-11-2079
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-11-25	09-11-2079-1-A	11/25/09 09:15	Air	GC 53	N/A	11/25/09 14:14	091125L01

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	14	1.5	0.17	1		ppm (v/v)

Method Blank	098-01-005-2,036	N/A	Air	GC 53	N/A	11/25/09 09:08	091125L01
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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: 11/25/09
Work Order No: 09-11-2079
Preparation: N/A
Method: EPA TO-15
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-11-25	09-11-2079-1-A	11/25/09 09:15	Air	GC/MS K	N/A	11/26/09 05:06	091125L01

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	94	6.4	0.62	3.2		t-1,2-Dichloroethene	ND	1.6	0.60	3.2	
Benzene	110	1.6	0.30	3.2		t-1,3-Dichloropropene	ND	3.2	0.33	3.2	
Benzyl Chloride	ND	4.8	1.3	3.2		Ethylbenzene	12	1.6	0.36	3.2	
Bromodichloromethane	ND	1.6	0.33	3.2		4-Ethyltoluene	8.3	1.6	0.58	3.2	
Bromoform	ND	1.6	0.49	3.2		Hexachloro-1,3-Butadiene	ND	4.8	0.58	3.2	
Bromomethane	ND	1.6	0.30	3.2		2-Hexanone	ND	4.8	1.7	3.2	
2-Butanone	2.9	4.8	0.32	3.2	J	Methyl-t-Butyl Ether (MTBE)	11	6.4	0.38	3.2	
Carbon Disulfide	4.1	6.4	0.32	3.2	J	Methylene Chloride	2.0	16	0.60	3.2	J
Carbon Tetrachloride	ND	1.6	0.32	3.2		4-Methyl-2-Pentanone	ND	4.8	0.48	3.2	
Chlorobenzene	ND	1.6	0.35	3.2		o-Xylene	76	1.6	0.39	3.2	
Chloroethane	ND	1.6	0.49	3.2		p/m-Xylene	88	6.4	2.4	3.2	
Chloroform	0.86	1.6	0.29	3.2	J	Styrene	ND	4.8	0.57	3.2	
Chloromethane	0.86	1.6	0.31	3.2	J	Tetrachloroethene	0.92	1.6	0.35	3.2	J
Dibromochloromethane	ND	1.6	0.36	3.2		Toluene	110	1.6	0.38	3.2	
Dichlorodifluoromethane	1.8	1.6	0.46	3.2		Trichloroethene	1.3	1.6	0.34	3.2	J
1,1-Dichloroethane	ND	1.6	0.33	3.2		Trichlorofluoromethane	1.2	3.2	0.25	3.2	J
1,1-Dichloroethene	ND	1.6	0.35	3.2		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.65	4.8	0.32	3.2	J
1,2-Dibromoethane	ND	1.6	0.36	3.2		1,1,1-Trichloroethane	ND	1.6	0.32	3.2	
Dichlorotetrafluoroethane	ND	6.4	0.35	3.2		1,1,2-Trichloroethane	ND	1.6	0.39	3.2	
1,2-Dichlorobenzene	ND	1.6	0.35	3.2		1,3,5-Trimethylbenzene	31	1.6	0.54	3.2	
1,2-Dichloroethane	ND	1.6	0.30	3.2		1,1,2,2-Tetrachloroethane	ND	3.2	0.34	3.2	
1,2-Dichloropropane	ND	1.6	0.37	3.2		1,2,4-Trimethylbenzene	20	4.8	1.0	3.2	
1,3-Dichlorobenzene	ND	1.6	0.42	3.2		1,2,4-Trichlorobenzene	ND	6.4	2.3	3.2	
1,4-Dichlorobenzene	ND	1.6	0.43	3.2		Vinyl Acetate	ND	6.4	1.5	3.2	
c-1,3-Dichloropropene	ND	1.6	0.45	3.2		Vinyl Chloride	ND	1.6	0.32	3.2	
c-1,2-Dichloroethene	ND	1.6	0.42	3.2							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	110	57-129		1,2-Dichloroethane-d4	93	47-137	
Toluene-d8	90	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: 11/25/09
Work Order No: 09-11-2079
Preparation: N/A
Method: EPA TO-15
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	095-01-021-8,274	N/A	Air	GC/MS K	N/A	11/25/09 23:07	091125L01

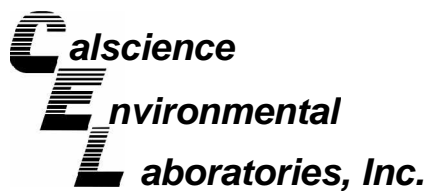
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	2.0	0.19	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	2.0	0.099	1		Methylene Chloride	ND	5.0	0.19	1	
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	0.50	0.12	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 Limits	Qual
1,4-Bromofluorobenzene	97	57-129		1,2-Dichloroethane-d4	96	47-137	
Toluene-d8	96	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

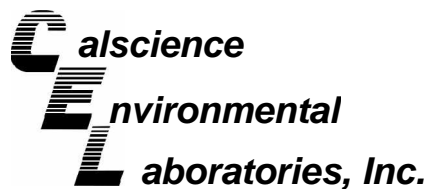
Date Received: 11/25/09
Work Order No: 09-11-2079
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-11-2075-3	Air	GC 53	N/A	11/25/09	091125D01

<u>Parameter</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	1500	1600	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

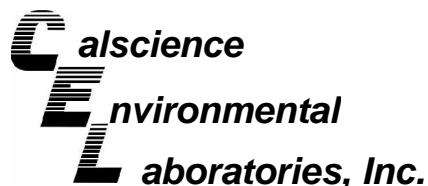
Date Received: N/A
Work Order No: 09-11-2079
Preparation: N/A
Method: ASTM D-1946

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-947	Air	GC 34	N/A	11/25/09	091125L01

<u>Parameter</u>	<u>LCS Conc</u>	<u>LCSD Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon Dioxide	4.964	5.008	1	0-30	
Oxygen + Argon	19.44	19.55	1	0-30	
Nitrogen	75.28	75.68	1	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: 09-11-2079
Preparation: N/A
Method: EPA TO-15

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-021-8,274	Air	GC/MS K	N/A	11/25/09	091125L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	111	110	60-156	44-172	1	0-40	
Carbon Tetrachloride	117	113	64-154	49-169	4	0-32	
1,2-Dibromoethane	114	115	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	116	115	34-160	13-181	1	0-47	
1,2-Dichloroethane	111	109	69-153	55-167	2	0-30	
1,2-Dichloropropane	114	113	67-157	52-172	1	0-35	
1,4-Dichlorobenzene	116	115	36-156	16-176	1	0-47	
c-1,3-Dichloropropene	130	128	61-157	45-173	1	0-35	
Ethylbenzene	114	115	52-154	35-171	1	0-38	
o-Xylene	114	116	52-148	36-164	1	0-38	
p/m-Xylene	105	106	42-156	23-175	0	0-41	
Tetrachloroethene	112	111	56-152	40-168	1	0-40	
Toluene	113	113	56-146	41-161	0	0-43	
Trichloroethene	114	112	63-159	47-175	2	0-34	
1,1,2-Trichloroethane	116	115	65-149	51-163	1	0-37	
Vinyl Chloride	116	107	45-177	23-199	7	0-36	

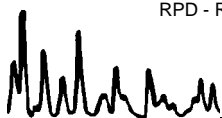
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

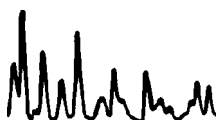
LCS ME CL validation result : Pass

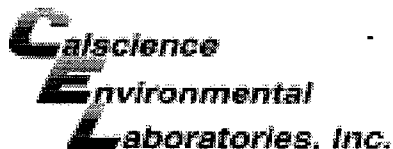
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-11-2079

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.





WORK ORDER #: 09-11-2079

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: KINDER MORGAN

DATE: 11/25/09

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

Temperature _____ °C - 0.8°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: PS

CUSTODY SEALS INTACT:

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

Sample _____ No (Not Intact) Not Present Initial: W.S.C.

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"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No 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"/>
Correct containers and 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 VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

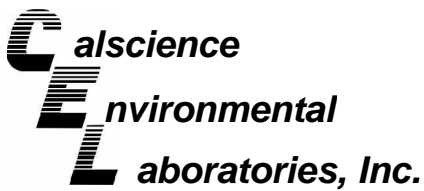
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

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

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** W.S.C.

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

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



December 21, 2009

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

Subject: **Calscience Work Order No.: 09-12-1319**
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 12/15/2009 and analyzed in accordance with the attached chain-of-custody.

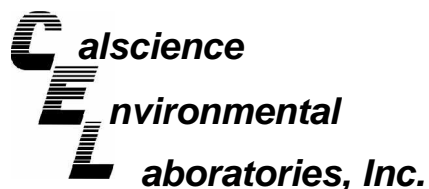
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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".

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: 12/15/09
 Work Order No: 09-12-1319
 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-12-15	09-12-1319-1-A	12/15/09 12:05	Air	GC 36	N/A	12/15/09 00:00	091215L01

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

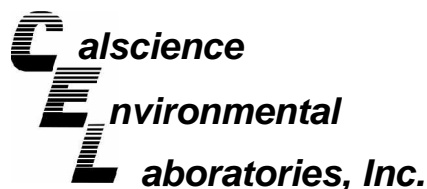
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Methane	ND	0.500	0.098	1		Oxygen + Argon	21.7	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1							

Method Blank	099-03-002-963	N/A	Air	GC 36	N/A	12/15/09 00:00	091215L01
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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	0.098	1		Oxygen + Argon	ND	0.500	0.370	1	
Carbon Dioxide	ND	0.500	0.344	1		Nitrogen	0.347	0.500	0.174	1	J
Carbon Monoxide	ND	0.500	0.272	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: 12/15/09
Work Order No: 09-12-1319
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-12-15	09-12-1319-1-A	12/15/09 12:05	Air	GC 13	N/A	12/15/09 14:08	091215L01

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	6.6	1.5	0.17	1		ppm (v/v)

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-2,056	N/A	Air	GC 13	N/A	12/15/09 09:10	091215L01

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: 12/15/09
Work Order No: 09-12-1319
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-12-15	09-12-1319-1-A	12/15/09 12:05	Air	GC/MS YY	N/A	12/15/09 19:44	091215L01

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	80	40	1.6		t-1,2-Dichloroethene	ND	0.80	0.30	1.6	
Benzene	28	0.80	0.15	1.6		t-1,3-Dichloropropene	ND	1.6	0.16	1.6	
Benzyl Chloride	ND	2.4	0.63	1.6		Ethylbenzene	3.1	0.80	0.18	1.6	
Bromodichloromethane	ND	0.80	0.16	1.6		4-Ethyltoluene	2.7	0.80	0.29	1.6	
Bromoform	ND	0.80	0.24	1.6		Hexachloro-1,3-Butadiene	ND	2.4	0.29	1.6	
Bromomethane	ND	0.80	0.15	1.6		2-Hexanone	ND	2.4	0.83	1.6	
2-Butanone	5.8	2.4	0.16	1.6		Methyl-t-Butyl Ether (MTBE)	ND	3.2	0.19	1.6	
Carbon Disulfide	ND	16	8.0	1.6		Methylene Chloride	0.43	8.0	0.30	1.6	J
Carbon Tetrachloride	ND	0.80	0.16	1.6		4-Methyl-2-Pentanone	ND	2.4	0.24	1.6	
Chlorobenzene	ND	0.80	0.17	1.6		o-Xylene	24	0.80	0.19	1.6	
Chloroethane	ND	0.80	0.25	1.6		p/m-Xylene	23	3.2	1.2	1.6	
Chloroform	ND	0.80	0.14	1.6		Styrene	ND	2.4	0.29	1.6	
Chloromethane	0.49	0.80	0.16	1.6	J	Tetrachloroethene	0.56	0.80	0.18	1.6	J
Dibromochloromethane	ND	0.80	0.18	1.6		Toluene	20	8.0	3.2	1.6	
Dichlorodifluoromethane	0.47	0.80	0.23	1.6	J	Trichloroethene	0.91	0.80	0.17	1.6	
1,1-Dichloroethane	ND	0.80	0.16	1.6		Trichlorofluoromethane	ND	1.6	0.12	1.6	
1,1-Dichloroethene	ND	0.80	0.18	1.6		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.4	0.16	1.6	
1,2-Dibromoethane	ND	0.80	0.18	1.6		1,1,1-Trichloroethane	ND	0.80	0.16	1.6	
Dichlorotetrafluoroethane	ND	3.2	0.18	1.6		1,1,2-Trichloroethane	ND	0.80	0.19	1.6	
1,2-Dichlorobenzene	ND	0.80	0.18	1.6		1,3,5-Trimethylbenzene	13	0.80	0.27	1.6	
1,2-Dichloroethane	ND	0.80	0.15	1.6		1,1,2,2-Tetrachloroethane	ND	1.6	0.17	1.6	
1,2-Dichloropropane	ND	0.80	0.18	1.6		1,2,4-Trimethylbenzene	5.8	2.4	0.52	1.6	
1,3-Dichlorobenzene	ND	0.80	0.21	1.6		1,2,4-Trichlorobenzene	ND	3.2	1.2	1.6	
1,4-Dichlorobenzene	ND	0.80	0.22	1.6		Vinyl Acetate	ND	3.2	0.73	1.6	
c-1,3-Dichloropropene	ND	0.80	0.22	1.6		Vinyl Chloride	ND	0.80	0.16	1.6	
c-1,2-Dichloroethene	ND	0.80	0.21	1.6							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	57-129		1,2-Dichloroethane-d4	106	47-137	
Toluene-d8	90	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: 12/15/09
Work Order No: 09-12-1319
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	099-12-981-212	N/A	Air	GC/MS YY	N/A	12/15/09 12:53	091215L01

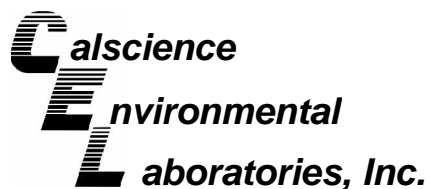
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

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	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	ND	5.0	0.19	1	
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 Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	109	47-137	
Toluene-d8	99	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

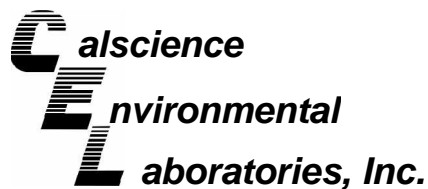
Date Received: 12/15/09
Work Order No: 09-12-1319
Preparation: N/A
Method: EPA TO-3M

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
INF-12-15	Air	GC 13	N/A	12/15/09	091215D01

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	6.6	6.5	2	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

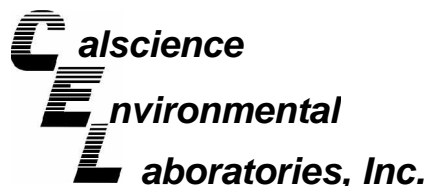
Date Received: N/A
Work Order No: 09-12-1319
Preparation: N/A
Method: ASTM D-1946

Project: SFPP - Norwalk Site

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-963	Air	GC 36	N/A	12/15/09	091215L01

<u>Parameter</u>	<u>LCS Conc</u>	<u>LCSD Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon Dioxide	5.334	5.366	1	0-30	
Oxygen + Argon	19.93	19.77	1	0-30	
Nitrogen	75.02	74.56	1	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: 09-12-1319
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		
099-12-981-212	Air	GC/MS YY	N/A	12/15/09	091215L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	83	88	60-156	44-172	6	0-40	
Carbon Tetrachloride	83	86	64-154	49-169	5	0-32	
1,2-Dibromoethane	82	92	54-144	39-159	11	0-36	
1,2-Dichlorobenzene	92	103	34-160	13-181	12	0-47	
1,2-Dichloroethane	88	90	69-153	55-167	1	0-30	
1,2-Dichloropropane	87	92	67-157	52-172	5	0-35	
1,4-Dichlorobenzene	88	99	36-156	16-176	12	0-47	
c-1,3-Dichloropropene	96	101	61-157	45-173	6	0-35	
Ethylbenzene	86	96	52-154	35-171	11	0-38	
o-Xylene	87	98	52-148	36-164	12	0-38	
p/m-Xylene	77	87	42-156	23-175	11	0-41	
Tetrachloroethene	79	88	56-152	40-168	10	0-40	
Toluene	84	93	56-146	41-161	10	0-43	
Trichloroethene	84	88	63-159	47-175	5	0-34	
1,1,2-Trichloroethane	88	93	65-149	51-163	6	0-37	
Vinyl Chloride	96	97	45-177	23-199	1	0-36	

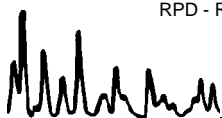
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

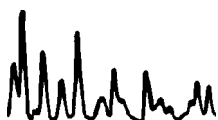
LCS ME CL validation result : Pass

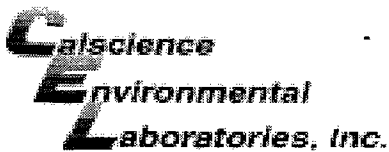
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-12-1319

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.





WORK ORDER #: 09-12-1319

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: KINDER MORGAN ENERGY PARTNERS

DATE: 12/15/09

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

Temperature _____ °C - 0.8°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: PS

CUSTODY SEALS INTACT:

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

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

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"/>
Correct containers and 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_{znna} 100PJ 100PJ_{na2} _____ _____ _____

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

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

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