First Quarter 2011 Remediation Progress Report Defense Fuel Support Point Norwalk, California

Prepared for

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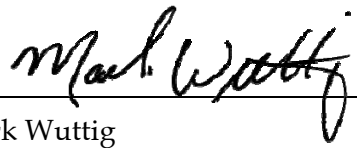

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Acronyms and Abbreviations

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
ASTM	American Society for Testing and Materials
ATL	Advanced Technology Laboratories
DFSP	Defense Fuel Support Point
DPE	dual-phase extraction
EPA	United States Environmental Protection Agency
FBBR	fluidized bed bioreactor
GAC	granular activated carbon
Geomatrix	Geomatrix Consultants, Inc.
GWE	groundwater extraction
KMEP	Kinder Morgan Energy Partners, L.P.
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
PID	photoionization detector
ppmv	parts per million by volume
RBCA	Risk-Based Corrective Action
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SCAQMD	South Coast Air Quality Management District
Second Addendum	Second Addendum to the Remedial Action Plan, November 30, 2006
SFPP	SFPP, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
TPH-fp	total petroleum hydrocarbons characterized as fuel products
TPH-g	total petroleum hydrocarbons quantified as gasoline

VOC	volatile organic compound
WDR	Waste Discharge Requirement
WSB	West Side Barrier

1. Introduction

CH2M HILL 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 (DFSP) located at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the first quarter 2011 reporting period.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in its letter dated October 25, 2006 (RWQCB, 2006), and in accordance with the Second Addendum to the Remedial Action Plan (Second Addendum) dated November 30, 2006 (Geomatrix Consultants, Inc. [Geomatrix], 2006). Implementation of the Second Addendum was approved by the RWQCB on April 2, 2007. Additional background information can be found in the Second Addendum and in previously submitted semiannual groundwater monitoring reports for the site.

This report summarizes the remediation systems present at the site and describes implementation of the Second Addendum for the period January through March 2011 with documentation of the following tasks:

- Operations and maintenance (O&M) of remediation systems performed by SFPP field personnel
- Remediation system evaluation

The remediation activities performed during January through March 2011 and the progress achieved through those activities are summarized in the following sections.

2. Remediation Systems

SFPP currently operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater using a top-loading pump), groundwater extraction (GWE; extraction of groundwater using a bottom-loading pump), 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 (WSB) groundwater extraction system (WSB system) for remediation of the western offsite area was discontinued in August 2008. During the second quarter 2010, two WSB wells were temporarily operated to control the selenium concentration in extracted groundwater as discussed in the Selenium Management Evaluation Update submitted to the RWQCB on June 10, 2010 (AMEC, 2010a). Blending of extracted groundwater from the WSB system with groundwater from the south-central and southeastern areas was discontinued on June 22, 2010.

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 preheated 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 offsite location. Water from the oil-water separator is treated using liquid-phase granular activated carbon (LGAC). A six-tray air stripper is present onsite, but is not currently in use. Treated water is routed through an onsite 8,000-gallon effluent storage tank prior to discharge in accordance with a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0063509, CI No. 7497). Two temporary fluidized bed bioreactors (FBBRs) are being installed downstream of the LGAC units to treat tertiary butyl alcohol (TBA), a new discharge parameter in the Revised Tentative Waste Discharge Requirements (WDRs) issued by the RWQCB on March 11, 2011.

A summary of remediation wells in the south-central, southeastern, and WSB areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the first quarter 2011. The remediation system layout is presented in Figure 2.

3. Operations and Maintenance

Tasks performed for O&M 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)
- Removal, inspection, and repair of TFE/GWE pumps and associated discharge lines
- Measurements of individual well vapor concentrations
- Collection and analysis of system influent vapor and groundwater samples
- Gauging of selected remediation wells
- Troubleshooting of the SVE and TFE/GWE systems

In addition, system effluent vapor and water samples were collected and analyzed for compliance with the SCAQMD and NPDES permits. The effluent water sampling results will be provided under separate cover in the NPDES effluent monitoring report for the first quarter 2011 period.

During this reporting period, remediation system inspections were performed on a weekly basis. For these inspections, vapor flow rate, vacuum, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation. Remediation system operation activities for the first quarter 2011 are summarized in Tables 2 and 3. The remediation systems operated during the first quarter 2011 with the following exceptions.

- The SVE and TFE/GWE systems were shut down on January 4, 2011, to clean the oil-water separator. The systems were restarted on the same day.
- The SVE system was shut down between January 7 and January 14, 2011, to allow pumping water levels and groundwater samples to be collected for the January 2011 sentry groundwater monitoring event.
- The SVE system was shut down on January 21, 2011, to drain water due to condensation from the knock-out tank. The system was restarted on the same day.
- The SVE system was shut down on January 25, 2011, to inspect the wiring of the thermocouples. The system was restarted on the same day.
- The SVE and TFE/GWE systems were shut down on January 26, 2011, to change the granulated activated carbon (GAC) from the lead vessel. The systems were restarted on the same day.
- The SVE and TFE/GWE systems were shut down on February 8, 2011, to change the GAC from the second vessel. Water from the SVE manifold was also drained while the system was off. The systems were restarted on the same day.

- The SVE system was off upon arrival on February 15, 2011. There were no alarms that indicated the reason for the shutdown. The system was restarted on the same day.
- The TFE/ GWE system was off upon arrival on February 22, 2011, due to a high water level alarm at the transfer tank. The bag filters were clogged, which caused the high water level in the transfer tank. The bag filters were replaced, and the system was restarted.
- The TFE/GWE system was off upon arrival on February 28, 2011, due to an inoperable transfer pump. The transfer pump was replaced, and the system was restarted on March 18, 2011.
- The SVE system was shut down on March 1, 2011, to inspect and upgrade the wiring and controls to the SVE. During the inspection, the low pressure natural gas switch was found to be faulty. The low-pressure switch was replaced, and the system was restarted on March 29, 2011.

As stated in the January and February 2011 Remediation System Operational Status reports, no flow occurred from the southeastern area wells to the TFE/GWE system during the first week of February 2011 due to a break in the 1-inch-diameter water line near well GMW-36. The 1-inch-diameter water line to this well is encased by a 4-inch-diameter vapor line; therefore, the extracted groundwater that leaked from the 1-inch-diameter line was contained in the outer 4-inch-diameter line. The line was repaired on February 10, 2011, immediately after the break was discovered, and normal groundwater extraction from this area subsequently resumed.

Overall, during the first quarter 2011, the SVE system operated approximately 61 percent of the time, while the TFE/GWE system operated approximately 74 percent of the time.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the first quarter 2011 when the systems were in operation. During the first quarter 2011, influent vapor samples were collected on January 14, February 8, and March 29, 2011, when the SVE system was operating. Influent water samples were collected on January 14, February 8, and March 25, 2011, when the TFE/GWE systems were operating. The vapor and water samples were delivered to Advanced Technology Laboratories (ATL), which is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program, for analysis. ATL analyzed the vapor samples for the following:

- Fixed gases (methane, carbon dioxide, oxygen, and argon) using American Society for Testing and Materials (ASTM) D-1946
- Total petroleum hydrocarbons quantified as gasoline (TPH-g) using United States Environmental Protection Agency (EPA) Method TO-3
- VOCs using EPA Method TO-15

ATL analyzed the water samples for the following:

- TPH-g and TPH characterized as fuel product (TPH-fp) using EPA Method 8015(M)
- VOCs using EPA Method 8260B

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

VOC concentrations in vapors extracted from individual SVE wells were measured in the field using a photoionization detector (PID) calibrated using 50 parts per million by volume (ppmv) of hexane. The individual well vapor readings are summarized in Table 6. VOC concentrations in vapors extracted from individual SVE wells were not measured in March, because the system was off most of the month. 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. 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 6,561 pounds during the first quarter 2011, for a cumulative mass removal of approximately 27,069 pounds since implementing the Second Addendum system upgrades, and over 3 million pounds since the SVE system began operation in 1995 (Table 2). The cumulative mass removed by SVE does not include the mass removed by biodegradation.

Approximately 3,135,028 gallons of groundwater was extracted during the first quarter 2011. This total includes approximately 2,820,685 gallons of water from the south-central area and 314,343 gallons of water from the southeastern area (Table 3). No water was extracted from the WSB area.

Groundwater extraction was discontinued in the WSB region during the third quarter 2008 based on the reduced lateral extent and low concentrations of methyl tertiary 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 (µg/L) and 70 µg/L, respectively. 1,2-DCA, MTBE, and TBA concentrations in the western area continue to be monitored; other wells in the WSB system will be restarted if necessary.

Removal of free product using TFE continued during the first quarter 2011. 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 TPH-g results for influent water samples and total groundwater extracted, the mass of TPH-g removed by TFE and GWE in the south-central and southeastern areas was approximately 142 pounds during the first quarter 2011, for a cumulative mass removed from these areas of approximately 1,343 pounds since implementing the system upgrades described in the Second Addendum (Table 3). TPH-fp also was detected in the influent water samples; however, TPH-fp results were not used to calculate mass removal for dissolved petroleum hydrocarbons because the ranges of hydrocarbons for TPH-g and TPH-fp overlap. Because the nonoverlapping portion of the TPH-fp 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. System Evaluation and Optimization

For the SVE treatment system, during the first quarter 2011, vapor-phase VOC concentrations were measured in individual wells using a PID on January 19 and February 8, 2011, as shown in Table 6. The operation status of the SVE wells at the end of the first quarter 2011 is also shown in Table 6. PID readings recorded on January 19 and February 8, 2011, indicate VOC concentrations are close to or higher than 100 ppmv in several SVE wells; therefore, the SVE system will be operated until influent VOC concentrations reach low asymptotic levels. VOC concentrations in vapors extracted from individual SVE wells were not measured in March, because the system was off most of the month.

Groundwater monitoring in the WSB region during the first quarter 2011 supports the continued shutdown of GWE in the region. 1,2-DCA, MTBE, and TBA concentrations in the western area will continue to be monitored; the WSB system will be restarted if necessary.

As shown in Table 7, groundwater elevations and product thicknesses in the south-central area have generally decreased since implementing the Second Addendum. During the first quarter 2011, free product was detected in four remediation wells (GMW-36, GMW-O-12, GMW-O-20, and MW-SF-2). 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; remediation pump settings will be adjusted accordingly to optimize free product recovery and enhance hydraulic control of dissolved plumes.

The systems currently consist of 20 wells operated for product recovery and hydraulic control in the south-central part of the site (including 18 wells operated for TFE and two wells operated for GWE), and 3 wells equipped with TFE pumps operated for product recovery and hydraulic control in the southeastern part of the site (Table 1). At the end of the first quarter 2011, there were four TFE/GWE wells online from the south-central area (MW-SF-13, MW-SF-14, MW-SF-15, and MW-SF-16) and three wells from the southeastern area (GMW-O-15, GMW-O-18, and GMW-36). During the first quarter 2011, the GAC was changed out three times. Frequent change-outs of the carbon may be a result of higher flow to the system and fouling of the lead carbon vessel. More frequent backwashing of the lead carbon vessels and bag filters, and possible reduction of the bag filter size, will be implemented to resolve the fouling issue. Additional extraction wells will brought online during the second quarter 2011, as needed.

The installation of a temporary FBBR and associated appurtenances (e.g., piping and electrical) began during the first quarter 2011. The FBBR will be used in conjunction with the existing groundwater treatment system to treat TBA. A second (temporary) FBBR is anticipated to be installed by the fourth quarter 2011 to increase treatment capacity.

6. Planned Second Quarter 2011 Activities

During the second quarter 2011, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. Installation of the initial FBBR will continue, and a second FBBR unit is planned to be installed by the fourth quarter 2011. Concentrations of 1,2-DCA, MTBE, and TBA in the western area will continue to be monitored; the WSB system will be restarted if necessary. The TFE, GWE, and SVE systems for the south-central and southeastern areas will continue to operate. Operation of the TFE system in the southeastern area will be monitored closely, and adjustments will be made to improve fluid recovery. System inspections will continue on a weekly basis; system evaluation parameters will be collected as needed. The remediation activities and progress for the second quarter 2011 will be described in the second quarter 2011 remediation progress report to be submitted by July 15, 2011.

7. References

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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 2011[1]
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	OFF; OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	OFF; OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF; OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF; OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	OFF; OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF; **ON**
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF; **ON**
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	**ON; ON**
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	**ON; ON**
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	**ON**
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF; OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	OFF; OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	OFF; OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	**ON;** OFF
	VEW-1	--	--	--	SVE	OFF
	VEW-2	--	--	--	SVE	OFF
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	**ON;** OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	**ON**; OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	**ON**; OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	**ON**
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	**ON**; OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	**ON;** OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF
	HW-2	--	--	--	SVE	OFF
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	**ON; ON**
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	**ON; ON**
	GMW-36	4/11/1994	74.53	20 - 50	TFE	**ON**
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	OFF

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

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

TABLE 2
Vapor Remediation System Operation Summary
SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent TPH-g Concentration (ppmv)[1]	Influent FID or PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum ("H_2O)	Mass Removed (pounds)[2]
2007 Totals[3]	**58,319**	**2,058**	--	**--**	**--**	**--**	**3,742**
2008 Totals	**64,233**	**5,915**	**--**	**--**	**--**	**--**	**5,878**
2009 Totals	**68,858**	**4,625**	**--**	**--**	**--**	**--**	**9,387**
2010 Totals	**72,369**	**3,511**	**--**	**--**	**--**	**--**	**1,501**
01/04/11	72,534.4	165	--	4	2,048	20	6
01/14/11	72,606.2	72	68	35	1,854	50	52
01/19/11	72,722.3	116	--	12	1,849	50	39
01/25/11	72,866.1	144	--	18	1,858	50	71
02/01/11	73,027.7	162	--	17	1,839	50	75
02/08/11	73,194.4	167	210	1,249	1,882	50	5,880
02/18/11	73,409.0	215	--	33	1,916	50	205
02/22/11	73,504.2	95	--	54	2,170	50	168
03/01/11	73,661.5	157	--	15	1,861	50	66
03/29/11	73,662.1	1	5000	10	1,919	60	0
First Quarter 2011 Totals	**73,734**	**1,293**	**--**	**--**	**--**	**--**	**6,561**
Cumulative Mass Removed Since Implementation of RAP Upgrades[4]							**27,069**

Notes
1. The TPH-g 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.
2. The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.
3. The 2007 total includes only operation after upgrades were made to the south-central system.
4. Upgrades to the south-central system are described in the Second Addendum to Remedial Action Plan.

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

Abbreviations
TPH-g = total petroleum hydrocarbons as gasoline (C4-C12)
ppmv = parts per million by volume
FID = flame ionization detector
PID = photoionization detector
scfm = standard cubic feet per minute
H_20 = inches of water
-- = not applicable or not available

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 TPH-g Concentration (µg/L)[1]	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds)[2]
2007 Totals[3]	**2,080,762**	**529,411**	**630,877**	**--**	**395**
2008 Totals	**5,391,860**	**700,882**	**405,954[4]**	**--**	**311**
2009 Totals	**8,044,836**	**770,869**	**0**	**--**	**161**
2010 Totals	**3,699,058**	**2,025,777**	**2,244**	**--**	**334**
1/4/11	257,320	0	0	7,100	15.22
1/7/11	103,344	0	0	7,100	6.11
1/11/11	134,053	0	0	7,100	7.93
1/14/11	104,826	0	0	7,400	6.46
1/19/11	192,290	0	0	7,400	11.85
1/21/11	71,291	16	0	7,400	4.40
1/25/11	142,737	0	0	7,400	8.80
1/26/11	30,137	0	0	7,400	1.86
1/28/11	65,959	7	0	7,400	4.07
2/1/11	133,382	0	0	7,400	8.22
2/4/11	118,102	0	0	7,400	7.28
2/8/11	149,246	2	0	5,600	6.96
2/10/11	87,042	24	0	5,600	4.06
2/15/11	274,300	87	0	5,600	12.80
2/18/11	152,885	44,233	0	5,600	7.13
2/22/11	58,548	14,271	0	5,600	2.73
2/25/11	139,991	47,022	0	5,600	6.53
3/18/11	84,161	35,815	0	5,600	3.93
3/22/11	111,110	52,406	0	5,600	5.18
3/25/11	139,011	37,344	0	3,100	3.59
4/1/11	270,950	83,116	0	3,100	7.00
First Quarter 2011 Totals	**2,820,685**	**314,343**	**0**	**--**	**142**
Cumulative TPH-g Removed Since Implementation of RAP Upgrades[5]					**1,343**

Notes

1. The TPH-g concentration reflects analytical results for samples collected from the influent of the Total Fluids Extractions (TFE) system that extracts groundwater from the south-central, southeastern, and West Side Barrier 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 TPH-g removed.
2. The mass of TPH-g removed (pounds) is based on concentrations of dissolved TPH-g in the most recent TFE system influent samples and the volume of groundwater extracted by TFE. Total petroleum hydrocarbons characterized as fuel products (TPH-fp) also were detected in the TFE system influent samples (see Table 5) but were not used in estimating the mass of petroleum hydrocarbons removed from groundwater.
3. The 2007 total includes only operation after upgrades were made to the south-central system.
4. Groundwater removal in the West Side Barrier Area was discontinued in August, 2008. Groundwater extraction from West Side Barrier Area wells BW-3 and BW-6 was resumed on May 14, 2010 to evaluate the efficacy of blending water with lower-selenium-concentrations from these wells with groundwater extracted from the south-central and southeastern areas. Groundwater removal from the West Side Barrier area was discontinued again on June 22, 2010.
5. Upgrades to the south-central remediation system are described in the Second Addendum to Remedial Action Plan.

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

Abbreviations

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

TABLE 4

Extracted Vapor Analytical Results[1]

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)	Carbon Dioxide (%v)	Oxygen & Argon (%v)	TPH-g (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
8/3/2007	ON	<0.5	<0.5	22.0	63	650	220	1,100	1,420	55
9/5/2007	OFF	<0.5	<0.5	22.0	9	32	48	140	320	18
10/2/2007	ON	<0.5	<0.5	21.9	27	250	75	430	610	20
11/2/2007	ON	<0.5	<0.5	22.1	5	40	10	74	95	7
2/1/2008	ON	<0.5	<0.5	21.8	100	830	260	2,200	1,850	<50
3/4/2008	ON	<0.5	<0.5	21.7	50	380	98	570	1,250	36
4/8/2008	OFF	<0.5	<0.5	22.2	69	290	110	480	1,040	41
5/23/2008	OFF	<0.5	<0.5	21.8	14	180	24	190	280	23
6/3/2008	OFF	<0.5	<0.5	21.7	30	380	42	400	330	70
7/2/2008	ON	<0.5	<0.5	21.4	49	32	6	34	45	10
8/19/2008	ON	<0.5	1.7	20.8	50	390	63	230	450	40
9/5/2008	ON	<0.5	2.0	21.2	22	130	39	130	340	42
10/7/2008	ON	<0.5	1.43	21.4	10	41	15	54	181	6.8
11/4/2008	ON	<0.5	2.08	21.1	7.5	31	47	190	242	<2.0
3/6/2009	ON	<0.5	<0.5	22.0	83	1,900	180	990	770	240
4/17/2009	ON	<0.5	<0.5	22.2	3.1	140	8	37	68	26
5/29/2009	ON	<0.5	1.08	21.0	130	1,700	640	3,700	3,100	100
8/18/2009	ON	<0.5	0.78	21.7	28	380	37	290	310	33
8/25/2009	ON	<0.5	0.87	20.6	37	500	44	320	293	20
9/18/2009	ON	<0.5	0.37	21.6	11	75	11	39	107	3
10/29/2009	ON	<0.5	1.80	18.2	77	350	45	250	440	4
11/25/2009	ON	<0.5	<0.5	21.1	14	110	12	110	164	11
12/15/2009	OFF	<0.5	<0.5	21.7	7	28	3	20	47	<3.2
2/26/2010	ON	<0.5	0.4	21.2	20	300	18	220	260	21
3/26/2010	ON	<0.5	1.0	20.2	18	380	20	110	90	5
5/4/2010	ON	<0.5	0.4	21.4	13	100	42	170	222	3
6/29/2010	ON	<0.5	0.4	21.3	9	74	13	66	82	<5.0
8/3/2010	ON	<0.5	0.6	20.4	29	210	13	64	85	9
8/31/2010	ON	0.0039	<0.5	21.4	11	72	12	66	87	8
9/14/2010	ON	<0.5	<0.5	21.6	6	63	15	57	84	<3.2
11/2/2010	ON	--	--	--	11	140	<10	31	28	<10
11/17/2010	ON	0.00075	0.4	22.0	--	--	--	--	--	--
12/28/2010	ON	0.0052	0.27	22.0	16	160	37	230	324	4.5
1/14/2011	ON	0.016	0.20	22.0	68	340	34	89	183	<10
2/8/2011	ON	0.026	0.24	21.0	210	3,000	1,700	11,000	7,400	110.0
3/29/2011	ON	0.013	0.13	20.0	5,000	170	15	18	41.5	<2.5

Notes

1. Influent vapor samples were collected from the manifold conveying soil vapors extracted from the south-central and southeastern areas.
2. Other detected volatile organic compounds (VOCs) are included in the laboratory analytical reports in Appendix A.
3. Method used is SCAQMD 25.1M.

Abbreviations

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

TABLE 5
Extracted Groundwater Analytical Results[1]
SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Date Sampled	EPA 8015M		EPA 8260B Volatile Organic Compounds (VOCs)[2]				
	TPH-g (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
7/11/2007	--	--	4,800	130	890	1,040	690
8/7/2007	14,000	11,000	5,400	140	1,100	770	540
9/25/2007	12,000	30,000	3,400	310	1,600	2,390	540
10/16/2007	8,900	8,400	3,400	94	520	660	390
11/2/2007	44,000	6,500	3,200	130	860	1,160	570
11/30/2007	6,000	5,200	1,800	48	170	490	450
12/21/2007	7,200	4,200	2,100	41	170	430	750
1/4/2008	4,300	7,200	3,300	49	300	540	620
1/18/2008	11,000	2,200	3,600	140	650	850	620
2/1/2008	8,700	5,700	3,600	100	440	930	560
3/4/2008	7,200	4,900	3,900	120	510	770	620
4/8/2008	8,100	10,000	2,800	96	280	580	640
5/6/2008	5,300	2,800	2,900	76	190	328	430
6/3/2008	8,400	6,800	3,700	110	450	480	320
7/2/2008	9,200	4,300[3]	4,500	75	620	650	400
8/19/2008	4,000	6,600	2,600	57	76	215	450
9/5/2008	160	<500	<12	<25	<25	<25	<25
10/7/2008	<100	<500	0.36 J	<1.0	<1.0	1.59	1.7
11/4/2008	12,000	660,000	2,500	140	220	760	160
12/4/2008	1,300	1,500	600	8.2	28	73	130
1/6/2009	1,500	980	560	23	41	110	320
3/6/2009	2,500	1,500	1,100	33	51	114	65
4/7/2009	3,100	6,900	1,100	36	230	207	210
5/13/2009	690	1,500	120	3.2	14	60	24
6/12/2009	150	<500	<0.50	<1.0	<1.0	0.71 J	44
7/10/2009	4,500	560	1,500	41	68	175	150
8/4/2009	2,000	1,000	1,200	16	18	64	100
9/1/2009	4,800	3,500	380	45	25	328	5.4 J
10/6/2009	3,900	4,600	3,200	21	15	35	82
10/27/2009	1,000	<500	520	4	15	10	180
11/3/2009	120	<500	2	0.55 J	0.61 J	3	40
11/25/2009	5,700	4,000	3,100	26	13	48	88
2/16/2010	8,000	5,900	4,700	110	1,300	800	1,800
3/9/2010	7,000	5,900	6,600	110	460	550	410
4/20/2010	10,000	11,000	6,000	44	230	174	130
5/14/2010	8,500	2,100	3,600	67	380	400	210
6/25/2010	4,600	2,600	2,200	61	540	380	170
7/20/2010	21,000	21,000	3,400	370	3,000	2,550	2,300
8/3/2010	3,400	1,500	1,400	17	140	161	390
8/10/2010	5,800	3,400	2,600	40	190	169	140
9/14/2010	9,400	10,000	4,900	170	1,100	1,340	380
10/12/2010	5,700	1,000	2,200	43	140	138	120
11/16/2010	1,100	1,600	290	4	15	78	84
12/14/2010	7,100	3,200	2,600	76	200	315	340
1/14/2011	7,400	3,500	3,700	56	110	220	280
2/8/2011	5,600	3,500	2,400	43	110	190	420
3/25/2011	3,100	1,200	1,300	51	92	200	300

Notes

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

Abbreviations

TPH-g = total petroleum hydrocarbons as gasoline (C4-C12)
µg/L = micrograms per liter
TPH-fp = total petroleum hydrocarbons as fuel products (C7-C28)
MTBE = methyl tertiary butyl ether
-- = not analyzed
<500 = Not detected at or above the laboratory reporting limit (RL) shown
J = Analyte was detected above the laboratory method detection limit and below the laboratory RL

TABLE 6
Remediation Well Vapor Concentrations
SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Remediation Area	Remediation Well ID	Remediation Well Function[1]	Well Operation Status at End of First Quarter 2011[1]	1/19/2011 (ppmv as Hexane)	2/8/2011 (ppmv as Hexane)[2]
South-Central	MW-SF-1	SVE	OFF	90.6	0.7
	MW-SF-2	SVE; TFE	OFF; OFF	2.2	0.0
	MW-SF-3	SVE; TFE	OFF; OFF	5.5	2.6
	MW-SF-4	SVE	OFF	68.4	0.0
	MW-SF-5	SVE	OFF	6.2	0.0
	MW-SF-6	SVE; TFE	OFF; OFF	12.6	15.5
	MW-SF-9	SVE	OFF	0.0	0.0
	MW-SF-10	SVE	OFF	6.5	4.2
	MW-SF-11	SVE; TFE	OFF; OFF	16.3	--
	MW-SF-12	SVE; TFE	OFF; OFF	36.2	44.2
	MW-SF-13	SVE; TFE	OFF; **ON**	3.1	5.3
	MW-SF-14	SVE; TFE	OFF; **ON**	8.4	3.4
	MW-SF-15	SVE; TFE	**ON; ON**	56.5	133.8
	MW-SF-16	SVE; TFE	**ON; ON**	188.6	378.4
	GMW-9	SVE; TFE	OFF; OFF	23.5	5.6
	GMW-10	SVE	**ON**	120.6	56.6
	GMW-22	SVE; TFE	OFF; OFF	23.5	5.6
	GMW-24	SVE; TFE	OFF; OFF	1.6	0.1
	GMW-25	SVE; GWE	OFF; OFF	1.6	0.1
	GWR-3	SVE; GWE	**ON;** OFF	23.1	240.4
	VEW-1	SVE	OFF	2.7	0.1
	VEW-2	SVE	OFF	4.3	3.9
	MW-O-1	SVE; TFE	**ON;** OFF	5.0	2.9
	MW-O-2	SVE; TFE	**ON**; OFF	--[3]	--
	GMW-O-11	SVE; TFE	**ON**; OFF	5.8	3.5
	GMW-O-12	SVE	**ON**	8.7	15.1
	GMW-O-20	SVE; TFE	**ON**; OFF	3.7	1.4
	GMW-O-23	SVE; TFE	**ON;** OFF	5.5	3.1
	MW-18 (MID)	SVE	OFF	3.7	0.9
	HW-2	SVE	OFF	5,000	12.1
Southeastern	GMW-O-15	SVE; TFE	**ON; ON**	32.9	20.0
	GMW-O-18	SVE; TFE	**ON; ON**	32.9	20.0

Notes
1. The well operations listed correspond to the well functions indicated in the previous column.
2. Vapor readings measured in the field with a photoionization detector (PID) calibrated using 50 ppmv of hexane.
3. -- = Vapor readings could not be measured due to water from the sample port.

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

Abbreviations
SVE = soil vapor extraction
TFE = total fluids extraction
GWE = groundwater extraction
ppmv = parts per million by volume
NM = not measured

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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-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
	5/24/2010	74.44	30.47	---	---	43.97	Blaine Tech
	5/28/2010	74.44	30.35	---	---	44.09	Blaine Tech
	10/4/2010	74.44	30.30	---	---	44.14	Blaine Tech
	1/10/2011	74.44	32.02	---	---	42.42	Blaine Tech
GMW-10	04/30/2007	74.67	---	25.9	---	48.77	Secor
	11/12/2007	74.67	25.02	25.82	0.83	---	Secor
	04/14/2008	74.67	25.38	25.44	0.06	---	Secor
	10/13/2008	74.67	24.16	---	---	50.51	Stantec
	4/20/2009	74.67	24.46	---	---	50.21	Blaine Tech
	10/19/2009	74.67	27.2	---	---	47.47	Blaine Tech
	5/24/2010	74.67	26.72	---	---	47.95	Blaine Tech
	5/28/2010	74.67	26.7	---	---	47.97	Blaine Tech
	10/4/2010	74.67	27.15	---	---	47.52	Blaine Tech
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
	9/3/2010	74.17	28.36	25.10	3.26	---	Kinder Morgan
	10/4/2010	74.17	27.65	---	---	46.52	Blaine Tech
GMW-24	11/12/2007	74.04	27.50	27.46	0.04	---	Stantec
	8/19/2008	74.04	29.34	28.24	1.10	---	Envent
	10/17/2008	74.04	30.88	29.90	0.98	---	Envent
	10/21/2008	74.04	29.64	28.30	1.34	---	Envent
	12/18/2008	74.04	29.04	---	---	45.00	Envent
	1/15/2009	74.04	30.56	29.80	0.76	---	Envent
	3/20/2009	74.04	31.28	---	---	42.76	Envent
	3/27/2009	74.04	30.45	---	---	43.59	Envent
	4/21/2009	74.04	29.91	---	---	44.13	Envent
	7/21/2009	74.04	32.78	---	---	41.26	Envent
	2/4/2010	74.04	29.67	29.40	0.27	---	Kinder Morgan
	6/22/2010	74.04	29.47	---	---	44.57	Blaine Tech
	9/3/2010	74.04	29.90	---	---	44.14	Kinder Morgan
	10/4/2010	74.04	29.50	---	---	44.54	Blaine Tech
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
	6/22/2010	74.29	31.64	---	---	42.65	Blaine Tech
	10/4/2010	74.29	29.25	---	---	45.04	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

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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-36	10/16/2008	74.53	26.11	26.09	0.02	---	Envent
	12/18/2008	74.53	28.70	28.65	0.05	---	Envent
	1/15/2009	74.53	27.73	27.45	0.28	---	Envent
	2/20/2009	74.53	26.39	26.35	0.04	---	Envent
	2/23/2009	74.53	26.13	25.80	0.33	---	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	---	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	7/21/2009	74.53	26.03	---	---	48.50	Envent
	7/22/2009	74.53	25.90	---	---	48.63	Blaine Tech
	10/19/2009	74.53	26.56	26.45	0.11	---	Blaine Tech
	2/4/2010	74.53	26.93	26.80	0.13	---	Kinder Morgan
	3/15/2010	74.53	26.80	---	---	47.73	Blaine Tech
	4/16/2010	74.53	26.90	---	---	47.63	Blaine Tech
	5/24/2010	74.53	25.96	25.90	0.06	---	Blaine Tech
	5/28/2010	74.53	25.94	25.88	0.06	---	Blaine Tech
	6/22/2010	74.53	25.94	25.91	0.03	---	Blaine Tech
	10/24/2010	74.53	26.90	---	---	47.63	Blaine Tech
	11/23/2010	74.53	27.35	27.10	0.25	---	Blaine Tech
	12/22/2010	74.53	28.35	26.84	1.51	---	Blaine Tech
	1/10/2011	74.53	29.10	27.70	1.40	--	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
	10/4/2010	74.17	30.00	---	---	44.17	Blaine Tech
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
	5/24/2010	73.49	24.80	---	---	48.69	Blaine Tech
	5/28/2010	73.49	24.74	---	---	48.75	Blaine Tech
	10/4/2010	73.49	25.31	25.20	0.11	---	Blaine Tech
	1/10/2011	73.49	26.42	26.32	0.10	--	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
	2/4/2010	74.23	25.50	25.48	0.02	---	Kinder Morgan
	4/16/2010	74.23	23.10	---	---	51.13	Blaine Tech
	5/24/2010	74.23	25.67	---	---	48.56	Blaine Tech
	5/28/2010	74.23	25.35	---	---	48.88	Blaine Tech
	6/22/2010	74.23	25.81	---	---	48.42	Blaine Tech
	10/4/2010	74.23	25.85	25.80	0.05	---	Blaine Tech
	11/23/2010	74.23	53.17	---	---	21.06	Blaine Tech

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-O-15	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	--	--	48.26	Blaine Tech
GMW-O-18	04/30/2007	74.36	24.21	---	---	50.15	Secor
	11/12/2007	74.36	22.46	---	---	51.90	Secor
	04/14/2008	74.36	24.5	---	---	49.86	Secor
	10/13/2008	74.36	25.46	---	---	48.90	Stantec
	4/20/2009	74.36	25.59	---	---	48.77	Blaine Tech
	10/19/2009	74.36	26.31	---	---	48.05	Blaine Tech
	3/15/2010	74.36	26.54	---	---	47.82	Blaine Tech
	4/16/2010	74.36	24.25	---	---	50.11	Blaine Tech
	5/24/2010	74.36	26.26	---	---	48.10	Blaine Tech
	5/28/2010	74.36	26.03	---	---	48.33	Blaine Tech
	10/4/2010	74.36	29.95	---	---	44.41	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
	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
	6/22/2010	73.32	24.76	24.66	0.10	---	Blaine Tech
	10/4/2010	73.32	31.20	31.10	0.10	---	Blaine Tech
	1/10/2011	73.32	26.62	26.48	0.14	--	Blaine Tech
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
	10/4/2010	71.43	25.40	---	---	46.03	Blaine Tech
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
	6/22/2010	73.63	32.10	---	---	41.53	Blaine Tech
	10/4/2010	73.63	25.92	---	---	47.71	Blaine Tech
	1/10/2011	73.63	27.45	---	---	46.18	Blaine Tech
GMW-SF-9	4/21/2009	73.00	24.19	---	---	48.81	Envent
	5/24/2010	73.00	28.31	---	---	44.69	Blaine Tech
	5/28/2010	73.00	28.37	---	---	44.63	Blaine Tech
	10/4/2010	73.00	25.28	---	---	47.72	Blaine Tech
GMW-SF-10	4/21/2009	75.77	27.1	---	---	48.67	Envent
	10/4/2010	75.77	28.03	---	---	47.74	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

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GWR-3	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	10/4/2010	74.93	30.67	---	---	44.26	Blaine Tech
MW-18 (MID)	04/30/2007	75.67	29.77	---	---	45.9	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	04/14/2008	75.67	30.45	---	---	45.22	Secor
	10/13/2008	75.67	31.15	---	---	44.52	Stantec
	4/20/2009	75.67	31.49	---	---	44.18	Blaine Tech
	10/19/2009	75.67	32.62	---	---	43.05	Blaine Tech
	5/24/2010	75.67	32.26	---	---	43.41	Blaine Tech
	5/28/2010	75.67	32.17	---	---	43.5	Blaine Tech
	10/4/2010	75.67	32.3	---	---	43.37	Blaine Tech
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
	10/4/2010	75.48	26.90	---	---	48.58	Blaine Tech
MW-O-2	11/12/2007	71.90	23.10	---	---	48.80	Stantec
	10/17/2008	71.90	24.85	---	---	47.05	Envent
	12/19/2008	71.90	25.51	---	---	46.39	Envent
	3/27/2009	71.90	25.22	---	---	46.68	Envent
	7/21/2009	71.90	23.63	---	---	48.27	Envent
	11/9/2009	71.90	25.39	---	---	46.51	Kinder Morgan
	10/4/2010	71.90	26.05	---	---	45.85	Blaine Tech
MW-SF-1	8/28/2007	78.93	27.94	---	---	50.99	Stantec
	11/12/2007	78.93	28.76	---	---	50.17	Stantec
	2/19/2008	78.93	29.50	---	---	49.43	Stantec
	4/14/2008	78.93	29.16	---	---	49.77	Stantec
	8/11/2008	78.93	29.75	---	---	49.18	Stantec
	10/13/2008	78.93	29.86	---	---	49.07	Stantec
	2/23/2009	78.93	30.00	---	---	48.93	Blaine Tech
	4/20/2009	78.93	29.97	---	---	48.96	Blaine Tech
	7/22/2009	78.93	30.98	---	---	47.95	Blaine Tech
	10/19/2009	78.93	31.11	---	---	47.82	Blaine Tech
	3/15/2010	78.93	31.74	---	---	47.19	Blaine Tech
	5/24/2010	78.93	30.79	---	---	48.14	Blaine Tech
	5/28/2010	78.93	30.57	---	---	48.36	Blaine Tech
	6/22/2010	78.93	30.84	---	---	48.09	Blaine Tech
	7/12/2010	78.93	30.51	---	---	48.42	Blaine Tech
	10/4/2010	78.93	30.88	---	---	48.05	Blaine Tech
	1/10/2011	78.93	32.51	---	---	46.42	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
	10/4/2010	78.53	30.96	30.75	0.21	---	Blaine Tech
	1/10/2011	78.53	32.62	32.50	0.12	--	Blaine Tech
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---	Stantec

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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-3	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
	9/3/2010	78.12	30.97	30.42	0.55	---	Kinder Morgan
	10/4/2010	78.12	30.88	30.30	0.58	---	Blaine Tech
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
	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
	3/15/2010	79.38	31.95	31.91	0.04	---	Blaine Tech
	5/24/2010	79.38	31.60	---	---	47.78	Blaine Tech
	5/28/2010	79.38	26.40	---	---	52.98	Blaine Tech
	6/22/2010	79.38	31.63	---	---	47.75	Blaine Tech
	7/12/2010	79.38	31.37	---	---	48.01	Blaine Tech
	10/4/2010	79.38	31.81	---	---	47.57	Blaine Tech
	1/10/2011	79.38	32.99	---	---	46.39	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
	5/24/2010	79.74	31.55	---	---	48.19	Blaine Tech
	5/28/2010	79.74	31.44	---	---	48.30	Blaine Tech
	6/22/2010	79.74	31.57	---	---	48.17	Blaine Tech
	10/4/2010	79.74	31.39	---	---	48.35	Blaine Tech
	1/10/2011	79.74	33.80	--	--	45.94	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

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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-6	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
	10/4/2010	76.80	29.09	---	---	47.71	Blaine Tech
	1/10/2011	76.80	30.87	---	---	45.93	Blaine Tech
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
	5/24/2010	74.10	25.80	---	---	48.30	Blaine Tech
	5/28/2010	74.10	25.66	---	---	48.44	Blaine Tech
	6/22/2010	74.10	25.84	---	---	48.26	Blaine Tech
	10/4/2010	74.10	26.10	---	---	48.00	Blaine Tech
	1/10/2011	74.10	27.41	---	---	46.69	Blaine Tech
MW-SF-10	10/17/2008	76.53	27.49	---	---	49.04	Envent
	10/19/2009	76.53	28.61	---	---	47.92	Blaine Tech
	10/4/2010	76.53	28.5	28.36	0.14	---	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
	9/3/2010	78.56	31.22	---	---	47.34	Kinder Morgan
	10/4/2010	78.56	30.94	---	---	47.62	Blaine Tech
MW-SF-12	8/14/2007	78.07	27.76	---	---	50.31	Geomatrix
	8/21/2007	78.07	27.43	---	---	50.64	Geomatrix
	8/28/2007	78.07	27.58	---	---	50.49	Stantec
	9/11/2007	78.07	27.73	---	---	50.34	Geomatrix
	10/5/2007	78.07	28.06	---	---	50.01	Geomatrix
	11/2/2007	78.07	29.59	---	---	48.48	Geomatrix
	11/12/2007	78.07	28.33	---	---	49.74	Stantec
	8/12/2008	78.07	30.02	---	---	48.05	Envent
	10/17/2008	78.07	30.42	---	---	47.65	Envent
	12/18/2008	78.07	31.55	---	---	46.52	Envent
	1/15/2009	78.07	30.11	---	---	47.96	Envent
	3/24/2009	78.07	29.41	---	---	48.66	Envent
	4/21/2009	78.07	29.52	---	---	48.55	Envent
	7/21/2009	78.07	28.58	---	---	49.49	Envent
	11/4/2009	78.07	30.36	---	---	47.71	Kinder Morgan
	2/4/2010	78.07	29.20	---	---	48.87	Kinder Morgan
	10/4/2010	78.07	30.70	---	---	47.37	Blaine Tech
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix

TABLE 7

Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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-13	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
	9/3/2010	73.40	27.40	25.71	1.69	---	Kinder Morgan
	12/17/2008	73.40	26.21	24.70	1.51	---	Envent
	1/15/2009	73.40	26.90	24.80	2.10	---	Envent
	3/27/2009	73.40	26.46	25.49	0.97	---	Envent
	4/21/2009	73.40	24.86	24.78	0.08	---	Envent
	7/21/2009	73.40	25.72	25.48	0.24	---	Envent
	11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan
	2/4/2010	73.40	25.43	25.30	0.13	---	Kinder Morgan
	10/4/2010	73.40	26.95	25.92	1.03	---	Blaine Tech
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
	6/22/2010	78.16	26.17	---	---	51.99	Blaine Tech
	10/4/2010	78.16	30.54	---	---	47.62	Blaine Tech
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
	10/4/2010	78.27	30.66	30.65	0.01	---	Blaine Tech
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

TABLE 7

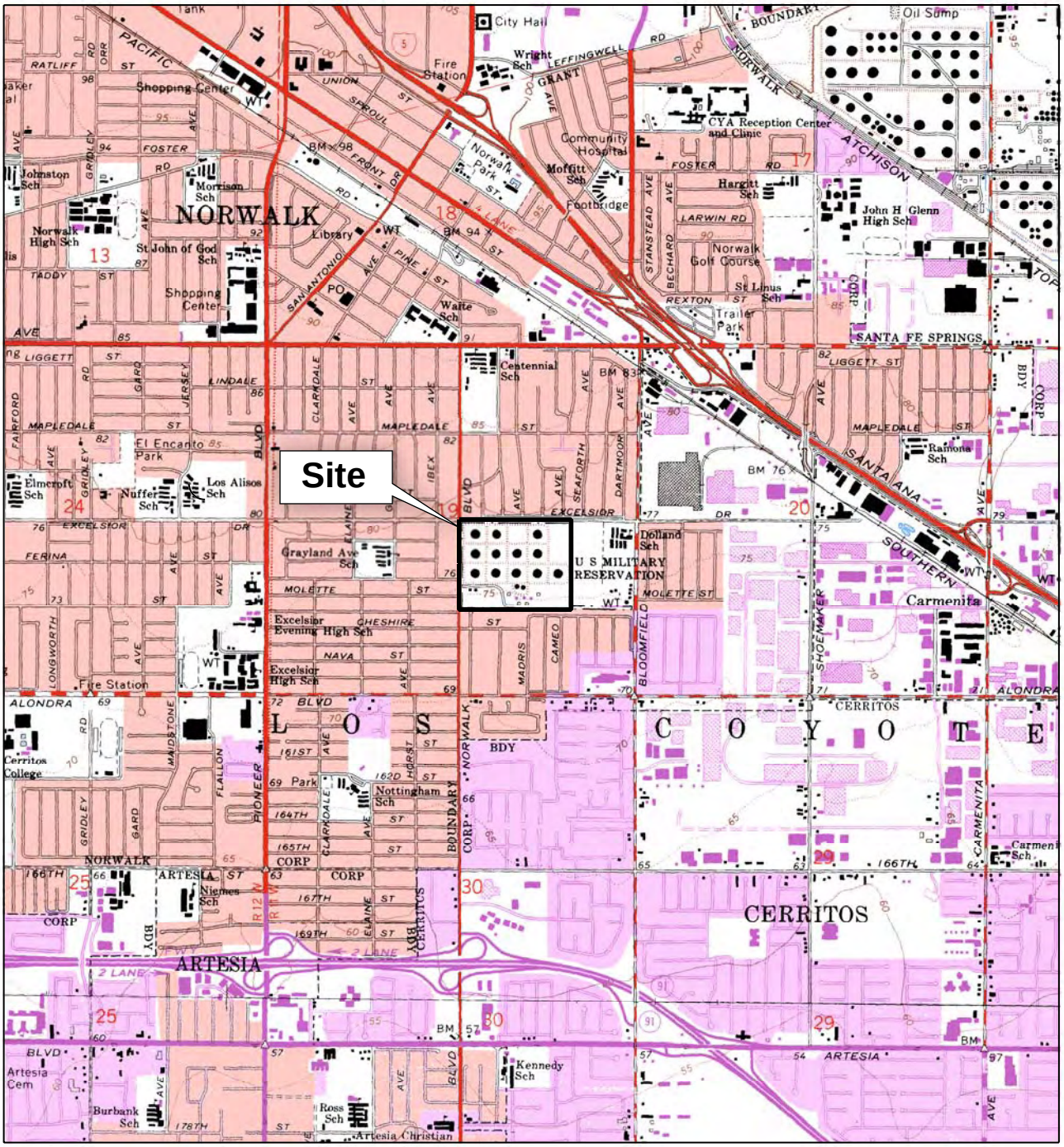
Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells

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

Well ID	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	12/18/2008	78.21	30.94	---	---	47.27	Envent
	1/15/2009	78.21	30.01	30.00	0.01	---	Envent
	3/24/2009	78.21	29.82	---	---	48.39	Envent
	4/21/2009	78.21	29.60	---	---	48.61	Envent
	7/21/2009	78.21	30.36	---	---	47.85	Envent
	11/4/2009	78.21	30.58	---	---	47.63	Kinder Morgan
	2/4/2010	78.21	30.36	---	---	47.85	Kinder Morgan
	9/3/2010	78.21	30.25	---	---	47.96	Kinder Morgan
	10/4/2010	78.21	30.49	---	---	47.72	Blaine Tech

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



N

Approximate Scale in Feet

0 1200 2400

0 0 0

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

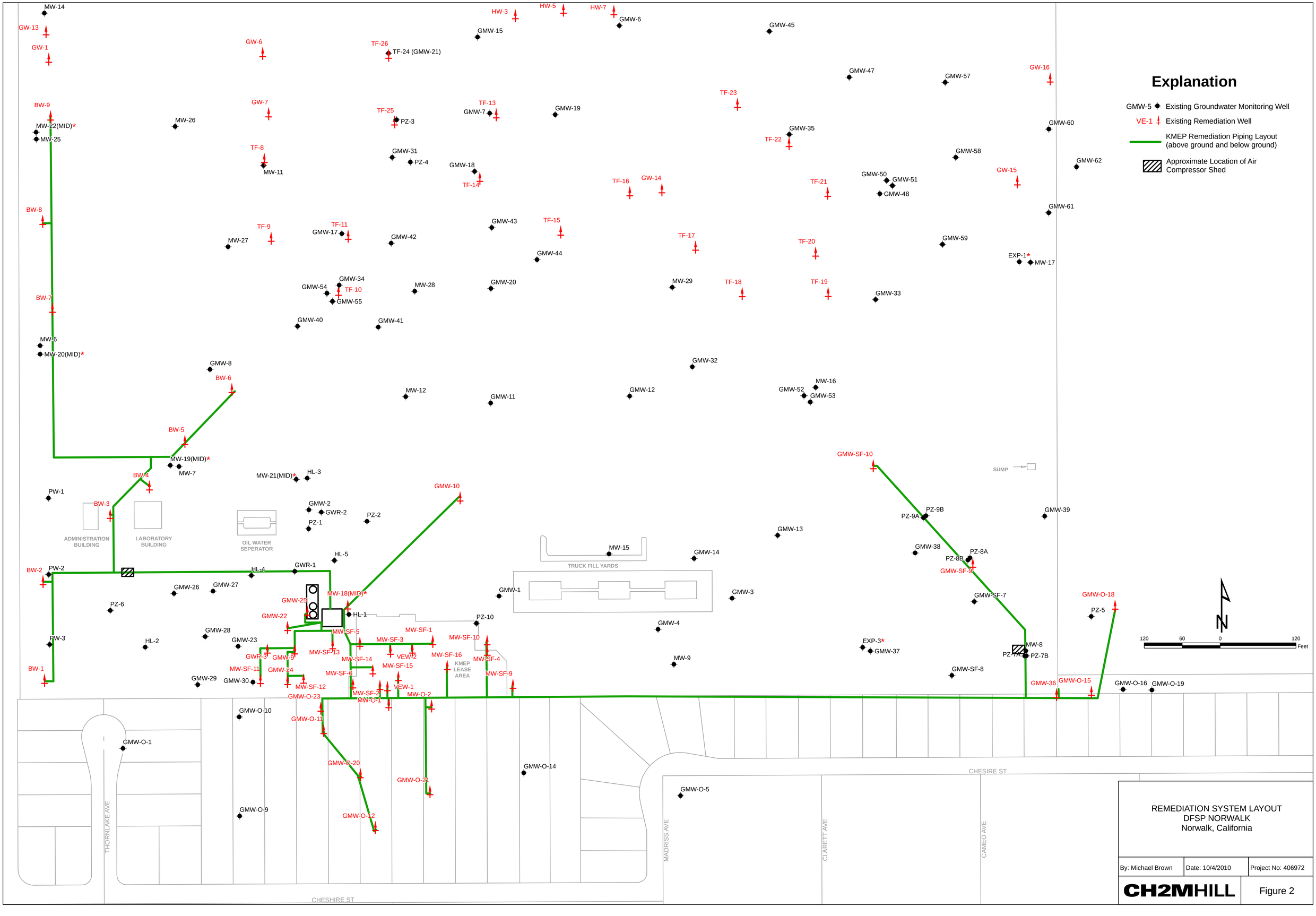
DFSP NORWALK
Norwalk, California

By: Andy Vollmar	Date: July 21, 2010	Project No: 407609

CH2MHILL

Figure 1

ES070610212914SCO407609.A1.03 DFSP_sitelocation.ai 7/10


MW-14
GW-13
GW-1
GW-6
TF-26
TF-24 (GMW-21)
HW-3
HW-5
HW-7
GMW-6
GMW-15
GMW-45
GMW-47
GMW-57
GW-16
BW-9
MW-22(MID)*
MW-25
MW-26
GW-7
TF-25
PZ-3
TF-13
GMW-7
GMW-19
TF-23
GMW-35
TF-22
GMW-60
TF-8
MW-11
GMW-31
PZ-4
GMW-18
TF-14
GMW-58
GMW-62
GW-15
TF-16
GW-14
TF-21
GMW-50
GMW-51
GMW-48
BW-8
TF-9
MW-27
TF-11
GMW-17
GMW-43
TF-15
GMW-42
GMW-44
TF-17
TF-20
GMW-59
GMW-61
EXP-1*
MW-17
GMW-34
GMW-54
TF-10
GMW-55
MW-28
GMW-20
MW-29
TF-18
TF-19
GMW-33
BW-7
GMW-40
GMW-41
MW-6
MW-20(MID)*
GMW-8
BW-6
GMW-32
MW-12
GMW-11
GMW-12
MW-16
GMW-52
GMW-53
BW-5
MW-19(MID)*
MW-7
BW-4
MW-21(MID)*
HL-3
GMW-SF-10
SUMP
PW-1
BW-3
GMW-10
GMW-2
GWR-2
PZ-1
PZ-2
PZ-9A
PZ-9B
GMW-39
GMW-13
ADMINISTRATION BUILDING
LABORATORY BUILDING
OIL WATER SEPERATOR
MW-15
TRUCK FILL YARDS
GMW-14
GMW-38
PZ-8A
PZ-8B
GMW-SF-9
HL-5
BW-2
PW-2
HL-4
GWR-1
GMW-1
GMW-3
GMW-SF-7
GMW-O-18
GMW-26
GMW-27
MW-18(MID)*
GMW-25
PZ-6
GMW-22
HL-1
PZ-10
PZ-5
GMW-4
PW-3
HL-2
GMW-28
GMW-23
MW-SF-5
MW-SF-1
MW-SF-3
MW-SF-10
EXP-3*
GMW-37
MW-8
PZ-7A
PZ-7B
GWR-3
GMW-9
MW-SF-13
MW-SF-14
VEW-2
MW-SF-16
MW-SF-4
MW-9
BW-1
MW-SF-11
GMW-24
MW-SF-15
KMEP LEASE AREA
GMW-8
GMW-29
GMW-30
MW-SF-6
MW-SF-9
MW-SF-12
VEW-1
MW-SF-2
MW-O-2
MW-O-1
GMW-O-23
GMW-36
GMW-O-15
GMW-O-16
GMW-O-19
GMW-O-10
GMW-O-11
GMW-O-1
GMW-O-20
GMW-O-14
GMW-O-21
GMW-O-5
GMW-O-9
GMW-O-12
THORNLAKE AVE
CHESHIRE ST
MADRISS AVE
CLARETT AVE
CAMEO AVE
CHESHIRE ST
Explanation
GMW-5 Existing Groundwater Monitoring Well
VE-1 Existing Remediation Well
KMEP Remediation Piping Layout (above ground and below ground)
Approximate Location of Air Compressor Shed
N
120 60 0 120
Feet
REMEDIATION SYSTEM LAYOUT
DFSP NORWALK
Norwalk, California
By: Michael Brown
Date: 10/4/2010
Project No: 406972
CH2MHILL
Figure 2

Appendix A
Laboratory Analytical Reports

January 27, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005196

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on January 15, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for gsyconmudr

Jose Tenorio Jr.
Laboratory Director

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005196

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories *3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

CLIENT: CH2M HILL
Lab Order: N005196
Project: SFPP - Norwalk Site
Lab ID: N005196-001

Client Sample ID: INF-01-14
Collection Date: 1/14/2011 2:00:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TPH-FUEL PRODUCT BY GC/FID							
	EPA 3510C				**EPA 8015B**		
RunID: **GC3_110121A**	QC Batch: **36053**				PrepDate: **1/21/2011**		Analyst: **MDM**
TPH-Fuel Product	3500	13	50		ug/L	1	1/21/2011 06:12 PM
Surr: Octacosane	135	0	26-152		%REC	1	1/21/2011 06:12 PM
Surr: p-Terphenyl	103	0	57-132		%REC	1	1/21/2011 06:12 PM
GASOLINE RANGE ORGANICS BY GC/FID							
					EPA 8015B		
RunID: **GC4_110119B**	QC Batch: **E11VW002**				PrepDate:		Analyst: **QBM**
TPH-Gasoline	7400	6.0	100		µg/L	1	1/19/2011
Surr: Chlorobenzene - d5	98.7	0	74-138		%REC	1	1/19/2011
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					EPA 8260B		
RunID: **MS1_110120B**	QC Batch: **D11VW007**				PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,1-Trichloroethane	ND	0.068	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,2-Trichloroethane	ND	0.083	1.0		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloroethane	ND	0.099	1.0		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloroethene	ND	0.094	1.0		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloropropene	ND	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,3-Trichloropropane	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,4-Trimethylbenzene	47	0.095	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dibromoethane	ND	0.14	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dichlorobenzene	ND	0.070	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dichloroethane	ND	0.17	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dichloropropane	ND	0.085	1.0		µg/L	1	1/20/2011 02:44 PM
1,3,5-Trimethylbenzene	14	0.087	1.0		µg/L	1	1/20/2011 02:44 PM
1,3-Dichlorobenzene	ND	0.090	1.0		µg/L	1	1/20/2011 02:44 PM
1,3-Dichloropropane	ND	0.074	1.0		µg/L	1	1/20/2011 02:44 PM
1,4-Dichlorobenzene	ND	0.092	1.0		µg/L	1	1/20/2011 02:44 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
2-Butanone	ND	1.0	10		µg/L	1	1/20/2011 02:44 PM
2-Chlorotoluene	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N005196
Project: SFPP - Norwalk Site
Lab ID: N005196-001

Client Sample ID: INF-01-14
Collection Date: 1/14/2011 2:00:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110120B** QC Batch: **D11VW007** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
4-Isopropyltoluene	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM
4-Methyl-2-pentanone	ND	0.76	10		µg/L	1	1/20/2011 02:44 PM
Acetone	ND	1.6	10		µg/L	1	1/20/2011 02:44 PM
Acrolein	ND	4.3	20		µg/L	1	1/25/2011 11:52 PM
Acrylonitrile	ND	0.61	20		µg/L	1	1/25/2011 11:52 PM
Benzene	3700	7.5	100		µg/L	100	1/20/2011 01:34 PM
Bromobenzene	ND	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
Bromochloromethane	ND	0.15	1.0		µg/L	1	1/20/2011 02:44 PM
Bromodichloromethane	ND	0.063	1.0		µg/L	1	1/20/2011 02:44 PM
Bromoform	ND	0.086	1.0		µg/L	1	1/20/2011 02:44 PM
Bromomethane	ND	0.13	1.0		µg/L	1	1/20/2011 02:44 PM
Carbon disulfide	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
Carbon tetrachloride	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Chlorobenzene	ND	0.092	1.0		µg/L	1	1/20/2011 02:44 PM
Chloroethane	ND	0.14	1.0		µg/L	1	1/20/2011 02:44 PM
Chloroform	ND	0.058	1.0		µg/L	1	1/20/2011 02:44 PM
Chloromethane	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
cis-1,2-Dichloroethene	ND	0.11	1.0		µg/L	1	1/20/2011 02:44 PM
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Dibromochloromethane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
Dibromomethane	ND	0.15	1.0		µg/L	1	1/20/2011 02:44 PM
Dichlorodifluoromethane	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
Ethylbenzene	56	0.051	1.0		µg/L	1	1/20/2011 02:44 PM
Freon-113	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM
Hexachlorobutadiene	ND	0.17	1.0		µg/L	1	1/20/2011 02:44 PM
Isopropylbenzene	17	0.057	1.0		µg/L	1	1/20/2011 02:44 PM
m,p-Xylene	180	0.17	1.0		µg/L	1	1/20/2011 02:44 PM
Methylene chloride	ND	0.10	5.0		µg/L	1	1/20/2011 02:44 PM
MTBE	280	0.89	10		µg/L	10	1/20/2011 01:58 PM
n-Butylbenzene	2.3	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
n-Propylbenzene	33	0.087	1.0		µg/L	1	1/20/2011 02:44 PM
Naphthalene	94	0.056	1.0		µg/L	1	1/20/2011 02:44 PM
o-Xylene	43	0.077	1.0		µg/L	1	1/20/2011 02:44 PM
sec-Butylbenzene	3.1	0.098	1.0		µg/L	1	1/20/2011 02:44 PM
Styrene	ND	0.072	1.0		µg/L	1	1/20/2011 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N005196
Project: SFPP - Norwalk Site
Lab ID: N005196-001

Client Sample ID: INF-01-14
Collection Date: 1/14/2011 2:00:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110120B** QC Batch: **D11VW007** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
tert-Butylbenzene	ND	0.062	1.0		µg/L	1	1/20/2011 02:44 PM
Tetrachloroethene	ND	0.13	1.0		µg/L	1	1/20/2011 02:44 PM
Toluene	110	0.12	2.5		µg/L	1	1/20/2011 02:44 PM
trans-1,2-Dichloroethene	ND	0.094	1.0		µg/L	1	1/20/2011 02:44 PM
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Trichloroethene	ND	0.060	1.0		µg/L	1	1/20/2011 02:44 PM
Trichlorofluoromethane	ND	0.097	1.0		µg/L	1	1/20/2011 02:44 PM
Vinyl chloride	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
Xylenes, Total	220	1.5	2.0		µg/L	1	1/20/2011 02:44 PM
Surr: 1,2-Dichloroethane-d4	108	0	72-119		%REC	1	1/20/2011 02:44 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	10	1/20/2011 01:58 PM
Surr: 1,2-Dichloroethane-d4	92.1	0	72-119		%REC	100	1/20/2011 01:34 PM
Surr: 4-Bromofluorobenzene	111	0	76-119		%REC	100	1/20/2011 01:34 PM
Surr: 4-Bromofluorobenzene	108	0	76-119		%REC	1	1/20/2011 02:44 PM
Surr: 4-Bromofluorobenzene	111	0	76-119		%REC	10	1/20/2011 01:58 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	1/20/2011 02:44 PM
Surr: Dibromofluoromethane	99.5	0	85-115		%REC	100	1/20/2011 01:34 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	10	1/20/2011 01:58 PM
Surr: Toluene-d8	110	0	81-120		%REC	100	1/20/2011 01:34 PM
Surr: Toluene-d8	110	0	81-120		%REC	10	1/20/2011 01:58 PM
Surr: Toluene-d8	109	0	81-120		%REC	1	1/20/2011 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-36053**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**		Prep Date: **1/21/2011**		RunNo: **78871**		
Client ID: **PBW**	Batch ID: **36053**	TestNo: **EPA 8015B**	**EPA 3510C**		Analysis Date: **1/21/2011**		SeqNo: **1238685**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	33.841	50									J
Surr: Octacosane	68.142		80.00		85.2	26	152				
Surr: p-Terphenyl	45.986		80.00		57.5	57	132				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GPLLPGE

Sample ID: **E110119LCS** SampType: **LCS** TestCode: **8015_W_GPL** Units: **µg/L** Prep Date: RunNo: **78899**
Client ID: **LCSW** Batch ID: **E11VW002** TestNo: **EPA 8015B** Analysis Date: **1/19/2011** SeqNo: **1239125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	934.000	100	1000	0	93.4	67	136				
Surr: Chlorobenzene - d5	49370.000		50000		98.7	74	138				

Sample ID: **E110119MB2** SampType: **MBLK** TestCode: **8015_W_GPL** Units: **µg/L** Prep Date: RunNo: **78899**
Client ID: **PBW** Batch ID: **E11VW002** TestNo: **EPA 8015B** Analysis Date: **1/19/2011** SeqNo: **1239126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100									
Surr: Chlorobenzene - d5	51589.000		50000		103	74	138				

Sample ID: **N005171-001EMS** SampType: **MS** TestCode: **8015_W_GPL** Units: **µg/L** Prep Date: RunNo: **78899**
Client ID: **ZZZZZZ** Batch ID: **E11VW002** TestNo: **EPA 8015B** Analysis Date: **1/19/2011** SeqNo: **1239128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	963.000	100	1000	0	96.3	67	136				
Surr: Chlorobenzene - d5	48490.000		50000		97.0	74	138				

Sample ID: **N005171-001EMSD** SampType: **MSD** TestCode: **8015_W_GPL** Units: **µg/L** Prep Date: RunNo: **78899**
Client ID: **ZZZZZZ** Batch ID: **E11VW002** TestNo: **EPA 8015B** Analysis Date: **1/19/2011** SeqNo: **1239129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	1007.000	100	1000	0	101	67	136	963.0	4.47	30	
Surr: Chlorobenzene - d5	50603.000		50000		101	74	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	28.480	1.0	25.00	0	114	81	129				
1,1,1-Trichloroethane	21.580	1.0	25.00	0	86.3	67	132				
1,1,2,2-Tetrachloroethane	27.010	1.0	25.00	0	108	63	128				
1,1,2-Trichloroethane	25.800	1.0	25.00	0	103	75	125				
1,1-Dichloroethane	25.800	1.0	25.00	0	103	69	133				
1,1-Dichloroethene	25.500	1.0	25.00	0	102	68	130				
1,1-Dichloropropene	24.750	1.0	25.00	0	99.0	73	132				
1,2,3-Trichlorobenzene	26.680	1.0	25.00	0	107	67	137				
1,2,3-Trichloropropane	26.350	1.0	25.00	0	105	73	124				
1,2,4-Trichlorobenzene	27.330	1.0	25.00	0	109	66	134				
1,2,4-Trimethylbenzene	26.830	1.0	25.00	0	107	74	132				
1,2-Dibromo-3-chloropropane	25.560	2.0	25.00	0	102	50	132				
1,2-Dibromoethane	26.400	1.0	25.00	0	106	80	121				
1,2-Dichlorobenzene	26.340	1.0	25.00	0	105	71	122				
1,2-Dichloroethane	26.410	1.0	25.00	0	106	69	132				
1,2-Dichloropropane	24.350	1.0	25.00	0	97.4	75	125				
1,3,5-Trimethylbenzene	26.880	1.0	25.00	0	108	74	131				
1,3-Dichlorobenzene	26.600	1.0	25.00	0	106	75	124				
1,3-Dichloropropane	26.070	1.0	25.00	0	104	73	126				
1,4-Dichlorobenzene	26.530	1.0	25.00	0	106	74	123				
2,2-Dichloropropane	22.780	1.0	25.00	0	91.1	69	137				
2-Butanone	321.090	10	250.0	0	128	49	136				
2-Chlorotoluene	26.580	1.0	25.00	0	106	73	126				
4-Chlorotoluene	26.700	1.0	25.00	0	107	74	128				
4-Isopropyltoluene	27.090	1.0	25.00	0	108	73	130				
4-Methyl-2-pentanone	284.140	10	250.0	0	114	58	134				
Acetone	345.640	10	250.0	0	138	40	135				S
Benzene	25.290	1.0	25.00	0	101	81	122				
Bromobenzene	26.600	1.0	25.00	0	106	76	124				
Bromochloromethane	25.520	1.0	25.00	0	102	65	129				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	22.790	1.0	25.00	0	91.2	76	121				
Bromoform	24.630	1.0	25.00	0	98.5	69	128				
Bromomethane	25.090	1.0	25.00	0	100	53	141				
Carbon disulfide	24.040	1.0	25.00	0	96.2	75	125				
Carbon tetrachloride	21.710	1.0	25.00	0	86.8	66	138				
Chlorobenzene	25.890	1.0	25.00	0	104	81	122				
Chloroethane	27.940	1.0	25.00	0	112	58	133				
Chloroform	26.350	1.0	25.00	0	105	69	128				
Chloromethane	25.350	1.0	25.00	0	101	56	131				
cis-1,2-Dichloroethene	26.180	1.0	25.00	0	105	72	126				
cis-1,3-Dichloropropene	25.610	1.0	25.00	0	102	69	131				
Dibromochloromethane	25.020	1.0	25.00	0	100	66	133				
Dibromomethane	26.720	1.0	25.00	0	107	76	125				
Dichlorodifluoromethane	25.670	1.0	25.00	0	103	53	153				
Ethylbenzene	26.040	1.0	25.00	0	104	73	127				
Freon-113	22.940	1.0	25.00	0	91.8	75	125				
Hexachlorobutadiene	26.680	1.0	25.00	0	107	67	131				
Isopropylbenzene	26.910	1.0	25.00	0	108	75	127				
m,p-Xylene	52.850	1.0	50.00	0	106	76	128				
Methylene chloride	24.140	5.0	25.00	0	96.6	63	137				
MTBE	24.200	1.0	25.00	0	96.8	65	123				
n-Butylbenzene	27.450	1.0	25.00	0	110	69	137				
n-Propylbenzene	27.080	1.0	25.00	0	108	72	129				
Naphthalene	27.040	1.0	25.00	0	108	54	138				
o-Xylene	25.610	1.0	25.00	0	102	80	121				
sec-Butylbenzene	26.870	1.0	25.00	0	107	72	127				
Styrene	26.290	1.0	25.00	0	105	65	134				
tert-Butylbenzene	26.470	1.0	25.00	0	106	70	129				
Tetrachloroethene	26.570	1.0	25.00	0	106	66	128				
Toluene	24.880	2.5	25.00	0	99.5	77	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	24.550	1.0	25.00	0	98.2	63	137				
trans-1,3-Dichloropropene	26.570	1.0	25.00	0	106	59	135				
Trichloroethene	24.830	1.0	25.00	0	99.3	70	127				
Trichlorofluoromethane	26.930	1.0	25.00	0	108	57	129				
Vinyl chloride	24.960	1.0	25.00	0	99.8	50	134				
Xylenes, Total	78.460	2.0	75.00	0	105	75	125				
Surr: 1,2-Dichloroethane-d4	25.450		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	25.180		25.00		101	76	119				
Surr: Dibromofluoromethane	25.980		25.00		104	85	115				
Surr: Toluene-d8	25.180		25.00		101	81	120				

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	27.530	1.0	25.00	0	110	81	129				
1,1,1-Trichloroethane	21.010	1.0	25.00	0	84.0	67	132				
1,1,2,2-Tetrachloroethane	21.750	1.0	25.00	0	87.0	63	128				
1,1,2-Trichloroethane	21.240	1.0	25.00	0	85.0	75	125				
1,1-Dichloroethane	24.450	1.0	25.00	0	97.8	69	133				
1,1-Dichloroethene	25.170	1.0	25.00	0	101	68	130				
1,1-Dichloropropene	24.600	1.0	25.00	0	98.4	73	132				
1,2,3-Trichlorobenzene	26.350	1.0	25.00	0	105	67	137				
1,2,3-Trichloropropane	21.390	1.0	25.00	0	85.6	73	124				
1,2,4-Trichlorobenzene	28.240	1.0	25.00	0	113	66	134				
1,2,4-Trimethylbenzene	28.140	1.0	25.00	0	113	74	132				
1,2-Dibromo-3-chloropropane	19.790	2.0	25.00	0	79.2	50	132				
1,2-Dibromoethane	21.300	1.0	25.00	0	85.2	80	121				
1,2-Dichlorobenzene	25.800	1.0	25.00	0	103	71	122				
1,2-Dichloroethane	22.030	1.0	25.00	0	88.1	69	132				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	22.880	1.0	25.00	0	91.5	75	125				
1,3,5-Trimethylbenzene	28.110	1.0	25.00	0	112	74	131				
1,3-Dichlorobenzene	27.290	1.0	25.00	0	109	75	124				
1,3-Dichloropropane	22.850	1.0	25.00	0	91.4	73	126				
1,4-Dichlorobenzene	27.080	1.0	25.00	0	108	74	123				
2,2-Dichloropropane	21.840	1.0	25.00	0	87.4	69	137				
2-Butanone	105.490	10	250.0	0	42.2	49	136				S
2-Chlorotoluene	27.500	1.0	25.00	0	110	73	126				
4-Chlorotoluene	27.670	1.0	25.00	0	111	74	128				
4-Isopropyltoluene	28.970	1.0	25.00	0	116	73	130				
4-Methyl-2-pentanone	187.410	10	250.0	0	75.0	58	134				
Acetone	59.250	10	250.0	0	23.7	40	135				S
Benzene	24.820	1.0	25.00	0	99.3	81	122				
Bromobenzene	26.190	1.0	25.00	0	105	76	124				
Bromochloromethane	21.270	1.0	25.00	0	85.1	65	129				
Bromodichloromethane	21.290	1.0	25.00	0	85.2	76	121				
Bromoform	20.750	1.0	25.00	0	83.0	69	128				
Bromomethane	24.580	1.0	25.00	0	98.3	53	141				
Carbon disulfide	23.590	1.0	25.00	0	94.4	75	125				
Carbon tetrachloride	21.650	1.0	25.00	0	86.6	66	138				
Chlorobenzene	26.200	1.0	25.00	0	105	81	122				
Chloroethane	27.670	1.0	25.00	0	111	58	133				
Chloroform	24.270	1.0	25.00	0	97.1	69	128				
Chloromethane	25.230	1.0	25.00	0	101	56	131				
cis-1,2-Dichloroethene	24.530	1.0	25.00	0	98.1	72	126				
cis-1,3-Dichloropropene	23.300	1.0	25.00	0	93.2	69	131				
Dibromochloromethane	22.480	1.0	25.00	0	89.9	66	133				
Dibromomethane	22.090	1.0	25.00	0	88.4	76	125				
Dichlorodifluoromethane	26.040	1.0	25.00	0	104	53	153				
Ethylbenzene	27.220	1.0	25.00	0	109	73	127				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	22.100	1.0	25.00	0	88.4	75	125				
Hexachlorobutadiene	29.430	1.0	25.00	0	118	67	131				
Isopropylbenzene	30.530	1.0	25.00	0.4400	120	75	127				
m,p-Xylene	55.350	1.0	50.00	0	111	76	128				
Methylene chloride	22.170	5.0	25.00	0	88.7	63	137				
MTBE	33.880	1.0	25.00	14.30	78.3	65	123				
n-Butylbenzene	29.630	1.0	25.00	0	119	69	137				
n-Propylbenzene	28.790	1.0	25.00	0	115	72	129				
Naphthalene	23.690	1.0	25.00	0	94.8	54	138				
o-Xylene	26.540	1.0	25.00	0	106	80	121				
sec-Butylbenzene	28.370	1.0	25.00	0	113	72	127				
Styrene	26.260	1.0	25.00	0	105	65	134				
tert-Butylbenzene	28.110	1.0	25.00	0	112	70	129				
Tetrachloroethene	28.120	1.0	25.00	0	112	66	128				
Toluene	24.650	2.5	25.00	0	98.6	77	122				
trans-1,2-Dichloroethene	23.460	1.0	25.00	0	93.8	63	137				
trans-1,3-Dichloropropene	22.760	1.0	25.00	0	91.0	59	135				
Trichloroethene	25.180	1.0	25.00	0	101	70	127				
Trichlorofluoromethane	26.280	1.0	25.00	0	105	57	129				
Vinyl chloride	24.820	1.0	25.00	0	99.3	50	134				
Xylenes, Total	81.890	2.0	75.00	0	109	75	125				
Surr: 1,2-Dichloroethane-d4	21.500		25.00		86.0	72	119				
Surr: 4-Bromofluorobenzene	25.920		25.00		104	76	119				
Surr: Dibromofluoromethane	23.740		25.00		95.0	85	115				
Surr: Toluene-d8	25.770		25.00		103	81	120				

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	27.040	1.0	25.00	0	108	81	129	27.53	1.80	20	
1,1,1-Trichloroethane	20.530	1.0	25.00	0	82.1	67	132	21.01	2.31	20	
1,1,2,2-Tetrachloroethane	21.560	1.0	25.00	0	86.2	63	128	21.75	0.877	20	
1,1,2-Trichloroethane	20.960	1.0	25.00	0	83.8	75	125	21.24	1.33	20	
1,1-Dichloroethane	24.210	1.0	25.00	0	96.8	69	133	24.45	0.986	20	
1,1-Dichloroethene	24.770	1.0	25.00	0	99.1	68	130	25.17	1.60	20	
1,1-Dichloropropene	24.630	1.0	25.00	0	98.5	73	132	24.60	0.122	20	
1,2,3-Trichlorobenzene	25.620	1.0	25.00	0	102	67	137	26.35	2.81	20	
1,2,3-Trichloropropane	20.800	1.0	25.00	0	83.2	73	124	21.39	2.80	20	
1,2,4-Trichlorobenzene	27.900	1.0	25.00	0	112	66	134	28.24	1.21	20	
1,2,4-Trimethylbenzene	27.570	1.0	25.00	0	110	74	132	28.14	2.05	20	
1,2-Dibromo-3-chloropropane	19.110	2.0	25.00	0	76.4	50	132	19.79	3.50	20	
1,2-Dibromoethane	21.570	1.0	25.00	0	86.3	80	121	21.30	1.26	20	
1,2-Dichlorobenzene	25.820	1.0	25.00	0	103	71	122	25.80	0.0775	20	
1,2-Dichloroethane	22.300	1.0	25.00	0	89.2	69	132	22.03	1.22	20	
1,2-Dichloropropane	22.680	1.0	25.00	0	90.7	75	125	22.88	0.878	20	
1,3,5-Trimethylbenzene	27.680	1.0	25.00	0	111	74	131	28.11	1.54	20	
1,3-Dichlorobenzene	27.080	1.0	25.00	0	108	75	124	27.29	0.772	20	
1,3-Dichloropropane	22.280	1.0	25.00	0	89.1	73	126	22.85	2.53	20	
1,4-Dichlorobenzene	26.740	1.0	25.00	0	107	74	123	27.08	1.26	20	
2,2-Dichloropropane	21.590	1.0	25.00	0	86.4	69	137	21.84	1.15	20	
2-Butanone	102.380	10	250.0	0	41.0	49	136	105.5	2.99	20	S
2-Chlorotoluene	27.080	1.0	25.00	0	108	73	126	27.50	1.54	20	
4-Chlorotoluene	27.260	1.0	25.00	0	109	74	128	27.67	1.49	20	
4-Isopropyltoluene	28.550	1.0	25.00	0	114	73	130	28.97	1.46	20	
4-Methyl-2-pentanone	184.130	10	250.0	0	73.7	58	134	187.4	1.77	20	
Acetone	58.000	10	250.0	0	23.2	40	135	59.25	2.13	20	S
Benzene	24.990	1.0	25.00	0	100	81	122	24.82	0.683	20	
Bromobenzene	25.800	1.0	25.00	0	103	76	124	26.19	1.50	20	
Bromochloromethane	21.290	1.0	25.00	0	85.2	65	129	21.27	0.0940	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	21.010	1.0	25.00	0	84.0	76	121	21.29	1.32	20	
Bromoform	20.280	1.0	25.00	0	81.1	69	128	20.75	2.29	20	
Bromomethane	24.420	1.0	25.00	0	97.7	53	141	24.58	0.653	20	
Carbon disulfide	23.250	1.0	25.00	0	93.0	75	125	23.59	1.45	20	
Carbon tetrachloride	21.830	1.0	25.00	0	87.3	66	138	21.65	0.828	20	
Chlorobenzene	25.960	1.0	25.00	0	104	81	122	26.20	0.920	20	
Chloroethane	27.690	1.0	25.00	0	111	58	133	27.67	0.0723	20	
Chloroform	24.070	1.0	25.00	0	96.3	69	128	24.27	0.827	20	
Chloromethane	25.010	1.0	25.00	0	100	56	131	25.23	0.876	20	
cis-1,2-Dichloroethene	24.160	1.0	25.00	0	96.6	72	126	24.53	1.52	20	
cis-1,3-Dichloropropene	23.200	1.0	25.00	0	92.8	69	131	23.30	0.430	20	
Dibromochloromethane	21.730	1.0	25.00	0	86.9	66	133	22.48	3.39	20	
Dibromomethane	21.760	1.0	25.00	0	87.0	76	125	22.09	1.51	20	
Dichlorodifluoromethane	25.640	1.0	25.00	0	103	53	153	26.04	1.55	20	
Ethylbenzene	26.820	1.0	25.00	0	107	73	127	27.22	1.48	20	
Freon-113	21.890	1.0	25.00	0	87.6	75	125	22.10	0.955	20	
Hexachlorobutadiene	29.030	1.0	25.00	0	116	67	131	29.43	1.37	20	
Isopropylbenzene	28.150	1.0	25.00	0.4400	111	75	127	30.53	8.11	20	
m,p-Xylene	54.790	1.0	50.00	0	110	76	128	55.35	1.02	20	
Methylene chloride	22.030	5.0	25.00	0	88.1	63	137	22.17	0.633	20	
MTBE	32.720	1.0	25.00	14.30	73.7	65	123	33.88	3.48	20	
n-Butylbenzene	29.220	1.0	25.00	0	117	69	137	29.63	1.39	20	
n-Propylbenzene	28.410	1.0	25.00	0	114	72	129	28.79	1.33	20	
Naphthalene	22.630	1.0	25.00	0	90.5	54	138	23.69	4.58	20	
o-Xylene	26.020	1.0	25.00	0	104	80	121	26.54	1.98	20	
sec-Butylbenzene	28.190	1.0	25.00	0	113	72	127	28.37	0.636	20	
Styrene	25.270	1.0	25.00	0	101	65	134	26.26	3.84	20	
tert-Butylbenzene	27.670	1.0	25.00	0	111	70	129	28.11	1.58	20	
Tetrachloroethene	27.400	1.0	25.00	0	110	66	128	28.12	2.59	20	
Toluene	24.870	2.5	25.00	0	99.5	77	122	24.65	0.889	20	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	23.060	1.0	25.00	0	92.2	63	137	23.46	1.72	20	
trans-1,3-Dichloropropene	22.690	1.0	25.00	0	90.8	59	135	22.76	0.308	20	
Trichloroethene	24.620	1.0	25.00	0	98.5	70	127	25.18	2.25	20	
Trichlorofluoromethane	25.520	1.0	25.00	0	102	57	129	26.28	2.93	20	
Vinyl chloride	24.510	1.0	25.00	0	98.0	50	134	24.82	1.26	20	
Xylenes, Total	80.810	2.0	75.00	0	108	75	125	81.89	1.33	20	
Surr: 1,2-Dichloroethane-d4	21.200		25.00		84.8	72	119		0		
Surr: 4-Bromofluorobenzene	25.590		25.00		102	76	119		0		
Surr: Dibromofluoromethane	23.820		25.00		95.3	85	115		0		
Surr: Toluene-d8	26.200		25.00		105	81	120		0		

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethylbenzene	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	5.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.5									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	21.610		25.00		86.4	72	119				
Surr: 4-Bromofluorobenzene	27.200		25.00		109	76	119				
Surr: Dibromofluoromethane	21.940		25.00		87.8	85	115				
Surr: Toluene-d8	26.920		25.00		108	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110125LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **LCSW** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	231.570	20	250.0	0	92.6	75	125				
Acrylonitrile	246.790	20	250.0	0	98.7	75	125				

Sample ID: **N005171-002BMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **ZZZZZZ** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	184.970	20	250.0	0	74.0	75	125				S
Acrylonitrile	189.360	20	250.0	0	75.7	75	125				

Sample ID: **N005171-002BMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **ZZZZZZ** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	183.960	20	250.0	0	73.6	75	125	185.0	0.548	20	S
Acrylonitrile	189.940	20	250.0	0	76.0	75	125	189.4	0.306	20	

Sample ID: **D110125MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **PBW** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	ND	20									
Acrylonitrile	ND	20									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 01-14-11

PAGE: 1 OF 1

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: **james_dye@kindermorgan.com**

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)	Comments
	INF- 01-14	Influent	01-14-11	1400	WW	7	X	X	X	Temperature* = 3.4°C
										(Temp. as sampled*)
										Monthly

N005196-1

	Date	Time
Relinquished by: (Signature) / Received by: (Signature)	1/14/11	2:30 PM
Relinquished by: (Signature) / Received by: (Signature) C. Aguila	1/14/11	1502
Relinquished by: (Signature) C. Aguila 1/14/11 / Received by: (Signature) MBCART-M	1/15/11	0900

Revised: 01/11/11

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 01-14-11

PAGE: 1 OF 1

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: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)	Comments
	INF- 01-14	Influent	01-14-11	1400	WW	7	X	X	X	Temperature* = 3.4°C
										(Temp. as sampled)*
										Monthly

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/14/11	Time: 2:30 PM
Relinquished by: (Signature)	Received by: (Signature) C. Aguila	Date: 1/14/11	Time: 1502
Relinquished by: (Signature) C. Aguila 1/14/11	Received by: (Signature) MBCARTIN	Date: 1/15/11	Time: 0900

Revised: 01/11/11

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO and/or NA signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Sample Receipt Checklist

Cooler Received/Opened On:	1/15/2011	Workorder:	N005196
Rep sample Temp (Deg C):	3.4	IR Gun ID:	1
Temp Blank:	Yes ✔ No		
Carrier name:	ontrac		
Last 4 digits of Tracking No :	0807	Packing Material Used:	Bubble Wrap
Cooling process:	✔ Ice Ice Pack Dry Ice Other None		

1. Shipping container/cooler in good condition?	Yes ✔	No	Not Present
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes	No	Not Present ✔
3. Custody seals intact on sample bottles?	Yes	No	Not Present ✔
4. Chain of custody present?	Yes ✔	No	
5. Sampler's name present in COC?	Yes ✔	No	
6. Chain of custody signed when relinquished and received?	Yes ✔	No	
7. Chain of custody agrees with sample labels?	Yes ✔	No	
8. Samples in proper container/bottle?	Yes ✔	No	
9. Sample containers intact?	Yes ✔	No	
10. Sufficient sample volume for indicated test?	Yes ✔	No	
11. All samples received within holding time?	Yes ✔	No	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ✔	No	NA
13. Water - VOA vials have zero headspace?	Yes ✔	No	NA
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes	No	NA ✔
15. Did the bottle labels indicate correct preservatives used?	Yes ✔	No	NA ✔ ws for MC 1/17/11
16. Were there Non-Conformance issues at login?	Yes	No	NA ✔
Was Client notified?	Yes	No	NA ✔

Comments:

Checklist Completed By MBC 1/15/11

Reviewed By: WS 1/17/11

OnTrac

800-334-5000
Call For A Pickup!

Account Number [redacted] B10246440807

Date

B10246440807

FROM (Company): ENVIRO TREATMENT & TECHNOLOGY*

Street Address: 3275 WALNUT AVE SUITE

City: SIGNAL HILL

State: CA Zip Code (Required): 90755 Phone Number: 562-989-4045

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX: ATL

Street Address: 3151 W POST RD

Suite #: City: LAS VEGAS

State: NV Zip Code (Required): 89118 Phone Number: 702-307-2051

Recipient's Name: MARLON C.

Shipper's Ref. #: CH2M HILL-NORWALK

Service Options	Billing Information	Weight
*If no box is checked, Sunrise Service will be applied. **Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M. Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.	If none is selected, shipper will be invoiced	
☐ SUNRISE - BY 10:30 AM*	☐ Bill Shipper's Account	☐ 8 oz. Letter or
☐ SUNRISE GOLD - BY 8:00 AM*	☑ Bill Other Acct # [redacted]	
☐ HEAVYWEIGHT**		Weight lbs. (Subject to
☑ Saturday Delivery - Extra Charge (see Service Guide for details)		
☐ HOLD FOR PICKUP	Dim weight ch...	
☐ This shipment requires a delivery signature		
☐ Declared Value $ (maximum $25,000)		

WWW.CALOVER.COM

CALIFORNIA OVERNIGHT
800-334-5000

B10246440807

VEG 89118
LAS VEGAS

February 01, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005196

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on January 15, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for

Jose Tenorio Jr.
Laboratory Director

CLIENT:	CH2M HILL	**Client Sample ID:**	INF-01-14
Lab Order:	N005196	**Collection Date:**	1/14/2011 2:00:00 PM
Project:	SFPP - Norwalk Site	**Matrix:**	WASTEWATER
Lab ID:	N005196-001B		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110120B** QC Batch: **D11VW007** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,1-Trichloroethane	ND	0.068	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
1,1,2-Trichloroethane	ND	0.083	1.0		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloroethane	ND	0.099	0.50		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloroethene	ND	0.094	1.0		µg/L	1	1/20/2011 02:44 PM
1,1-Dichloropropene	ND	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,3-Trichloropropane	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
1,2,4-Trimethylbenzene	47	0.095	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dibromoethane	ND	0.14	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dichlorobenzene	ND	0.070	1.0		µg/L	1	1/20/2011 02:44 PM
1,2-Dichloroethane	ND	0.17	0.50		µg/L	1	1/20/2011 02:44 PM
1,2-Dichloropropane	ND	0.085	1.0		µg/L	1	1/20/2011 02:44 PM
1,3,5-Trimethylbenzene	14	0.087	1.0		µg/L	1	1/20/2011 02:44 PM
1,3-Dichlorobenzene	ND	0.090	1.0		µg/L	1	1/20/2011 02:44 PM
1,3-Dichloropropane	ND	0.074	1.0		µg/L	1	1/20/2011 02:44 PM
1,4-Dichlorobenzene	ND	0.092	1.0		µg/L	1	1/20/2011 02:44 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
2-Butanone	ND	1.0	10		µg/L	1	1/20/2011 02:44 PM
2-Chlorotoluene	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM
4-Chlorotoluene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
4-Isopropyltoluene	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM
4-Methyl-2-pentanone	ND	0.76	10		µg/L	1	1/20/2011 02:44 PM
Acetone	ND	1.6	10		µg/L	1	1/20/2011 02:44 PM
Acrolein	ND	4.3	20		µg/L	1	1/25/2011 11:52 PM
Acrylonitrile	ND	0.61	20		µg/L	1	1/25/2011 11:52 PM
Benzene	3700	7.5	100		µg/L	100	1/20/2011 01:34 PM
Bromobenzene	ND	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
Bromochloromethane	ND	0.15	1.0		µg/L	1	1/20/2011 02:44 PM
Bromodichloromethane	ND	0.063	1.0		µg/L	1	1/20/2011 02:44 PM
Bromoform	ND	0.086	1.0		µg/L	1	1/20/2011 02:44 PM
Bromomethane	ND	0.13	1.0		µg/L	1	1/20/2011 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	CH2M HILL	**Client Sample ID:**	INF-01-14
Lab Order:	N005196	**Collection Date:**	1/14/2011 2:00:00 PM
Project:	SFPP - Norwalk Site	**Matrix:**	WASTEWATER
Lab ID:	N005196-001B		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110120B** QC Batch: **D11VW007** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Carbon disulfide	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
Carbon tetrachloride	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Chlorobenzene	ND	0.092	1.0		µg/L	1	1/20/2011 02:44 PM
Chloroethane	ND	0.14	1.0		µg/L	1	1/20/2011 02:44 PM
Chloroform	ND	0.058	1.0		µg/L	1	1/20/2011 02:44 PM
Chloromethane	ND	0.054	1.0		µg/L	1	1/20/2011 02:44 PM
cis-1,2-Dichloroethene	ND	0.11	1.0		µg/L	1	1/20/2011 02:44 PM
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Dibromochloromethane	ND	0.061	1.0		µg/L	1	1/20/2011 02:44 PM
Dibromomethane	ND	0.15	1.0		µg/L	1	1/20/2011 02:44 PM
Dichlorodifluoromethane	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
Ethylbenzene	56	0.051	1.0		µg/L	1	1/20/2011 02:44 PM
Freon-113	ND	0.080	1.0		µg/L	1	1/20/2011 02:44 PM
Hexachlorobutadiene	ND	0.17	1.0		µg/L	1	1/20/2011 02:44 PM
Isopropylbenzene	17	0.057	1.0		µg/L	1	1/20/2011 02:44 PM
m,p-Xylene	180	0.17	1.0		µg/L	1	1/20/2011 02:44 PM
Methylene chloride	ND	0.10	5.0		µg/L	1	1/20/2011 02:44 PM
MTBE	280	0.89	10		µg/L	10	1/20/2011 01:58 PM
n-Butylbenzene	2.3	0.082	1.0		µg/L	1	1/20/2011 02:44 PM
n-Propylbenzene	33	0.087	1.0		µg/L	1	1/20/2011 02:44 PM
Naphthalene	94	0.056	1.0		µg/L	1	1/20/2011 02:44 PM
o-Xylene	43	0.077	1.0		µg/L	1	1/20/2011 02:44 PM
sec-Butylbenzene	3.1	0.098	1.0		µg/L	1	1/20/2011 02:44 PM
Styrene	ND	0.072	1.0		µg/L	1	1/20/2011 02:44 PM
tert-Butylbenzene	ND	0.062	1.0		µg/L	1	1/20/2011 02:44 PM
Tetrachloroethene	ND	0.13	1.0		µg/L	1	1/20/2011 02:44 PM
Toluene	110	0.12	2.5		µg/L	1	1/20/2011 02:44 PM
trans-1,2-Dichloroethene	ND	0.094	1.0		µg/L	1	1/20/2011 02:44 PM
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	1/20/2011 02:44 PM
Trichloroethene	ND	0.060	1.0		µg/L	1	1/20/2011 02:44 PM
Trichlorofluoromethane	ND	0.097	1.0		µg/L	1	1/20/2011 02:44 PM
Vinyl chloride	ND	0.12	1.0		µg/L	1	1/20/2011 02:44 PM
Xylenes, Total	220	1.5	2.0		µg/L	1	1/20/2011 02:44 PM
Surr: 1,2-Dichloroethane-d4	108	0	72-119		%REC	1	1/20/2011 02:44 PM
Surr: 1,2-Dichloroethane-d4	92.1	0	72-119		%REC	100	1/20/2011 01:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	CH2M HILL	**Client Sample ID:**	INF-01-14
Lab Order:	N005196	**Collection Date:**	1/14/2011 2:00:00 PM
Project:	SFPP - Norwalk Site	**Matrix:**	WASTEWATER
Lab ID:	N005196-001B		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110120B** QC Batch: **D11VW007** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	10	1/20/2011 01:58 PM
Surr: 4-Bromofluorobenzene	108	0	76-119		%REC	1	1/20/2011 02:44 PM
Surr: 4-Bromofluorobenzene	111	0	76-119		%REC	10	1/20/2011 01:58 PM
Surr: 4-Bromofluorobenzene	111	0	76-119		%REC	100	1/20/2011 01:34 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	1/20/2011 02:44 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	10	1/20/2011 01:58 PM
Surr: Dibromofluoromethane	99.5	0	85-115		%REC	100	1/20/2011 01:34 PM
Surr: Toluene-d8	109	0	81-120		%REC	1	1/20/2011 02:44 PM
Surr: Toluene-d8	110	0	81-120		%REC	10	1/20/2011 01:58 PM
Surr: Toluene-d8	110	0	81-120		%REC	100	1/20/2011 01:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	28.480	1.0	25.00	0	114	81	129				
1,1,1-Trichloroethane	21.580	1.0	25.00	0	86.3	67	132				
1,1,2,2-Tetrachloroethane	27.010	1.0	25.00	0	108	63	128				
1,1,2-Trichloroethane	25.800	1.0	25.00	0	103	75	125				
1,1-Dichloroethane	25.800	0.50	25.00	0	103	69	133				
1,1-Dichloroethene	25.500	1.0	25.00	0	102	68	130				
1,1-Dichloropropene	24.750	1.0	25.00	0	99.0	73	132				
1,2,3-Trichlorobenzene	26.680	1.0	25.00	0	107	67	137				
1,2,3-Trichloropropane	26.350	1.0	25.00	0	105	73	124				
1,2,4-Trichlorobenzene	27.330	1.0	25.00	0	109	66	134				
1,2,4-Trimethylbenzene	26.830	1.0	25.00	0	107	74	132				
1,2-Dibromo-3-chloropropane	25.560	2.0	25.00	0	102	50	132				
1,2-Dibromoethane	26.400	1.0	25.00	0	106	80	121				
1,2-Dichlorobenzene	26.340	1.0	25.00	0	105	71	122				
1,2-Dichloroethane	26.410	0.50	25.00	0	106	69	132				
1,2-Dichloropropane	24.350	1.0	25.00	0	97.4	75	125				
1,3,5-Trimethylbenzene	26.880	1.0	25.00	0	108	74	131				
1,3-Dichlorobenzene	26.600	1.0	25.00	0	106	75	124				
1,3-Dichloropropane	26.070	1.0	25.00	0	104	73	126				
1,4-Dichlorobenzene	26.530	1.0	25.00	0	106	74	123				
2,2-Dichloropropane	22.780	1.0	25.00	0	91.1	69	137				
2-Butanone	321.090	10	250.0	0	128	49	136				
2-Chlorotoluene	26.580	1.0	25.00	0	106	73	126				
4-Chlorotoluene	26.700	1.0	25.00	0	107	74	128				
4-Isopropyltoluene	27.090	1.0	25.00	0	108	73	130				
4-Methyl-2-pentanone	284.140	10	250.0	0	114	58	134				
Acetone	345.640	10	250.0	0	138	40	135				S
Benzene	25.290	1.0	25.00	0	101	81	122				
Bromobenzene	26.600	1.0	25.00	0	106	76	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	25.520	1.0	25.00	0	102	65	129				
Bromodichloromethane	22.790	1.0	25.00	0	91.2	76	121				
Bromoform	24.630	1.0	25.00	0	98.5	69	128				
Bromomethane	25.090	1.0	25.00	0	100	53	141				
Carbon disulfide	24.040	1.0	25.00	0	96.2	75	125				
Carbon tetrachloride	21.710	1.0	25.00	0	86.8	66	138				
Chlorobenzene	25.890	1.0	25.00	0	104	81	122				
Chloroethane	27.940	1.0	25.00	0	112	58	133				
Chloroform	26.350	1.0	25.00	0	105	69	128				
Chloromethane	25.350	1.0	25.00	0	101	56	131				
cis-1,2-Dichloroethene	26.180	1.0	25.00	0	105	72	126				
cis-1,3-Dichloropropene	25.610	1.0	25.00	0	102	69	131				
Dibromochloromethane	25.020	1.0	25.00	0	100	66	133				
Dibromomethane	26.720	1.0	25.00	0	107	76	125				
Dichlorodifluoromethane	25.670	1.0	25.00	0	103	53	153				
Ethylbenzene	26.040	1.0	25.00	0	104	73	127				
Freon-113	22.940	1.0	25.00	0	91.8	75	125				
Hexachlorobutadiene	26.680	1.0	25.00	0	107	67	131				
Isopropylbenzene	26.910	1.0	25.00	0	108	75	127				
m,p-Xylene	52.850	1.0	50.00	0	106	76	128				
Methylene chloride	24.140	5.0	25.00	0	96.6	63	137				
MTBE	24.200	1.0	25.00	0	96.8	65	123				
n-Butylbenzene	27.450	1.0	25.00	0	110	69	137				
n-Propylbenzene	27.080	1.0	25.00	0	108	72	129				
Naphthalene	27.040	1.0	25.00	0	108	54	138				
o-Xylene	25.610	1.0	25.00	0	102	80	121				
sec-Butylbenzene	26.870	1.0	25.00	0	107	72	127				
Styrene	26.290	1.0	25.00	0	105	65	134				
tert-Butylbenzene	26.470	1.0	25.00	0	106	70	129				
Tetrachloroethene	26.570	1.0	25.00	0	106	66	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **LCSW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	24.880	2.5	25.00	0	99.5	77	122				
trans-1,2-Dichloroethene	24.550	1.0	25.00	0	98.2	63	137				
trans-1,3-Dichloropropene	26.570	1.0	25.00	0	106	59	135				
Trichloroethene	24.830	1.0	25.00	0	99.3	70	127				
Trichlorofluoromethane	26.930	1.0	25.00	0	108	57	129				
Vinyl chloride	24.960	1.0	25.00	0	99.8	50	134				
Xylenes, Total	78.460	2.0	75.00	0	105	75	125				
Surr: 1,2-Dichloroethane-d4	25.450		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	25.180		25.00		101	76	119				
Surr: Dibromofluoromethane	25.980		25.00		104	85	115				
Surr: Toluene-d8	25.180		25.00		101	81	120				

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	27.530	1.0	25.00	0	110	81	129				
1,1,1-Trichloroethane	21.010	1.0	25.00	0	84.0	67	132				
1,1,2,2-Tetrachloroethane	21.750	1.0	25.00	0	87.0	63	128				
1,1,2-Trichloroethane	21.240	1.0	25.00	0	85.0	75	125				
1,1-Dichloroethane	24.450	0.50	25.00	0	97.8	69	133				
1,1-Dichloroethene	25.170	1.0	25.00	0	101	68	130				
1,1-Dichloropropene	24.600	1.0	25.00	0	98.4	73	132				
1,2,3-Trichlorobenzene	26.350	1.0	25.00	0	105	67	137				
1,2,3-Trichloropropane	21.390	1.0	25.00	0	85.6	73	124				
1,2,4-Trichlorobenzene	28.240	1.0	25.00	0	113	66	134				
1,2,4-Trimethylbenzene	28.140	1.0	25.00	0	113	74	132				
1,2-Dibromo-3-chloropropane	19.790	2.0	25.00	0	79.2	50	132				
1,2-Dibromoethane	21.300	1.0	25.00	0	85.2	80	121				
1,2-Dichlorobenzene	25.800	1.0	25.00	0	103	71	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	22.030	0.50	25.00	0	88.1	69	132				
1,2-Dichloropropane	22.880	1.0	25.00	0	91.5	75	125				
1,3,5-Trimethylbenzene	28.110	1.0	25.00	0	112	74	131				
1,3-Dichlorobenzene	27.290	1.0	25.00	0	109	75	124				
1,3-Dichloropropane	22.850	1.0	25.00	0	91.4	73	126				
1,4-Dichlorobenzene	27.080	1.0	25.00	0	108	74	123				
2,2-Dichloropropane	21.840	1.0	25.00	0	87.4	69	137				
2-Butanone	105.490	10	250.0	0	42.2	49	136				S
2-Chlorotoluene	27.500	1.0	25.00	0	110	73	126				
4-Chlorotoluene	27.670	1.0	25.00	0	111	74	128				
4-Isopropyltoluene	28.970	1.0	25.00	0	116	73	130				
4-Methyl-2-pentanone	187.410	10	250.0	0	75.0	58	134				
Acetone	59.250	10	250.0	0	23.7	40	135				S
Benzene	24.820	1.0	25.00	0	99.3	81	122				
Bromobenzene	26.190	1.0	25.00	0	105	76	124				
Bromochloromethane	21.270	1.0	25.00	0	85.1	65	129				
Bromodichloromethane	21.290	1.0	25.00	0	85.2	76	121				
Bromoform	20.750	1.0	25.00	0	83.0	69	128				
Bromomethane	24.580	1.0	25.00	0	98.3	53	141				
Carbon disulfide	23.590	1.0	25.00	0	94.4	75	125				
Carbon tetrachloride	21.650	1.0	25.00	0	86.6	66	138				
Chlorobenzene	26.200	1.0	25.00	0	105	81	122				
Chloroethane	27.670	1.0	25.00	0	111	58	133				
Chloroform	24.270	1.0	25.00	0	97.1	69	128				
Chloromethane	25.230	1.0	25.00	0	101	56	131				
cis-1,2-Dichloroethene	24.530	1.0	25.00	0	98.1	72	126				
cis-1,3-Dichloropropene	23.300	1.0	25.00	0	93.2	69	131				
Dibromochloromethane	22.480	1.0	25.00	0	89.9	66	133				
Dibromomethane	22.090	1.0	25.00	0	88.4	76	125				
Dichlorodifluoromethane	26.040	1.0	25.00	0	104	53	153				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	27.220	1.0	25.00	0	109	73	127				
Freon-113	22.100	1.0	25.00	0	88.4	75	125				
Hexachlorobutadiene	29.430	1.0	25.00	0	118	67	131				
Isopropylbenzene	30.530	1.0	25.00	0.4400	120	75	127				
m,p-Xylene	55.350	1.0	50.00	0	111	76	128				
Methylene chloride	22.170	5.0	25.00	0	88.7	63	137				
MTBE	33.880	1.0	25.00	14.30	78.3	65	123				
n-Butylbenzene	29.630	1.0	25.00	0	119	69	137				
n-Propylbenzene	28.790	1.0	25.00	0	115	72	129				
Naphthalene	23.690	1.0	25.00	0	94.8	54	138				
o-Xylene	26.540	1.0	25.00	0	106	80	121				
sec-Butylbenzene	28.370	1.0	25.00	0	113	72	127				
Styrene	26.260	1.0	25.00	0	105	65	134				
tert-Butylbenzene	28.110	1.0	25.00	0	112	70	129				
Tetrachloroethene	28.120	1.0	25.00	0	112	66	128				
Toluene	24.650	2.5	25.00	0	98.6	77	122				
trans-1,2-Dichloroethene	23.460	1.0	25.00	0	93.8	63	137				
trans-1,3-Dichloropropene	22.760	1.0	25.00	0	91.0	59	135				
Trichloroethene	25.180	1.0	25.00	0	101	70	127				
Trichlorofluoromethane	26.280	1.0	25.00	0	105	57	129				
Vinyl chloride	24.820	1.0	25.00	0	99.3	50	134				
Xylenes, Total	81.890	2.0	75.00	0	109	75	125				
Surr: 1,2-Dichloroethane-d4	21.500		25.00		86.0	72	119				
Surr: 4-Bromofluorobenzene	25.920		25.00		104	76	119				
Surr: Dibromofluoromethane	23.740		25.00		95.0	85	115				
Surr: Toluene-d8	25.770		25.00		103	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	27.040	1.0	25.00	0	108	81	129	27.53	1.80	20	
1,1,1-Trichloroethane	20.530	1.0	25.00	0	82.1	67	132	21.01	2.31	20	
1,1,2,2-Tetrachloroethane	21.560	1.0	25.00	0	86.2	63	128	21.75	0.877	20	
1,1,2-Trichloroethane	20.960	1.0	25.00	0	83.8	75	125	21.24	1.33	20	
1,1-Dichloroethane	24.210	0.50	25.00	0	96.8	69	133	24.45	0.986	20	
1,1-Dichloroethene	24.770	1.0	25.00	0	99.1	68	130	25.17	1.60	20	
1,1-Dichloropropene	24.630	1.0	25.00	0	98.5	73	132	24.60	0.122	20	
1,2,3-Trichlorobenzene	25.620	1.0	25.00	0	102	67	137	26.35	2.81	20	
1,2,3-Trichloropropane	20.800	1.0	25.00	0	83.2	73	124	21.39	2.80	20	
1,2,4-Trichlorobenzene	27.900	1.0	25.00	0	112	66	134	28.24	1.21	20	
1,2,4-Trimethylbenzene	27.570	1.0	25.00	0	110	74	132	28.14	2.05	20	
1,2-Dibromo-3-chloropropane	19.110	2.0	25.00	0	76.4	50	132	19.79	3.50	20	
1,2-Dibromoethane	21.570	1.0	25.00	0	86.3	80	121	21.30	1.26	20	
1,2-Dichlorobenzene	25.820	1.0	25.00	0	103	71	122	25.80	0.0775	20	
1,2-Dichloroethane	22.300	0.50	25.00	0	89.2	69	132	22.03	1.22	20	
1,2-Dichloropropane	22.680	1.0	25.00	0	90.7	75	125	22.88	0.878	20	
1,3,5-Trimethylbenzene	27.680	1.0	25.00	0	111	74	131	28.11	1.54	20	
1,3-Dichlorobenzene	27.080	1.0	25.00	0	108	75	124	27.29	0.772	20	
1,3-Dichloropropane	22.280	1.0	25.00	0	89.1	73	126	22.85	2.53	20	
1,4-Dichlorobenzene	26.740	1.0	25.00	0	107	74	123	27.08	1.26	20	
2,2-Dichloropropane	21.590	1.0	25.00	0	86.4	69	137	21.84	1.15	20	
2-Butanone	102.380	10	250.0	0	41.0	49	136	105.5	2.99	20	S
2-Chlorotoluene	27.080	1.0	25.00	0	108	73	126	27.50	1.54	20	
4-Chlorotoluene	27.260	1.0	25.00	0	109	74	128	27.67	1.49	20	
4-Isopropyltoluene	28.550	1.0	25.00	0	114	73	130	28.97	1.46	20	
4-Methyl-2-pentanone	184.130	10	250.0	0	73.7	58	134	187.4	1.77	20	
Acetone	58.000	10	250.0	0	23.2	40	135	59.25	2.13	20	S
Benzene	24.990	1.0	25.00	0	100	81	122	24.82	0.683	20	
Bromobenzene	25.800	1.0	25.00	0	103	76	124	26.19	1.50	20	
Bromochloromethane	21.290	1.0	25.00	0	85.2	65	129	21.27	0.0940	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	21.010	1.0	25.00	0	84.0	76	121	21.29	1.32	20	
Bromoform	20.280	1.0	25.00	0	81.1	69	128	20.75	2.29	20	
Bromomethane	24.420	1.0	25.00	0	97.7	53	141	24.58	0.653	20	
Carbon disulfide	23.250	1.0	25.00	0	93.0	75	125	23.59	1.45	20	
Carbon tetrachloride	21.830	1.0	25.00	0	87.3	66	138	21.65	0.828	20	
Chlorobenzene	25.960	1.0	25.00	0	104	81	122	26.20	0.920	20	
Chloroethane	27.690	1.0	25.00	0	111	58	133	27.67	0.0723	20	
Chloroform	24.070	1.0	25.00	0	96.3	69	128	24.27	0.827	20	
Chloromethane	25.010	1.0	25.00	0	100	56	131	25.23	0.876	20	
cis-1,2-Dichloroethene	24.160	1.0	25.00	0	96.6	72	126	24.53	1.52	20	
cis-1,3-Dichloropropene	23.200	1.0	25.00	0	92.8	69	131	23.30	0.430	20	
Dibromochloromethane	21.730	1.0	25.00	0	86.9	66	133	22.48	3.39	20	
Dibromomethane	21.760	1.0	25.00	0	87.0	76	125	22.09	1.51	20	
Dichlorodifluoromethane	25.640	1.0	25.00	0	103	53	153	26.04	1.55	20	
Ethylbenzene	26.820	1.0	25.00	0	107	73	127	27.22	1.48	20	
Freon-113	21.890	1.0	25.00	0	87.6	75	125	22.10	0.955	20	
Hexachlorobutadiene	29.030	1.0	25.00	0	116	67	131	29.43	1.37	20	
Isopropylbenzene	28.150	1.0	25.00	0.4400	111	75	127	30.53	8.11	20	
m,p-Xylene	54.790	1.0	50.00	0	110	76	128	55.35	1.02	20	
Methylene chloride	22.030	5.0	25.00	0	88.1	63	137	22.17	0.633	20	
MTBE	32.720	1.0	25.00	14.30	73.7	65	123	33.88	3.48	20	
n-Butylbenzene	29.220	1.0	25.00	0	117	69	137	29.63	1.39	20	
n-Propylbenzene	28.410	1.0	25.00	0	114	72	129	28.79	1.33	20	
Naphthalene	22.630	1.0	25.00	0	90.5	54	138	23.69	4.58	20	
o-Xylene	26.020	1.0	25.00	0	104	80	121	26.54	1.98	20	
sec-Butylbenzene	28.190	1.0	25.00	0	113	72	127	28.37	0.636	20	
Styrene	25.270	1.0	25.00	0	101	65	134	26.26	3.84	20	
tert-Butylbenzene	27.670	1.0	25.00	0	111	70	129	28.11	1.58	20	
Tetrachloroethene	27.400	1.0	25.00	0	110	66	128	28.12	2.59	20	
Toluene	24.870	2.5	25.00	0	99.5	77	122	24.65	0.889	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005171-001FMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **ZZZZZZ** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	23.060	1.0	25.00	0	92.2	63	137	23.46	1.72	20	
trans-1,3-Dichloropropene	22.690	1.0	25.00	0	90.8	59	135	22.76	0.308	20	
Trichloroethene	24.620	1.0	25.00	0	98.5	70	127	25.18	2.25	20	
Trichlorofluoromethane	25.520	1.0	25.00	0	102	57	129	26.28	2.93	20	
Vinyl chloride	24.510	1.0	25.00	0	98.0	50	134	24.82	1.26	20	
Xylenes, Total	80.810	2.0	75.00	0	108	75	125	81.89	1.33	20	
Surr: 1,2-Dichloroethane-d4	21.200		25.00		84.8	72	119		0		
Surr: 4-Bromofluorobenzene	25.590		25.00		102	76	119		0		
Surr: Dibromofluoromethane	23.820		25.00		95.3	85	115		0		
Surr: Toluene-d8	26.200		25.00		105	81	120		0		

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethylbenzene	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110120MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78900**
Client ID: **PBW** Batch ID: **D11VW007** TestNo: **EPA 8260B** Analysis Date: **1/20/2011** SeqNo: **1239136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	5.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.5									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	21.610		25.00		86.4	72	119				
Surr: 4-Bromofluorobenzene	27.200		25.00		109	76	119				
Surr: Dibromofluoromethane	21.940		25.00		87.8	85	115				
Surr: Toluene-d8	26.920		25.00		108	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005196
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110125LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **LCSW** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	231.570	20	250.0	0	92.6	75	125				
Acrylonitrile	246.790	20	250.0	0	98.7	75	125				

Sample ID: **N005171-002BMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **ZZZZZZ** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	184.970	20	250.0	0	74.0	75	125				S
Acrylonitrile	189.360	20	250.0	0	75.7	75	125				

Sample ID: **N005171-002BMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **ZZZZZZ** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	183.960	20	250.0	0	73.6	75	125	185.0	0.548	20	S
Acrylonitrile	189.940	20	250.0	0	76.0	75	125	189.4	0.306	20	

Sample ID: **D110125MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **78901**
Client ID: **PBW** Batch ID: **D11VW009** TestNo: **EPA 8260B** Analysis Date: **1/25/2011** SeqNo: **1239158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	ND	20									
Acrylonitrile	ND	20									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

AIR TECHNOLOGY
Laboratories, Inc.

January 28, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118

LABORATORY TEST RESULTS

Project Reference: N005194
Lab Number: C011705-01

Enclosed are results for sample(s) received 1/17/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

C011705-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 FAX: 7023072691

QC Level: RTNE

Subcontractor:
ATL Air Labs
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: James Dye

15-Jan-11

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests ASTM D1946	EPA TO15	EPA TO3
01	N005194-001A / VINF-01-14	Air	1/14/2011	TEDLAR BAG	1	1	1

General Comments. Please email sample receipt acknowledgement to the PM.
Please use PO#: N005194 Please fax results by: Normal TAT
Please analyze for TO3, TO15 and O2 ,Argon, CO2 and CH4 by ASTM 1946.

		Date/Time			Date/Time
Relinquished by:		1/15/11	Received by:		1/17/11 via email
Relinquished by:			Received by:		

CHAIN OF CUSTODY RECORD

Pg _____ of _____

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____

Logged By: _____ Date: _____

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport
☐ Client ☐ ATL
☐ FedEx ☐ OnTrac
☐ GSO
☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client:
Attn: ATL - LV

Address:
City State Zip Code

TEL:
FAX:

Project Name: Project #: Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) Date: 1/17/11 Time: 10:13 Received by: (Signature and Printed Name) Date: 1/17/11 Time: 1015

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:

Print Name Date

Signature

Send Report To:
Attn: _____
Co: _____
Addr: _____
City: State: Zip:

Bill To:
Attn: _____
Co: _____
Addr: _____
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
		VINF-01-14	1/14/11	1425																		2			

QA/QC
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode ____
OTHER ____

- TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: ☐A= Overnight ≤ 24 hrs ☐B= Emergency Next workday ☐C= Critical 2 Workdays ☐D= Urgent 3 Workdays ☐E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Rev. 2010-0325

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: N005194
Project No.: NA
Date Received: 01/17/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	C011705-01							
Client Sample I.D.:	N005194-001A / VINF-01-14							
Date Sampled:	01/14/11							
Date Analyzed:	01/17/11							
QC Batch No.:	110117MS2A1							
Analyst Initials:	DT							
Dilution Factor:	10							
ANALYTE	**Result ppbv**	**RL ppbv**						
Dichlorodifluoromethane (12)	ND	10						
Chloromethane	100	20						
1,2-Cl-1,1,2,2-F ethane (114)	ND	10						
Vinyl Chloride	ND	10						
Bromomethane	ND	10						
Chloroethane	ND	10						
Trichlorofluoromethane (11)	ND	10						
1,1-Dichloroethene	ND	10						
Carbon Disulfide	ND	50						
1,1,2-Cl 1,2,2-F ethane (113)	ND	10						
Acetone	72	50						
Methylene Chloride	ND	10						
t-1,2-Dichloroethene	ND	10						
1,1-Dichloroethane	ND	10						
Vinyl Acetate	ND	50						
c-1,2-Dichloroethene	ND	10						
2-Butanone	ND	10						
t-Butyl Methyl Ether (MTBE)	ND	10						
Chloroform	ND	10						
1,1,1-Trichloroethane	ND	10						
Carbon Tetrachloride	ND	10						
Benzene	340	10						
1,2-Dichloroethane	ND	10						
Trichloroethene	ND	10						
1,2-Dichloropropane	ND	10						
Bromodichloromethane	ND	10						
c-1,3-Dichloropropene	ND	10						
4-Methyl-2-Pentanone	ND	10						
Toluene	89	10						
t-1,3-Dichloropropene	ND	10						
1,1,2-Trichloroethane	ND	10						

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: N005194
Project No.: NA
Date Received: 01/17/11
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	**C011705-01**							
Client Sample I.D.:	**N005194-001A / VINF-01-14**							
Date Sampled:	**01/14/11**							
Date Analyzed:	**01/17/11**							
QC Batch No.:	**110117MS2A1**							
Analyst Initials:	**DT**							
Dilution Factor:	**10**							
ANALYTE	**Result ppbv**	**RL ppbv**						
Tetrachloroethene	ND	10						
2-Hexanone	ND	10						
Dibromochloromethane	ND	10						
1,2-Dibromoethane	ND	10						
Chlorobenzene	ND	10						
Ethylbenzene	34	10						
p,&m-Xylene	130	10						
o-Xylene	53	10						
Styrene	ND	10						
Bromoform	ND	10						
1,1,2,2-Tetrachloroethane	ND	20						
Benzyl Chloride	ND	10						
4-Ethyl Toluene	50	10						
1,3,5-Trimethylbenzene	23	20						
1,2,4-Trimethylbenzene	58	20						
1,3-Dichlorobenzene	ND	10						
1,4-Dichlorobenzene	ND	10						
1,2-Dichlorobenzene	ND	10						
1,2,4-Trichlorobenzene	ND	20						
Hexachlorobutadiene	ND	10						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 1-28-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 110117MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/17/11		01/18/11		01/18/11						
Data File ID:	17JAN019.D		17JAN039.D		17JAN040.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.8	108	10.7	107	1.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.3	103	9.8	98	5.4	70	130	30	Pass
Trichloroethene	0.0	10.0	10.0	100	9.8	98	2.4	70	130	30	Pass
Toluene	0.0	10.0	10.3	103	9.7	97	5.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.9	109	10.0	100	8.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 1-28-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: N005194
Project No.: NA
Date Received: 01/17/11
Matrix: Air
Reporting Units: ppmv

EPA METHOD TO3

Lab No.:	**C011705-01**							
Client Sample I.D.:	**N005194-001A / VINF-01-14**							
Date Sampled:	**01/14/11**							
Date Analyzed:	**01/17/11**							
QC Batch No.:	**110117GC11A1**							
Analyst Initials:	**ZK**							
Dilution Factor:	**1.0**							
ANALYTE	**Result ppmv**	**RL ppmv**						
TPH as Gasoline	68	1.0						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 1-28-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY *Laboratories, Inc.*
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 110117GC11A1
Matrix: Air
Units: ppmv

QC for EPA Method TO-3

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	01/17/11		01/17/11		01/17/11			
Analyst Initials:	ZK		ZK		ZK			
Gasoline Datafile:	17jan003		17jan001		17jan002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TVPH as Gasoline	ND	1.0	88	70-130%	88	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 1-28-11

Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Advanced Technology Laboratories
Attn: Marlon Cartin
Project Name: N005194
Project No.: NA
Date Received: 01/17/11
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**C011705-01**							
Client Sample I.D.:	**N005194-001A / VINF-01-14**							
Date Sampled:	**01/14/11**							
Date Analyzed:	**01/17/11**							
QC Batch No.:	**110117GC8A1**							
Analyst Initials:	**ZK**							
Dilution Factor:	**1.0**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Carbon Dioxide	**0.20**	0.010						
Oxygen/Argon	**22**	0.50						
Methane	**0.016**	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 1-28-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY *Laboratories, Inc.*
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 110117GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		01/17/11		01/17/11		01/17/11			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		17jan009		17jan007		17jan008			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	109	70-130%	107	70-130%	2.1	<30
Methane	0.0010	0.0010	ND	89	70-130%	90	70-130%	1.3	<30
Carbon Dioxide	0.010	0.010	ND	97	70-130%	97	70-130%	0.1	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 1-28-11
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

February 21, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005337

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on February 09, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005337

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories *3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

Advanced Technology Laboratories, Inc.

Date: *21-Feb-11*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005337
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005337-001A	INF-02-08	Wastewater	2/8/2011 10:20:00 AM	2/9/2011	
N005337-001B	INF-02-08	Wastewater	2/8/2011 10:20:00 AM	2/9/2011	
N005337-001C	INF-02-08	Wastewater	2/8/2011 10:20:00 AM	2/9/2011	

Advanced Technology Laboratories
3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N005337
Project: SFPP - Norwalk Site
Lab ID: N005337-001

Client Sample ID: INF-02-08
Collection Date: 2/8/2011 10:20:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TPH-FUEL PRODUCT BY GC/FID							
	EPA 3510C				**EPA 8015B**		
RunID: **GC3_110215C**	QC Batch: **36247**				PrepDate: **2/14/2011**		Analyst: **MDM**
TPH-Fuel Product	3500	13	50		ug/L	1	2/16/2011 12:50 AM
Surr: Octacosane	134	0	26-152		%REC	1	2/16/2011 12:50 AM
Surr: p-Terphenyl	94.2	0	57-132		%REC	1	2/16/2011 12:50 AM
GASOLINE RANGE ORGANICS BY GC/FID							
					EPA 8015B		
RunID: **GC4_110210C**	QC Batch: **E11VW004**				PrepDate:		Analyst: **QBM**
TPH-Gasoline	5600	6.0	100		µg/L	1	2/10/2011
Surr: Chlorobenzene - d5	110	0	74-138		%REC	1	2/10/2011
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					EPA 8260B		
RunID: **MS4_110210A**	QC Batch: **K11VW002**				PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		µg/L	1	2/10/2011 02:18 PM
1,1,1-Trichloroethane	ND	0.068	1.0		µg/L	1	2/10/2011 02:18 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		µg/L	1	2/10/2011 02:18 PM
1,1,2-Trichloroethane	ND	0.083	1.0		µg/L	1	2/10/2011 02:18 PM
1,1-Dichloroethane	ND	0.099	0.50		µg/L	1	2/10/2011 02:18 PM
1,1-Dichloroethene	ND	0.094	1.0		µg/L	1	2/10/2011 02:18 PM
1,1-Dichloropropene	ND	0.082	1.0		µg/L	1	2/10/2011 02:18 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		µg/L	1	2/10/2011 02:18 PM
1,2,3-Trichloropropane	ND	0.12	1.0		µg/L	1	2/10/2011 02:18 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		µg/L	1	2/10/2011 02:18 PM
1,2,4-Trimethylbenzene	32	0.095	1.0		µg/L	1	2/10/2011 02:18 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	2/10/2011 02:18 PM
1,2-Dibromoethane	ND	0.14	1.0		µg/L	1	2/10/2011 02:18 PM
1,2-Dichlorobenzene	ND	0.070	1.0		µg/L	1	2/10/2011 02:18 PM
1,2-Dichloroethane	ND	0.17	0.50		µg/L	1	2/10/2011 02:18 PM
1,2-Dichloropropane	ND	0.085	1.0		µg/L	1	2/10/2011 02:18 PM
1,3,5-Trimethylbenzene	11	0.087	1.0		µg/L	1	2/10/2011 02:18 PM
1,3-Dichlorobenzene	ND	0.090	1.0		µg/L	1	2/10/2011 02:18 PM
1,3-Dichloropropane	ND	0.074	1.0		µg/L	1	2/10/2011 02:18 PM
1,4-Dichlorobenzene	ND	0.092	1.0		µg/L	1	2/10/2011 02:18 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	2/10/2011 02:18 PM
2-Butanone	ND	1.0	10		µg/L	1	2/10/2011 02:18 PM
2-Chlorotoluene	ND	0.080	1.0		µg/L	1	2/10/2011 02:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N005337
Project: SFPP - Norwalk Site
Lab ID: N005337-001

Client Sample ID: INF-02-08
Collection Date: 2/8/2011 10:20:00 AM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_110210A** QC Batch: **K11VW002** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	0.10	1.0		µg/L	1	2/10/2011 02:18 PM
4-Isopropyltoluene	ND	0.080	1.0		µg/L	1	2/10/2011 02:18 PM
4-Methyl-2-pentanone	ND	0.76	10		µg/L	1	2/10/2011 02:18 PM
Acetone	11	1.6	10		µg/L	1	2/10/2011 02:18 PM
Acrolein	ND	4.3	20		µg/L	1	2/10/2011 02:18 PM
Acrylonitrile	ND	0.61	20		µg/L	1	2/10/2011 02:18 PM
Benzene	2400	7.5	100		µg/L	100	2/10/2011 01:25 PM
Bromobenzene	ND	0.082	1.0		µg/L	1	2/10/2011 02:18 PM
Bromochloromethane	ND	0.15	1.0		µg/L	1	2/10/2011 02:18 PM
Bromodichloromethane	ND	0.063	1.0		µg/L	1	2/10/2011 02:18 PM
Bromoform	ND	0.086	1.0		µg/L	1	2/10/2011 02:18 PM
Bromomethane	ND	0.13	1.0		µg/L	1	2/10/2011 02:18 PM
Carbon disulfide	ND	0.054	1.0		µg/L	1	2/10/2011 02:18 PM
Carbon tetrachloride	ND	0.10	1.0		µg/L	1	2/10/2011 02:18 PM
Chlorobenzene	ND	0.092	1.0		µg/L	1	2/10/2011 02:18 PM
Chloroethane	ND	0.14	1.0		µg/L	1	2/10/2011 02:18 PM
Chloroform	ND	0.058	1.0		µg/L	1	2/10/2011 02:18 PM
Chloromethane	ND	0.054	1.0		µg/L	1	2/10/2011 02:18 PM
cis-1,2-Dichloroethene	ND	0.11	1.0		µg/L	1	2/10/2011 02:18 PM
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	2/10/2011 02:18 PM
Dibromochloromethane	ND	0.061	1.0		µg/L	1	2/10/2011 02:18 PM
Dibromomethane	ND	0.15	1.0		µg/L	1	2/10/2011 02:18 PM
Dichlorodifluoromethane	ND	0.12	1.0		µg/L	1	2/10/2011 02:18 PM
Ethylbenzene	43	0.051	1.0		µg/L	1	2/10/2011 02:18 PM
Freon-113	ND	0.080	1.0		µg/L	1	2/10/2011 02:18 PM
Hexachlorobutadiene	ND	0.17	1.0		µg/L	1	2/10/2011 02:18 PM
Isopropylbenzene	8.6	0.057	1.0		µg/L	1	2/10/2011 02:18 PM
m,p-Xylene	140	0.17	1.0		µg/L	1	2/10/2011 02:18 PM
Methylene chloride	ND	0.10	5.0		µg/L	1	2/10/2011 02:18 PM
MTBE	420	0.89	10		µg/L	10	2/10/2011 01:55 PM
n-Butylbenzene	1.2	0.082	1.0		µg/L	1	2/10/2011 02:18 PM
n-Propylbenzene	18	0.087	1.0		µg/L	1	2/10/2011 02:18 PM
Naphthalene	110	0.056	1.0		µg/L	1	2/10/2011 02:18 PM
o-Xylene	48	0.077	1.0		µg/L	1	2/10/2011 02:18 PM
sec-Butylbenzene	1.4	0.098	1.0		µg/L	1	2/10/2011 02:18 PM
Styrene	ND	0.072	1.0		µg/L	1	2/10/2011 02:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N005337
Project: SFPP - Norwalk Site
Lab ID: N005337-001

Client Sample ID: INF-02-08
Collection Date: 2/8/2011 10:20:00 AM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_110210A** QC Batch: **K11VW002** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
tert-Butylbenzene	ND	0.062	1.0		µg/L	1	2/10/2011 02:18 PM
Tetrachloroethene	ND	0.13	1.0		µg/L	1	2/10/2011 02:18 PM
Toluene	110	0.12	2.5		µg/L	1	2/10/2011 02:18 PM
trans-1,2-Dichloroethene	ND	0.094	1.0		µg/L	1	2/10/2011 02:18 PM
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	2/10/2011 02:18 PM
Trichloroethene	ND	0.060	1.0		µg/L	1	2/10/2011 02:18 PM
Trichlorofluoromethane	ND	0.097	1.0		µg/L	1	2/10/2011 02:18 PM
Vinyl chloride	ND	0.12	1.0		µg/L	1	2/10/2011 02:18 PM
Xylenes, Total	190	1.5	2.0		µg/L	1	2/10/2011 02:18 PM
Surr: 1,2-Dichloroethane-d4	94.8	0	72-119		%REC	1	2/10/2011 02:18 PM
Surr: 1,2-Dichloroethane-d4	96.7	0	72-119		%REC	10	2/10/2011 01:55 PM
Surr: 1,2-Dichloroethane-d4	94.2	0	72-119		%REC	100	2/10/2011 01:25 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	2/10/2011 02:18 PM
Surr: 4-Bromofluorobenzene	98.0	0	76-119		%REC	100	2/10/2011 01:25 PM
Surr: 4-Bromofluorobenzene	99.6	0	76-119		%REC	10	2/10/2011 01:55 PM
Surr: Dibromofluoromethane	99.4	0	85-115		%REC	100	2/10/2011 01:25 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	10	2/10/2011 01:55 PM
Surr: Dibromofluoromethane	96.2	0	85-115		%REC	1	2/10/2011 02:18 PM
Surr: Toluene-d8	95.3	0	81-120		%REC	100	2/10/2011 01:25 PM
Surr: Toluene-d8	95.4	0	81-120		%REC	1	2/10/2011 02:18 PM
Surr: Toluene-d8	100	0	81-120		%REC	10	2/10/2011 01:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interferenc
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **LCS-36247_DRO**	SampType: **LCS**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **2/14/2011**	RunNo: **79126**
Client ID: **LCSW**	Batch ID: **36247**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **2/15/2011**	SeqNo: **1245375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	713.213	50	1000	0	71.3	61	143				
Surr: Octacosane	96.092		80.00		120	26	152				
Surr: p-Terphenyl	75.337		80.00		94.2	57	132				

Sample ID: **LCSD-36247_DRO**	SampType: **LCSD**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **2/14/2011**	RunNo: **79126**
Client ID: **LCSS02**	Batch ID: **36247**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **2/15/2011**	SeqNo: **1245376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	780.808	50	1000	0	78.1	61	143	713.2	9.05	30	
Surr: Octacosane	108.770		80.00		136	26	152		0		
Surr: p-Terphenyl	73.627		80.00		92.0	57	132		0		

Sample ID: **MB-36247**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **2/14/2011**	RunNo: **79126**
Client ID: **PBW**	Batch ID: **36247**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **2/16/2011**	SeqNo: **1245379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	48.066	50									J
Surr: Octacosane	88.241		80.00		110	26	152				
Surr: p-Terphenyl	73.010		80.00		91.3	57	132				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E110210LCS**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79109**
Client ID: **LCSW**	Batch ID: **E11VW004**	TestNo: **EPA 8015B**		Analysis Date: **2/10/2011**	SeqNo: **1244635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	853.000	100	1000	0	85.3	67	136				
Surr: Chlorobenzene - d5	47464.000		50000		94.9	74	138				

Sample ID: **E110210MB2**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79109**
Client ID: **PBW**	Batch ID: **E11VW004**	TestNo: **EPA 8015B**		Analysis Date: **2/10/2011**	SeqNo: **1244636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100									
Surr: Chlorobenzene - d5	54811.000		50000		110	74	138				

Sample ID: **N005329-001BMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79109**
Client ID: **ZZZZZZ**	Batch ID: **E11VW004**	TestNo: **EPA 8015B**		Analysis Date: **2/10/2011**	SeqNo: **1244638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	835.000	100	1000	0	83.5	67	136				
Surr: Chlorobenzene - d5	47251.000		50000		94.5	74	138				

Sample ID: **N005329-001BMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79109**
Client ID: **ZZZZZZ**	Batch ID: **E11VW004**	TestNo: **EPA 8015B**		Analysis Date: **2/10/2011**	SeqNo: **1244639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	851.000	100	1000	0	85.1	67	136	835.0	1.90	30	
Surr: Chlorobenzene - d5	48267.000		50000		96.5	74	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **K110210LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **LCSW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.320	1.0	25.00	0	101	81	129				
1,1,1-Trichloroethane	25.220	1.0	25.00	0	101	67	132				
1,1,2,2-Tetrachloroethane	25.170	1.0	25.00	0	101	63	128				
1,1,2-Trichloroethane	23.160	1.0	25.00	0	92.6	75	125				
1,1-Dichloroethane	24.900	0.50	25.00	0	99.6	69	133				
1,1-Dichloroethene	25.250	1.0	25.00	0	101	68	130				
1,1-Dichloropropene	24.730	1.0	25.00	0	98.9	73	132				
1,2,3-Trichlorobenzene	25.690	1.0	25.00	0	103	67	137				
1,2,3-Trichloropropane	24.720	1.0	25.00	0	98.9	73	124				
1,2,4-Trichlorobenzene	26.830	1.0	25.00	0	107	66	134				
1,2,4-Trimethylbenzene	26.720	1.0	25.00	0	107	74	132				
1,2-Dibromo-3-chloropropane	25.000	2.0	25.00	0	100	50	132				
1,2-Dibromoethane	23.920	1.0	25.00	0	95.7	80	121				
1,2-Dichlorobenzene	25.630	1.0	25.00	0	103	71	122				
1,2-Dichloroethane	24.170	0.50	25.00	0	96.7	69	132				
1,2-Dichloropropane	23.910	1.0	25.00	0	95.6	75	125				
1,3,5-Trimethylbenzene	27.290	1.0	25.00	0	109	74	131				
1,3-Dichlorobenzene	26.180	1.0	25.00	0	105	75	124				
1,3-Dichloropropane	24.770	1.0	25.00	0	99.1	73	126				
1,4-Dichlorobenzene	25.650	1.0	25.00	0	103	74	123				
2,2-Dichloropropane	26.770	1.0	25.00	0	107	69	137				
2-Butanone	261.470	10	250.0	0	105	49	136				
2-Chlorotoluene	26.200	1.0	25.00	0	105	73	126				
4-Chlorotoluene	26.600	1.0	25.00	0	106	74	128				
4-Isopropyltoluene	27.420	1.0	25.00	0	110	73	130				
4-Methyl-2-pentanone	272.920	10	250.0	0	109	58	134				
Acetone	273.010	10	250.0	0	109	40	135				
Acrolein	260.210	20	250.0	0	104	75	125				
Acrylonitrile	243.850	20	250.0	0	97.5	75	125				
Benzene	24.650	1.0	25.00	0	98.6	81	122				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **K110210LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **LCSW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	25.440	1.0	25.00	0	102	76	124				
Bromochloromethane	24.650	1.0	25.00	0	98.6	65	129				
Bromodichloromethane	25.770	1.0	25.00	0	103	76	121				
Bromoform	22.340	1.0	25.00	0	89.4	69	128				
Bromomethane	22.690	1.0	25.00	0	90.8	53	141				
Carbon disulfide	24.820	1.0	25.00	0	99.3	75	125				
Carbon tetrachloride	26.250	1.0	25.00	0	105	66	138				
Chlorobenzene	24.570	1.0	25.00	0	98.3	81	122				
Chloroethane	24.750	1.0	25.00	0	99.0	58	133				
Chloroform	24.740	1.0	25.00	0	99.0	69	128				
Chloromethane	24.830	1.0	25.00	0	99.3	56	131				
cis-1,2-Dichloroethene	24.990	1.0	25.00	0	100	72	126				
cis-1,3-Dichloropropene	25.650	1.0	25.00	0	103	69	131				
Dibromochloromethane	23.520	1.0	25.00	0	94.1	66	133				
Dibromomethane	23.310	1.0	25.00	0	93.2	76	125				
Dichlorodifluoromethane	25.540	1.0	25.00	0	102	53	153				
Ethylbenzene	25.290	1.0	25.00	0	101	73	127				
Freon-113	24.930	1.0	25.00	0	99.7	75	125				
Hexachlorobutadiene	26.490	1.0	25.00	0	106	67	131				
Isopropylbenzene	27.710	1.0	25.00	0	111	75	127				
m,p-Xylene	52.880	1.0	50.00	0	106	76	128				
Methylene chloride	24.290	5.0	25.00	0	97.2	63	137				
MTBE	24.170	1.0	25.00	0	96.7	65	123				
n-Butylbenzene	27.770	1.0	25.00	0	111	69	137				
n-Propylbenzene	27.650	1.0	25.00	0	111	72	129				
Naphthalene	25.070	1.0	25.00	0	100	54	138				
o-Xylene	26.570	1.0	25.00	0	106	80	121				
sec-Butylbenzene	27.070	1.0	25.00	0	108	72	127				
Styrene	26.060	1.0	25.00	0	104	65	134				
tert-Butylbenzene	27.000	1.0	25.00	0	108	70	129				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **K110210LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **LCSW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	25.290	1.0	25.00	0	101	66	128				
Toluene	24.830	2.5	25.00	0	99.3	77	122				
trans-1,2-Dichloroethene	23.750	1.0	25.00	0	95.0	63	137				
trans-1,3-Dichloropropene	24.770	1.0	25.00	0	99.1	59	135				
Trichloroethene	23.900	1.0	25.00	0	95.6	70	127				
Trichlorofluoromethane	26.030	1.0	25.00	0	104	57	129				
Vinyl chloride	25.950	1.0	25.00	0	104	50	134				
Xylenes, Total	79.450	2.0	75.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	24.770		25.00		99.1	72	119				
Surr: 4-Bromofluorobenzene	26.600		25.00		106	76	119				
Surr: Dibromofluoromethane	25.490		25.00		102	85	115				
Surr: Toluene-d8	25.590		25.00		102	81	120				

Sample ID: **N005336-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	26.100	1.0	25.00	0	104	81	129				
1,1,1-Trichloroethane	23.980	1.0	25.00	0	95.9	67	132				
1,1,2,2-Tetrachloroethane	24.970	1.0	25.00	0	99.9	63	128				
1,1,2-Trichloroethane	23.590	1.0	25.00	0	94.4	75	125				
1,1-Dichloroethane	23.430	0.50	25.00	0	93.7	69	133				
1,1-Dichloroethene	24.180	1.0	25.00	0	96.7	68	130				
1,1-Dichloropropene	25.260	1.0	25.00	0	101	73	132				
1,2,3-Trichlorobenzene	26.180	1.0	25.00	0	105	67	137				
1,2,3-Trichloropropane	25.500	1.0	25.00	0	102	73	124				
1,2,4-Trichlorobenzene	26.770	1.0	25.00	0	107	66	134				
1,2,4-Trimethylbenzene	26.390	1.0	25.00	0	106	74	132				
1,2-Dibromo-3-chloropropane	24.230	2.0	25.00	0	96.9	50	132				
1,2-Dibromoethane	24.450	1.0	25.00	0	97.8	80	121				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N005336-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	25.880	1.0	25.00	0	104	71	122				
1,2-Dichloroethane	24.690	0.50	25.00	0	98.8	69	132				
1,2-Dichloropropane	22.350	1.0	25.00	0	89.4	75	125				
1,3,5-Trimethylbenzene	27.030	1.0	25.00	0	108	74	131				
1,3-Dichlorobenzene	26.110	1.0	25.00	0	104	75	124				
1,3-Dichloropropane	24.890	1.0	25.00	0	99.6	73	126				
1,4-Dichlorobenzene	25.010	1.0	25.00	0	100	74	123				
2,2-Dichloropropane	24.970	1.0	25.00	0	99.9	69	137				
2-Butanone	121.180	10	250.0	0	48.5	49	136				S
2-Chlorotoluene	25.640	1.0	25.00	0	103	73	126				
4-Chlorotoluene	26.780	1.0	25.00	0	107	74	128				
4-Isopropyltoluene	26.970	1.0	25.00	0	108	73	130				
4-Methyl-2-pentanone	232.250	10	250.0	0	92.9	58	134				
Acetone	90.660	10	250.0	0	36.3	40	135				S
Acrolein	236.510	20	250.0	0	94.6	75	125				
Acrylonitrile	223.480	20	250.0	0	89.4	75	125				
Benzene	24.830	1.0	25.00	0	99.3	81	122				
Bromobenzene	25.980	1.0	25.00	0	104	76	124				
Bromochloromethane	24.430	1.0	25.00	0	97.7	65	129				
Bromodichloromethane	24.720	1.0	25.00	0	98.9	76	121				
Bromoform	23.950	1.0	25.00	0	95.8	69	128				
Bromomethane	21.100	1.0	25.00	0	84.4	53	141				
Carbon disulfide	23.270	1.0	25.00	0	93.1	75	125				
Carbon tetrachloride	26.150	1.0	25.00	0	105	66	138				
Chlorobenzene	24.460	1.0	25.00	0	97.8	81	122				
Chloroethane	24.570	1.0	25.00	0	98.3	58	133				
Chloroform	23.960	1.0	25.00	0	95.8	69	128				
Chloromethane	23.060	1.0	25.00	0	92.2	56	131				
cis-1,2-Dichloroethene	24.390	1.0	25.00	0	97.6	72	126				
cis-1,3-Dichloropropene	25.450	1.0	25.00	0	102	69	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N005336-001AMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	23.710	1.0	25.00	0	94.8	66	133				
Dibromomethane	24.190	1.0	25.00	0	96.8	76	125				
Dichlorodifluoromethane	23.960	1.0	25.00	0	95.8	53	153				
Ethylbenzene	25.310	1.0	25.00	0	101	73	127				
Freon-113	24.060	1.0	25.00	0	96.2	75	125				
Hexachlorobutadiene	25.210	1.0	25.00	0	101	67	131				
Isopropylbenzene	26.530	1.0	25.00	0	106	75	127				
m,p-Xylene	52.520	1.0	50.00	0	105	76	128				
Methylene chloride	23.350	5.0	25.00	0	93.4	63	137				
MTBE	23.000	1.0	25.00	0	92.0	65	123				
n-Butylbenzene	27.170	1.0	25.00	0	109	69	137				
n-Propylbenzene	26.560	1.0	25.00	0	106	72	129				
Naphthalene	26.500	1.0	25.00	0	106	54	138				
o-Xylene	25.860	1.0	25.00	0	103	80	121				
sec-Butylbenzene	26.190	1.0	25.00	0	105	72	127				
Styrene	25.620	1.0	25.00	0	102	65	134				
tert-Butylbenzene	26.040	1.0	25.00	0	104	70	129				
Tetrachloroethene	24.150	1.0	25.00	0	96.6	66	128				
Toluene	24.230	2.5	25.00	0	96.9	77	122				
trans-1,2-Dichloroethene	23.000	1.0	25.00	0	92.0	63	137				
trans-1,3-Dichloropropene	23.610	1.0	25.00	0	94.4	59	135				
Trichloroethene	23.160	1.0	25.00	0	92.6	70	127				
Trichlorofluoromethane	24.290	1.0	25.00	0	97.2	57	129				
Vinyl chloride	24.330	1.0	25.00	0	97.3	50	134				
Xylenes, Total	78.380	2.0	75.00	0	105	75	125				
Surr: 1,2-Dichloroethane-d4	24.210		25.00		96.8	72	119				
Surr: 4-Bromofluorobenzene	26.460		25.00		106	76	119				
Surr: Dibromofluoromethane	24.880		25.00		99.5	85	115				
Surr: Toluene-d8	25.050		25.00		100	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N005336-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	24.660	1.0	25.00	0	98.6	81	129	26.10	5.67	20	
1,1,1-Trichloroethane	25.640	1.0	25.00	0	103	67	132	23.98	6.69	20	
1,1,2,2-Tetrachloroethane	25.230	1.0	25.00	0	101	63	128	24.97	1.04	20	
1,1,2-Trichloroethane	23.870	1.0	25.00	0	95.5	75	125	23.59	1.18	20	
1,1-Dichloroethane	24.800	0.50	25.00	0	99.2	69	133	23.43	5.68	20	
1,1-Dichloroethene	23.960	1.0	25.00	0	95.8	68	130	24.18	0.914	20	
1,1-Dichloropropene	25.030	1.0	25.00	0	100	73	132	25.26	0.915	20	
1,2,3-Trichlorobenzene	26.120	1.0	25.00	0	104	67	137	26.18	0.229	20	
1,2,3-Trichloropropane	26.160	1.0	25.00	0	105	73	124	25.50	2.56	20	
1,2,4-Trichlorobenzene	26.700	1.0	25.00	0	107	66	134	26.77	0.262	20	
1,2,4-Trimethylbenzene	25.850	1.0	25.00	0	103	74	132	26.39	2.07	20	
1,2-Dibromo-3-chloropropane	24.750	2.0	25.00	0	99.0	50	132	24.23	2.12	20	
1,2-Dibromoethane	25.380	1.0	25.00	0	102	80	121	24.45	3.73	20	
1,2-Dichlorobenzene	25.870	1.0	25.00	0	103	71	122	25.88	0.0386	20	
1,2-Dichloroethane	24.250	0.50	25.00	0	97.0	69	132	24.69	1.80	20	
1,2-Dichloropropane	23.860	1.0	25.00	0	95.4	75	125	22.35	6.54	20	
1,3,5-Trimethylbenzene	26.830	1.0	25.00	0	107	74	131	27.03	0.743	20	
1,3-Dichlorobenzene	25.440	1.0	25.00	0	102	75	124	26.11	2.60	20	
1,3-Dichloropropane	25.080	1.0	25.00	0	100	73	126	24.89	0.760	20	
1,4-Dichlorobenzene	24.820	1.0	25.00	0	99.3	74	123	25.01	0.763	20	
2,2-Dichloropropane	26.370	1.0	25.00	0	105	69	137	24.97	5.45	20	
2-Butanone	129.750	10	250.0	0	51.9	49	136	121.2	6.83	20	
2-Chlorotoluene	25.530	1.0	25.00	0	102	73	126	25.64	0.430	20	
4-Chlorotoluene	26.220	1.0	25.00	0	105	74	128	26.78	2.11	20	
4-Isopropyltoluene	26.650	1.0	25.00	0	107	73	130	26.97	1.19	20	
4-Methyl-2-pentanone	248.760	10	250.0	0	99.5	58	134	232.2	6.86	20	
Acetone	96.610	10	250.0	0	38.6	40	135	90.66	6.35	20	S
Acrolein	266.020	20	250.0	0	106	75	125	236.5	11.7	20	
Acrylonitrile	248.220	20	250.0	0	99.3	75	125	223.5	10.5	20	
Benzene	24.840	1.0	25.00	0	99.4	81	122	24.83	0.0403	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N005336-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	25.510	1.0	25.00	0	102	76	124	25.98	1.83	20	
Bromochloromethane	25.920	1.0	25.00	0	104	65	129	24.43	5.92	20	
Bromodichloromethane	26.510	1.0	25.00	0	106	76	121	24.72	6.99	20	
Bromoform	24.030	1.0	25.00	0	96.1	69	128	23.95	0.333	20	
Bromomethane	22.730	1.0	25.00	0	90.9	53	141	21.10	7.44	20	
Carbon disulfide	24.500	1.0	25.00	0	98.0	75	125	23.27	5.15	20	
Carbon tetrachloride	26.390	1.0	25.00	0	106	66	138	26.15	0.914	20	
Chlorobenzene	24.900	1.0	25.00	0	99.6	81	122	24.46	1.78	20	
Chloroethane	24.950	1.0	25.00	0	99.8	58	133	24.57	1.53	20	
Chloroform	25.000	1.0	25.00	0	100	69	128	23.96	4.25	20	
Chloromethane	24.780	1.0	25.00	0	99.1	56	131	23.06	7.19	20	
cis-1,2-Dichloroethene	25.540	1.0	25.00	0	102	72	126	24.39	4.61	20	
cis-1,3-Dichloropropene	26.730	1.0	25.00	0	107	69	131	25.45	4.91	20	
Dibromochloromethane	24.150	1.0	25.00	0	96.6	66	133	23.71	1.84	20	
Dibromomethane	25.150	1.0	25.00	0	101	76	125	24.19	3.89	20	
Dichlorodifluoromethane	25.120	1.0	25.00	0	100	53	153	23.96	4.73	20	
Ethylbenzene	25.510	1.0	25.00	0	102	73	127	25.31	0.787	20	
Freon-113	25.510	1.0	25.00	0	102	75	125	24.06	5.85	20	
Hexachlorobutadiene	25.090	1.0	25.00	0	100	67	131	25.21	0.477	20	
Isopropylbenzene	26.400	1.0	25.00	0	106	75	127	26.53	0.491	20	
m,p-Xylene	53.710	1.0	50.00	0	107	76	128	52.52	2.24	20	
Methylene chloride	24.990	5.0	25.00	0	100	63	137	23.35	6.79	20	
MTBE	24.900	1.0	25.00	0	99.6	65	123	23.00	7.93	20	
n-Butylbenzene	26.490	1.0	25.00	0	106	69	137	27.17	2.53	20	
n-Propylbenzene	27.020	1.0	25.00	0	108	72	129	26.56	1.72	20	
Naphthalene	26.020	1.0	25.00	0	104	54	138	26.50	1.83	20	
o-Xylene	26.720	1.0	25.00	0	107	80	121	25.86	3.27	20	
sec-Butylbenzene	26.320	1.0	25.00	0	105	72	127	26.19	0.495	20	
Styrene	26.340	1.0	25.00	0	105	65	134	25.62	2.77	20	
tert-Butylbenzene	26.150	1.0	25.00	0	105	70	129	26.04	0.422	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N005336-001AMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **ZZZZZZ** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	24.750	1.0	25.00	0	99.0	66	128	24.15	2.45	20	
Toluene	25.140	2.5	25.00	0	101	77	122	24.23	3.69	20	
trans-1,2-Dichloroethene	23.960	1.0	25.00	0	95.8	63	137	23.00	4.09	20	
trans-1,3-Dichloropropene	25.940	1.0	25.00	0	104	59	135	23.61	9.40	20	
Trichloroethene	23.330	1.0	25.00	0	93.3	70	127	23.16	0.731	20	
Trichlorofluoromethane	25.400	1.0	25.00	0	102	57	129	24.29	4.47	20	
Vinyl chloride	25.480	1.0	25.00	0	102	50	134	24.33	4.62	20	
Xylenes, Total	80.430	2.0	75.00	0	107	75	125	78.38	2.58	20	
Surr: 1,2-Dichloroethane-d4	25.010		25.00		100	72	119		0		
Surr: 4-Bromofluorobenzene	27.280		25.00		109	76	119		0		
Surr: Dibromofluoromethane	26.020		25.00		104	85	115		0		
Surr: Toluene-d8	25.800		25.00		103	81	120		0		

Sample ID: **K110210MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **PBW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **K110210MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **PBW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005337
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **K110210MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **79031**
Client ID: **PBW** Batch ID: **K11VW002** TestNo: **EPA 8260B** Analysis Date: **2/10/2011** SeqNo: **1242265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	5.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.5									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.990		25.00		100	72	119				
Surr: 4-Bromofluorobenzene	25.030		25.00		100	76	119				
Surr: Dibromofluoromethane	25.770		25.00		103	85	115				
Surr: Toluene-d8	26.240		25.00		105	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

atories

ax: 702-307-2691

narlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 02-08-11

PAGE: 1 OF 1

l Energy Partners, Attn: Steve Defibaugh

l & Country Road

Orange, CA 92868

TEL: 714-560-4802 | FAX: 714-560-4601 | E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site

PROJECT CONTACT: James Dye

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)	Comments
	INF-02-08	Influent	02-08-11	1020	WW	7	X	X	X	Temperature* = _____
										(Temp. as sampled*)
										Monthly

Relinquished by: (Signature)	Received by: (Signature)	Date: 2/9/11	Time: 1540
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/9/11	Time: 1608
Relinquished by: (Signature) C. Argote Ontrac 2/9	Received by: (Signature)	Date: 2/10/11	Time: 9:15

Revised: 01/11/11

WWW.CALOVER.COM

OnTrac
On Time Delivery For Less

800-334-5000
Call For A Pickup!

Account Number [redacted] B10262325830

Date 02 09 11

B10262325830

FROM (Company): ENVIRO TREATMENT & TECHNOLOGY*

Street Address: 3275 WALNUT AVE Suite

City: SIGNAL HILL

State: CA Zip Code (Required): 90755 Phone Number: - -

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX: ATL

Street Address: 3151 W POST RD

Suite #: City: LAS VEGAS

State: NV Zip Code (Required): 89118 Phone Number: 702-307-2649

Recipient's Name: MARLUN C

Shipper's Ref. #: CH2MHILL 020911

Service Options

*If no box is checked, Sunrise Service will be applied.
**Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M.
Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.

- [x] SUNRISE - BY 10:30 AM*
- [ ] SUNRISE GOLD - BY 8:00 AM*
- [ ] HEAVYWEIGHT**
- [ ] Saturday Delivery - Extra Charge (see Service Guide for details)
- [ ] HOLD FOR PICKUP
- [x] This shipment requires a delivery signature
- [ ] Declared Value $ (maximum $25,000) [redacted]
- [ ] C.O.D. Amount $, Limit $10,000 (affix C.O.D. tag to package)

Billing Information

If none is selected, shipper will be invoiced.

- [ ] Bill Shipper's Account
- [x] Bill Other Acct # [redacted]

Dim weight charge if greater than actual wei

L in. X W in. X H in. ÷200 = ____

- [ ] Secured Payment (Money Order or Certified Check)
- [ ] Unsecured Payment (Company Check or Personal Chec

Weight

- [ ] 8 oz. Lette or

Weight lbs (Subject t verificatior

Driver # | Pick-up Time | Shipper's Signature

Driver's Initials | Shipper's Name: C AGUILA

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO and/or NA signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Sample Receipt Checklist

Cooler Received/Opened On:	2/10/2011	Workorder:	N005337
Rep sample Temp (Deg C):	1.2	IR Gun ID:	IR 1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	OnTrac		
Last 4 digits of Tracking No.:	5830	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed B NS 2/10/11

Reviewed By: 2/11/11

February 21, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005335

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on February 09, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

Advanced Technology Laboratories, Inc.

Date: *21-Feb-11*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005335
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005335-001A	VINF-02-08	Air	2/8/2011 12:20:00 PM	2/9/2011	
N005335-001B	VINF-02-08	Air	2/8/2011 12:20:00 PM	2/9/2011	
N005335-001C	VINF-02-08	Air	2/8/2011 12:20:00 PM	2/9/2011	

Advanced Technology Laboratories
3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CASE NARRATIVE

Subcontracted Analyses:

TO-15 and TO-3 were subcontracted to Advanced Technology Laboratories-Signal Hill, CA.

ASTM 1946 was subcontracted to Air Technology Laboratories.

Advanced Technology Laboratories
3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 02-08-11

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Definbough
ADDRESS: 1100 Town & Country Road
CITY: Orange, CA 92868
TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF- 02-08-	Inf. Vapor (from header)	02-08-11	1220	Air	4	X	X	X	Monthly sample

		Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	2/9/11	1540
Relinquished by: (Signature)	Received by: (Signature)	2/9/11	1608
Relinquished by: (Signature)	Received by: (Signature)	2/10/11	915

Revised: 01/11/2011

February 21, 2011

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
TEL: (702) 307-2659
FAX: (702) 307-2691

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116266

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on February 10, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

CLIENT: Advanced Technology Laboratory-Las Vega
Project:
Lab Order: 116266

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Advanced Technology Laboratory-Las Vega	**Client Sample ID:**	N005335-001A / VINF-02-08
Lab Order:	116266	**Collection Date:**	2/8/2011 12:20:00 PM
Project:		**Matrix:**	AIR
Lab ID:	116266-001A		

VOCS IN AIR BY GCMS

EPA TO15

RunID: **MS14_110210C** QC Batch: **W11A012** PrepDate: Analyst: **DMP**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	0.30	2.5		ppbv	10	2/10/2011 06:53 PM
1,1,2,2-Tetrachloroethane	ND	0.39	2.5		ppbv	10	2/10/2011 06:53 PM
1,1,2-Trichloroethane	ND	0.28	2.5		ppbv	10	2/10/2011 06:53 PM
1,1-Dichloroethane	ND	0.25	2.5		ppbv	10	2/10/2011 06:53 PM
1,1-Dichloroethene	ND	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
1,2,4-Trichlorobenzene	ND	0.35	2.5		ppbv	10	2/10/2011 06:53 PM
1,2,4-Trimethylbenzene	520	26	150		ppbv	600	2/11/2011 07:42 AM
1,2-Dibromoethane	ND	0.18	2.5		ppbv	10	2/10/2011 06:53 PM
1,2-Dichlorobenzene	ND	0.50	2.5		ppbv	10	2/10/2011 06:53 PM
1,2-Dichloroethane	ND	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
1,2-Dichloropropane	ND	0.31	2.5		ppbv	10	2/10/2011 06:53 PM
1,3,5-Trimethylbenzene	130	0.44	2.5		ppbv	10	2/10/2011 06:53 PM
1,3-Dichlorobenzene	ND	0.43	2.5		ppbv	10	2/10/2011 06:53 PM
1,4-Dichlorobenzene	ND	0.42	2.5		ppbv	10	2/10/2011 06:53 PM
2-Butanone	19	0.31	2.5		ppbv	10	2/10/2011 06:53 PM
2-Hexanone	ND	0.25	2.5		ppbv	10	2/10/2011 06:53 PM
4-Ethyl Toluene	96	0.48	2.5		ppbv	10	2/10/2011 06:53 PM
4-Methyl-2-pentanone	ND	0.38	2.5		ppbv	10	2/10/2011 06:53 PM
Acetone	ND	0.51	2.5		ppbv	10	2/10/2011 06:53 PM
Benzene	3000	7.2	150		ppbv	600	2/11/2011 07:42 AM
Benzyl chloride	49	0.36	2.5		ppbv	10	2/10/2011 06:53 PM
Bromodichloromethane	ND	0.12	2.5		ppbv	10	2/10/2011 06:53 PM
Bromoform	ND	0.38	2.5		ppbv	10	2/10/2011 06:53 PM
Bromomethane	ND	0.17	2.5		ppbv	10	2/10/2011 06:53 PM
Carbon disulfide	ND	1.1	2.5		ppbv	10	2/10/2011 06:53 PM
Carbon tetrachloride	ND	0.12	2.5		ppbv	10	2/10/2011 06:53 PM
Chlorobenzene	ND	0.25	2.5		ppbv	10	2/10/2011 06:53 PM
Chloroethane	ND	0.40	2.5		ppbv	10	2/10/2011 06:53 PM
Chloroform	ND	0.18	2.5		ppbv	10	2/10/2011 06:53 PM
Chloromethane	ND	0.22	2.5		ppbv	10	2/10/2011 06:53 PM
cis-1,2-Dichloroethene	ND	0.34	2.5		ppbv	10	2/10/2011 06:53 PM
cis-1,3-Dichloropropene	ND	0.25	2.5		ppbv	10	2/10/2011 06:53 PM
Dibromochloromethane	ND	0.24	2.5		ppbv	10	2/10/2011 06:53 PM
Dichlorodifluoromethane	ND	0.22	2.5		ppbv	10	2/10/2011 06:53 PM
Dichlorotetrafluoroethane	ND	0.17	2.5		ppbv	10	2/10/2011 06:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	Advanced Technology Laboratory-Las Vega	**Client Sample ID:**	N005335-001A / VINF-02-08
Lab Order:	116266	**Collection Date:**	2/8/2011 12:20:00 PM
Project:		**Matrix:**	AIR
Lab ID:	116266-001A		

VOCS IN AIR BY GCMS

EPA TO15

RunID: **MS14_110210C** QC Batch: **W11A012** PrepDate: Analyst: **DMP**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Ethylbenzene	1700	21	150		ppbv	600	2/11/2011 07:42 AM
Freon-113	ND	0.12	2.5		ppbv	10	2/10/2011 06:53 PM
Hexachlorobutadiene	ND	0.43	2.5		ppbv	10	2/10/2011 06:53 PM
m,p-Xylene	5600	21	150		ppbv	600	2/11/2011 07:42 AM
MTBE	110	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
Methylene chloride	ND	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
o-Xylene	1800	15	150		ppbv	600	2/11/2011 07:42 AM
Styrene	ND	0.36	2.5		ppbv	10	2/10/2011 06:53 PM
Tetrachloroethene	ND	0.25	2.5		ppbv	10	2/10/2011 06:53 PM
Toluene	11000	9.0	150		ppbv	600	2/11/2011 07:42 AM
trans-1,2-Dichloroethene	ND	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
trans-1,3-Dichloropropene	ND	0.24	2.5		ppbv	10	2/10/2011 06:53 PM
Trichloroethene	ND	0.31	2.5		ppbv	10	2/10/2011 06:53 PM
Trichlorofluoromethane	ND	0.15	2.5		ppbv	10	2/10/2011 06:53 PM
Vinyl acetate	ND	0.63	2.5		ppbv	10	2/10/2011 06:53 PM
Vinyl chloride	ND	0.17	2.5		ppbv	10	2/10/2011 06:53 PM
Surr: 4-Bromofluorobenzene	110	0	70-130		%REC	600	2/11/2011 07:42 AM
Surr: 4-Bromofluorobenzene	112	0	70-130		%REC	10	2/10/2011 06:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT:	Advanced Technology Laboratory-Las Vega	**Client Sample ID:**	N005335-001B / VINF-02-08
Lab Order:	116266	**Collection Date:**	2/8/2011 12:20:00 PM
Project:		**Matrix:**	AIR
Lab ID:	116266-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-MS							
			EPA TO3				
RunID: **MS14_110210C**	QC Batch: **W11A012**				PrepDate:		Analyst: **DMP**
Gasoline	210	2.2	6.0		ppmv	300	2/10/2011 08:04 PM
Surr: 4-Bromofluorobenzene	82.0	0	70-130		%REC	300	2/10/2011 08:04 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 116266
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **LCS-WA11012** SampType: **LCS** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **130083**
Client ID: **ZZZZZZ** Batch ID: **W11A012** TestNo: **EPA TO15** Analysis Date: **2/10/2011** SeqNo: **2113900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.920	0.25	2.000	0	96.0	70	130				
Benzene	2.390	0.25	2.000	0	120	70	130				
Chloroform	1.790	0.25	2.000	0	89.5	70	130				
m,p-Xylene	4.050	0.25	4.000	0	101	70	130				
o-Xylene	2.090	0.25	2.000	0	104	70	130				
Tetrachloroethene	1.650	0.25	2.000	0	82.5	70	130				
Toluene	2.180	0.25	2.000	0	109	70	130				
Trichloroethene	1.780	0.25	2.000	0	89.0	70	130				
Vinyl chloride	1.890	0.25	2.000	0	94.5	70	130				
Surr: 4-Bromofluorobenzene	2.860		2.500		114	70	130				

Sample ID: **LCSD-WA11012** SampType: **LCS** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **130083**
Client ID: **ZZZZZZ** Batch ID: **W11A012** TestNo: **EPA TO15** Analysis Date: **2/10/2011** SeqNo: **2113901**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.930	0.25	2.000	0	96.5	70	130	1.920	0.519	0	
Benzene	2.380	0.25	2.000	0	119	70	130	2.390	0.419	0	
Chloroform	1.800	0.25	2.000	0	90.0	70	130	1.790	0.557	0	
m,p-Xylene	4.000	0.25	4.000	0	100	70	130	4.050	1.24	0	
o-Xylene	2.070	0.25	2.000	0	104	70	130	2.090	0.962	0	
Tetrachloroethene	1.620	0.25	2.000	0	81.0	70	130	1.650	1.83	0	
Toluene	2.190	0.25	2.000	0	110	70	130	2.180	0.458	0	
Trichloroethene	1.790	0.25	2.000	0	89.5	70	130	1.780	0.560	0	
Vinyl chloride	1.880	0.25	2.000	0	94.0	70	130	1.890	0.531	0	
Surr: 4-Bromofluorobenzene	2.820		2.500		113	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 116266
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **MB-WA11012** SampType: **MBLK** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **130083**
Client ID: **ZZZZZZ** Batch ID: **W11A012** TestNo: **EPA TO15** Analysis Date: **2/10/2011** SeqNo: **2113902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	0.25									
1,1,2-Trichloroethane	ND	0.25									
1,1-Dichloroethane	ND	0.25									
1,1-Dichloroethene	ND	0.25									
1,2,4-Trichlorobenzene	ND	0.25									
1,2,4-Trimethylbenzene	ND	0.25									
1,2-Dibromoethane	ND	0.25									
1,2-Dichlorobenzene	ND	0.25									
1,2-Dichloroethane	ND	0.25									
1,2-Dichloropropane	ND	0.25									
1,3,5-Trimethylbenzene	ND	0.25									
1,3-Dichlorobenzene	ND	0.25									
1,4-Dichlorobenzene	ND	0.25									
2-Butanone	ND	0.25									
2-Hexanone	ND	0.25									
4-Ethyl Toluene	ND	0.25									
4-Methyl-2-pentanone	ND	0.25									
Acetone	ND	0.25									
Benzene	ND	0.25									
Benzyl chloride	ND	0.25									
Bromodichloromethane	ND	0.25									
Bromoform	ND	0.25									
Bromomethane	ND	0.25									
Carbon disulfide	ND	0.25									
Carbon tetrachloride	ND	0.25									
Chlorobenzene	ND	0.25									
Chloroethane	ND	0.25									
Chloroform	ND	0.25									
Chloromethane	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 116266
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **MB-WA11012** SampType: **MBLK** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **130083**
Client ID: **ZZZZZZ** Batch ID: **W11A012** TestNo: **EPA TO15** Analysis Date: **2/10/2011** SeqNo: **2113902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	ND	0.25									
cis-1,3-Dichloropropene	ND	0.25									
Dibromochloromethane	ND	0.25									
Dichlorodifluoromethane	ND	0.25									
Dichlorotetrafluoroethane	ND	0.25									
Ethylbenzene	ND	0.25									
Freon-113	ND	0.25									
Hexachlorobutadiene	ND	0.25									
m,p-Xylene	ND	0.25									
MTBE	ND	0.25									
Methylene chloride	ND	0.25									
o-Xylene	ND	0.25									
Styrene	ND	0.25									
Tetrachloroethene	ND	0.25									
Toluene	ND	0.25									
trans-1,2-Dichloroethene	ND	0.25									
trans-1,3-Dichloropropene	ND	0.25									
Trichloroethene	ND	0.25									
Trichlorofluoromethane	ND	0.25									
Vinyl acetate	ND	0.25									
Vinyl chloride	ND	0.25									
Surr: 4-Bromofluorobenzene	2.750		2.500		110	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 116266
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

Sample ID: **LCS-WA11012**	SampType: **LCS**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **130083**
Client ID: **ZZZZZZ**	Batch ID: **W11A012**	TestNo: **EPA TO3**		Analysis Date: **2/10/2011**	SeqNo: **2113905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.242	0.020	0.2000	0.01363	114	70	130				
Surr: 4-Bromofluorobenzene	0.003		0.002500		109	70	130				

Sample ID: **MB-WA11012**	SampType: **MBLK**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **130083**
Client ID: **ZZZZZZ**	Batch ID: **W11A012**	TestNo: **EPA TO3**		Analysis Date: **2/10/2011**	SeqNo: **2113906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.014	0.020									J
Surr: 4-Bromofluorobenzene	0.003		0.002500		130	70	130				

Sample ID: **LCSD-WA11012**	SampType: **LCSD**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **130083**
Client ID: **ZZZZZZ**	Batch ID: **W11A012**	TestNo: **EPA TO3**		Analysis Date: **2/10/2011**	SeqNo: **2113908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.242	0.020	0.2000	0.01363	114	70	130	0.2419	0.0910	20	
Surr: 4-Bromofluorobenzene	0.003		0.002500		109	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Carmen Aguila

From: Marlon Cartin [marlon@atl-labs.com]
Sent: Wednesday, February 09, 2011 3:12 PM
To: Carmen Aguila
Cc: ronnie@atlglobal.com; Rachelle Arada
Subject: RE: ATL-LV Tedlar Bag Sample

Hi Carmen!

For the samples that you got from Norwalk this afternoon, TO3 and TO15 will be subcontracted to you. The ASTM 1946 is for Air Tech Labs and please ship overnight the rest of the samples to us.

Thanks,

Marlon

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marion Cartin [marion@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 02-08-11

PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-02-08-	Inf. Vapor (from header)	02-08-11	1220	Air	4	X	X	X	Monthly sample

Relinquished by: (Signature)	Received by: (Signature)	Date: 2/9/11	Time: 1540
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/9/11	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 01/11/2011

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler:

09-Feb-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA TO15	EPA TO3	
N005335-001A / VINF-02-08	Air	2/8/2011 12:20:00 PM		1		
N005335-001B / VINF-02-08	Air	2/8/2011 12:20:00 PM			1	

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO# N005335. Please fax results by : Normal TAT
Please analyze for TO3 and TO15

		Date/Time			Date/Time
Relinquished by:	NS	2/9/11	**Received by:**		2/10/11 0930
Relinquished by:			**Received by:**		

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: _____
Logged By: _____ Date: _____

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY

Method of Transport
☐ Client ☐ ATL
☐ FedEx ☐ OnTrac
☐ GSO
☐ Other: _____

Sample Condition Upon Receipt

1. CHILLED	Y ☐ N ☐	4. SEALED	Y ☐ N ☐
2. HEADSPACE (VOA)	Y ☐ N ☐	5. # OF SPLS MATCH COC	Y ☐ N ☐
3. CONTAINER INTACT	Y ☐ N ☐	6. PRESERVED	Y ☐ N ☐

Client: Advanced Technology Laboratory
Attention:
Address: 3151 W Post Rd.
City: Las Vegas State: NV Zip Code: 89118
Tel: (702) 307-2659
Fax:
Project Name: CH2M Hill -Norwalk
Project #:
Sampler: (Signature)

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Print Name Date
Signature

Send Report To:
Attn:
Co:
Addr:
City: State: Zip:

Bill To:
Attn:
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
10 min Shipping Time

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode_____
OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	field services	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	REMARKS
		-	2/9/2011									x												

- TAT starts 8AM the following day if samples received after 5 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

AirTECHNOLOGY
Laboratories, Inc.

February 21, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118

LABORATORY TEST RESULTS

Project Reference: N005335
Lab Number: C021002-01

Enclosed are results for sample(s) received 2/10/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

C021002-01

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL Air Labs
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler:

09-Feb-11

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ASTM D1946		
-01	N005335-001C / VINF-02-08	Air	2/8/2011 12:20:00 PM		1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO# N005335. Please fax result by: Normal TAT
Please analyze for ASTM-1946

		Date/Time			Date/Time
Relinquished by:	MS	2/9/11	**Received by:**	Joann DeCaOssa	2/10/11 via email
Relinquished by:			**Received by:**		

Client: ATL
Attn: Marlon Cartin
Project Name: NA
Project No.: N005335
Date Received: 02/10/11
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	C021002-01							
Client Sample I.D.:	N005335-001C/ VINF-02-08							
Date Sampled:	02/08/11							
Date Analyzed:	02/11/11							
QC Batch No.:	110211GC8A1							
Analyst Initials:	ZK							
Dilution Factor:	1.0							
ANALYTE	**Result % v/v**	**RL % v/v**						
Carbon Dioxide	0.24	0.010						
Oxygen/Argon	21	0.50						
Nitrogen	74	1.0						
Methane	0.026	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2-21-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 110211GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		02/11/11		02/11/11		02/11/11			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		11feb008		11feb006		11feb007			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	91	70-130%	89	70-130%	1.9	<30
Nitrogen	1.0	1.0	ND	92	70-130%	91	70-130%	1.0	<30
Methane	0.0010	0.0010	ND	106	70-130%	106	70-130%	0.5	<30
Carbon Dioxide	0.010	0.010	ND	98	70-130%	97	70-130%	0.5	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 2-21-11
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

April 05, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005544

RE: SFPP-Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on March 26, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Analytical Comments for EPA 8260B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes on QC samples N005512-001EMS and N005512-001EMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Acetone, Acrolein, Acrylonitrile and Styrene ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8015B_DRO:

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) were not performed due to limited sample. LCS/LCSD was used instead to measure precision.

Advanced Technology Laboratories, Inc. *3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

Advanced Technology Laboratories, Inc.

Date: *05-Apr-11*

CLIENT: CH2M HILL
Project: SFPP-Norwalk Site
Lab Order: N005544
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005544-001A	INF-03-25	Wastewater	3/25/2011 1:24:00 PM	3/26/2011	
N005544-001B	INF-03-25	Wastewater	3/25/2011 1:24:00 PM	3/26/2011	
N005544-001C	INF-03-25	Wastewater	3/25/2011 1:24:00 PM	3/26/2011	

Advanced Technology Laboratories, Inc.
3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT:	CH2M HILL	**Client Sample ID:**	INF-03-25
Lab Order:	N005544	**Collection Date:**	3/25/2011 1:24:00 PM
Project:	SFPP-Norwalk Site	**Matrix:**	WASTEWATER
Lab ID:	N005544-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TPH-FUEL PRODUCT BY GC/FID							
	EPA 3510C				**EPA 8015B**		
RunID: **GC3_110331A**	QC Batch: **36536**				PrepDate: **3/28/2011**		Analyst: **MDM**
TPH-Fuel Product	1200	13	50		ug/L	1	3/31/2011 02:53 PM
Surr: Octacosane	138	0	26-152		%REC	1	3/31/2011 02:53 PM
Surr: p-Terphenyl	64.8	0	57-132		%REC	1	3/31/2011 02:53 PM
GASOLINE RANGE ORGANICS BY GC/FID							
					EPA 8015B		
RunID: **GC4_110328B**	QC Batch: **E11VW013**				PrepDate:		Analyst: **QBM**
TPH-Gasoline	3100	6.0	100		µg/L	1	3/28/2011
Surr: Chlorobenzene - d5	103	0	74-138		%REC	1	3/28/2011
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					EPA 8260B		
RunID: **MS1_110328A**	QC Batch: **D11VW041**				PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		ug/L	1	3/28/2011 04:48 PM
1,1,1-Trichloroethane	ND	0.068	1.0		ug/L	1	3/28/2011 04:48 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		ug/L	1	3/28/2011 04:48 PM
1,1,2-Trichloroethane	ND	0.083	1.0		ug/L	1	3/28/2011 04:48 PM
1,1-Dichloroethane	ND	0.099	1.0		ug/L	1	3/28/2011 04:48 PM
1,1-Dichloroethene	ND	0.094	1.0		ug/L	1	3/28/2011 04:48 PM
1,1-Dichloropropene	ND	0.082	1.0		ug/L	1	3/28/2011 04:48 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		ug/L	1	3/28/2011 04:48 PM
1,2,3-Trichloropropane	ND	0.12	1.0		ug/L	1	3/28/2011 04:48 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		ug/L	1	3/28/2011 04:48 PM
1,2,4-Trimethylbenzene	40	0.095	1.0		ug/L	1	3/28/2011 04:48 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		ug/L	1	3/28/2011 04:48 PM
1,2-Dibromoethane	ND	0.14	1.0		ug/L	1	3/28/2011 04:48 PM
1,2-Dichlorobenzene	ND	0.070	1.0		ug/L	1	3/28/2011 04:48 PM
1,2-Dichloroethane	ND	0.17	1.0		ug/L	1	3/28/2011 04:48 PM
1,2-Dichloropropane	ND	0.085	1.0		ug/L	1	3/28/2011 04:48 PM
1,3,5-Trimethylbenzene	11	0.087	1.0		ug/L	1	3/28/2011 04:48 PM
1,3-Dichlorobenzene	ND	0.090	1.0		ug/L	1	3/28/2011 04:48 PM
1,3-Dichloropropane	ND	0.074	1.0		ug/L	1	3/28/2011 04:48 PM
1,4-Dichlorobenzene	ND	0.092	1.0		ug/L	1	3/28/2011 04:48 PM
2,2-Dichloropropane	ND	0.061	1.0		ug/L	1	3/28/2011 04:48 PM
2-Butanone	ND	1.0	10		ug/L	1	3/28/2011 04:48 PM
2-Chlorotoluene	ND	0.080	1.0		ug/L	1	3/28/2011 04:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: CH2M HILL
Lab Order: N005544
Project: SFPP-Norwalk Site
Lab ID: N005544-001

Client Sample ID: INF-03-25
Collection Date: 3/25/2011 1:24:00 PM
Matrix: WASTEWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS1_110328A** QC Batch: **D11VW041** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	0.10	1.0		ug/L	1	3/28/2011 04:48 PM
4-Isopropyltoluene	ND	0.080	1.0		ug/L	1	3/28/2011 04:48 PM
4-Methyl-2-pentanone	ND	0.76	10		ug/L	1	3/28/2011 04:48 PM
Acetone	ND	1.6	10		ug/L	1	3/28/2011 04:48 PM
Acrolein	ND	4.3	20		ug/L	1	3/28/2011 04:48 PM
Acrylonitrile	ND	0.61	20		ug/L	1	3/28/2011 04:48 PM
Benzene	1300	0.75	10		ug/L	10	3/28/2011 04:02 PM
Bromobenzene	ND	0.082	1.0		ug/L	1	3/28/2011 04:48 PM
Bromochloromethane	ND	0.15	1.0		ug/L	1	3/28/2011 04:48 PM
Bromodichloromethane	ND	0.063	1.0		ug/L	1	3/28/2011 04:48 PM
Bromoform	ND	0.086	1.0		ug/L	1	3/28/2011 04:48 PM
Bromomethane	ND	0.13	1.0		ug/L	1	3/28/2011 04:48 PM
Carbon disulfide	ND	0.054	1.0		ug/L	1	3/28/2011 04:48 PM
Carbon tetrachloride	ND	0.10	1.0		ug/L	1	3/28/2011 04:48 PM
Chlorobenzene	ND	0.092	1.0		ug/L	1	3/28/2011 04:48 PM
Chloroethane	ND	0.14	1.0		ug/L	1	3/28/2011 04:48 PM
Chloroform	ND	0.058	1.0		ug/L	1	3/28/2011 04:48 PM
Chloromethane	ND	0.054	1.0		ug/L	1	3/28/2011 04:48 PM
cis-1,2-Dichloroethene	ND	0.11	1.0		ug/L	1	3/28/2011 04:48 PM
cis-1,3-Dichloropropene	ND	0.10	1.0		ug/L	1	3/28/2011 04:48 PM
Dibromochloromethane	ND	0.061	1.0		ug/L	1	3/28/2011 04:48 PM
Dibromomethane	ND	0.15	1.0		ug/L	1	3/28/2011 04:48 PM
Dichlorodifluoromethane	ND	0.12	1.0		ug/L	1	3/28/2011 04:48 PM
Ethylbenzene	51	0.051	1.0		ug/L	1	3/28/2011 04:48 PM
Freon-113	ND	0.080	1.0		ug/L	1	3/28/2011 04:48 PM
Hexachlorobutadiene	ND	0.17	1.0		ug/L	1	3/28/2011 04:48 PM
Isopropylbenzene	5.4	0.057	1.0		ug/L	1	3/28/2011 04:48 PM
m,p-Xylene	150	0.17	1.0		ug/L	1	3/28/2011 04:48 PM
Methylene chloride	ND	0.10	5.0		ug/L	1	3/28/2011 04:48 PM
MTBE	300	0.89	10		ug/L	10	3/28/2011 04:02 PM
n-Butylbenzene	ND	0.082	1.0		ug/L	1	3/28/2011 04:48 PM
n-Propylbenzene	11	0.087	1.0		ug/L	1	3/28/2011 04:48 PM
Naphthalene	36	0.056	1.0		ug/L	1	3/28/2011 04:48 PM
o-Xylene	41	0.077	1.0		ug/L	1	3/28/2011 04:48 PM
sec-Butylbenzene	ND	0.098	1.0		ug/L	1	3/28/2011 04:48 PM
Styrene	ND	0.072	1.0		ug/L	1	3/28/2011 04:48 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N005544
Project: SFPP-Norwalk Site
Lab ID: N005544-001

Client Sample ID: INF-03-25
Collection Date: 3/25/2011 1:24:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS1_110328A**	QC Batch: **D11VW041**				PrepDate:		Analyst: **QBM**
tert-Butylbenzene	ND	0.062	1.0		ug/L	1	3/28/2011 04:48 PM
Tetrachloroethene	ND	0.13	1.0		ug/L	1	3/28/2011 04:48 PM
Toluene	92	0.12	2.5		ug/L	1	3/28/2011 04:48 PM
trans-1,2-Dichloroethene	ND	0.094	1.0		ug/L	1	3/28/2011 04:48 PM
trans-1,3-Dichloropropene	ND	0.10	1.0		ug/L	1	3/28/2011 04:48 PM
Trichloroethene	ND	0.060	1.0		ug/L	1	3/28/2011 04:48 PM
Trichlorofluoromethane	ND	0.097	1.0		ug/L	1	3/28/2011 04:48 PM
Vinyl chloride	ND	0.12	1.0		ug/L	1	3/28/2011 04:48 PM
Xylenes, Total	200	1.5	2.0		ug/L	1	3/28/2011 04:48 PM
Surr: 1,2-Dichloroethane-d4	95.4	0	72-119		%REC	1	3/28/2011 04:48 PM
Surr: 1,2-Dichloroethane-d4	88.9	0	72-119		%REC	10	3/28/2011 04:02 PM
Surr: 4-Bromofluorobenzene	108	0	76-119		%REC	1	3/28/2011 04:48 PM
Surr: 4-Bromofluorobenzene	107	0	76-119		%REC	10	3/28/2011 04:02 PM
Surr: Dibromofluoromethane	97.1	0	85-115		%REC	1	3/28/2011 04:48 PM
Surr: Dibromofluoromethane	94.6	0	85-115		%REC	10	3/28/2011 04:02 PM
Surr: Toluene-d8	108	0	81-120		%REC	10	3/28/2011 04:02 PM
Surr: Toluene-d8	107	0	81-120		%REC	1	3/28/2011 04:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **LCS-36536_DRO**	SampType: **LCS**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **3/28/2011**	RunNo: **79554**
Client ID: **LCSW**	Batch ID: **36536**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **3/31/2011**	SeqNo: **1253798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	769.520	50	1000	0	77.0	61	143				
Surr: Octacosane	50.309		80.00		62.9	26	152				
Surr: p-Terphenyl	57.221		80.00		71.5	57	132				

Sample ID: **LCSD-36536_DRO**	SampType: **LCSD**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **3/28/2011**	RunNo: **79554**
Client ID: **LCSS02**	Batch ID: **36536**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **3/31/2011**	SeqNo: **1253799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	762.743	50	1000	0	76.3	61	143	769.5	0.885	30	
Surr: Octacosane	60.359		80.00		75.4	26	152		0		
Surr: p-Terphenyl	61.845		80.00		77.3	57	132		0		

Sample ID: **MB-36536**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **3/28/2011**	RunNo: **79554**
Client ID: **PBW**	Batch ID: **36536**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **3/31/2011**	SeqNo: **1253800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	30.410	50									
Surr: Octacosane	87.046		80.00		109	26	152				
Surr: p-Terphenyl	58.625		80.00		73.3	57	132				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E110328LCS**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79543**
Client ID: **LCSW**	Batch ID: **E11VW013**	TestNo: **EPA 8015B**		Analysis Date: **3/28/2011**	SeqNo: **1253510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	866.000	100	1000	0	86.6	67	136				
Surr: Chlorobenzene - d5	49.193		50.00		98.4	74	138				

Sample ID: **E110328MB1**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79543**
Client ID: **PBW**	Batch ID: **E11VW013**	TestNo: **EPA 8015B**		Analysis Date: **3/28/2011**	SeqNo: **1253511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100									
Surr: Chlorobenzene - d5	57.127		50.00		114	74	138				

Sample ID: **N005541-002BMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79543**
Client ID: **ZZZZZZ**	Batch ID: **E11VW013**	TestNo: **EPA 8015B**		Analysis Date: **3/28/2011**	SeqNo: **1253513**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	857.000	100	1000	0	85.7	67	136				
Surr: Chlorobenzene - d5	48.638		50.00		97.3	74	138				

Sample ID: **N005541-002BMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **79543**
Client ID: **ZZZZZZ**	Batch ID: **E11VW013**	TestNo: **EPA 8015B**		Analysis Date: **3/28/2011**	SeqNo: **1253514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	906.000	100	1000	0	90.6	67	136	857.0	5.56	30	
Surr: Chlorobenzene - d5	51.799		50.00		104	74	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110328LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **LCSW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.470	1.0	25.00	0	102	81	129				
1,1,1-Trichloroethane	19.570	1.0	25.00	0	78.3	67	132				
1,1,2,2-Tetrachloroethane	23.740	1.0	25.00	0	95.0	63	128				
1,1,2-Trichloroethane	23.550	1.0	25.00	0	94.2	75	125				
1,1-Dichloroethane	23.800	1.0	25.00	0	95.2	69	133				
1,1-Dichloroethene	23.890	1.0	25.00	0	95.6	68	130				
1,1-Dichloropropene	21.940	1.0	25.00	0	87.8	73	132				
1,2,3-Trichlorobenzene	26.460	1.0	25.00	0	106	67	137				
1,2,3-Trichloropropane	23.640	1.0	25.00	0	94.6	73	124				
1,2,4-Trichlorobenzene	27.050	1.0	25.00	0	108	66	134				
1,2,4-Trimethylbenzene	25.590	1.0	25.00	0	102	74	132				
1,2-Dibromo-3-chloropropane	25.750	2.0	25.00	0	103	50	132				
1,2-Dibromoethane	24.690	1.0	25.00	0	98.8	80	121				
1,2-Dichlorobenzene	24.840	1.0	25.00	0	99.4	71	122				
1,2-Dichloroethane	24.740	1.0	25.00	0	99.0	69	132				
1,2-Dichloropropane	21.990	1.0	25.00	0	88.0	75	125				
1,3,5-Trimethylbenzene	25.110	1.0	25.00	0	100	74	131				
1,3-Dichlorobenzene	24.930	1.0	25.00	0	99.7	75	124				
1,3-Dichloropropane	22.500	1.0	25.00	0	90.0	73	126				
1,4-Dichlorobenzene	24.790	1.0	25.00	0	99.2	74	123				
2,2-Dichloropropane	20.550	1.0	25.00	0	82.2	69	137				
2-Butanone	237.600	10	250.0	0	95.0	49	136				
2-Hexanone	267.430	5.0	250.0	0	107	70	130				
4-Isopropyltoluene	25.010	1.0	25.00	0	100	73	130				
4-Methyl-2-pentanone	257.440	10	250.0	0	103	58	134				
Acetone	258.170	10	250.0	0	103	40	135				
Acrolein	214.710	20	250.0	0	85.9	75	125				
Acrylonitrile	219.630	20	250.0	0	87.9	75	125				
Benzene	23.580	1.0	25.00	0	94.3	81	122				
Bromobenzene	24.370	1.0	25.00	0	97.5	76	124				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110328LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **LCSW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	24.250	1.0	25.00	0	97.0	65	129				
Bromodichloromethane	21.420	1.0	25.00	0	85.7	76	121				
Bromoform	22.360	1.0	25.00	0	89.4	69	128				
Bromomethane	28.080	1.0	25.00	0	112	53	141				
Carbon disulfide	22.600	1.0	25.00	0	90.4	75	125				
Carbon tetrachloride	20.050	1.0	25.00	0	80.2	66	138				
Chlorobenzene	24.480	1.0	25.00	0	97.9	81	122				
Chloroethane	21.930	1.0	25.00	0	87.7	58	133				
Chloroform	24.500	1.0	25.00	0	98.0	69	128				
Chloromethane	24.820	1.0	25.00	0	99.3	56	131				
cis-1,2-Dichloroethene	24.660	1.0	25.00	0	98.6	72	126				
cis-1,3-Dichloropropene	23.280	1.0	25.00	0	93.1	69	131				
Cyclohexanone	25.220	5.0	25.00	0	101	70	130				
Di-isopropyl ether	22.690	1.0	25.00	0	90.8	70	130				
Dibromomethane	25.520	1.0	25.00	0	102	76	125				
Dichlorodifluoromethane	24.200	1.0	25.00	0	96.8	53	153				
Freon-113	21.590	1.0	25.00	0	86.4	75	125				
Hexachlorobutadiene	26.080	1.0	25.00	0	104	67	131				
Isopropylbenzene	24.250	1.0	25.00	0	97.0	75	127				
Methylene chloride	22.640	5.0	25.00	0	90.6	63	137				
MTBE	21.310	1.0	25.00	0	85.2	65	123				
n-Butylbenzene	25.700	1.0	25.00	0	103	69	137				
n-Propylbenzene	24.520	1.0	25.00	0	98.1	72	129				
Naphthalene	25.720	1.0	25.00	0	103	54	138				
o-Xylene	24.790	1.0	25.00	0	99.2	80	121				
sec-Butylbenzene	24.460	1.0	25.00	0	97.8	72	127				
Styrene	25.600	1.0	25.00	0	102	65	134				
Tert-amyl methyl ether	23.740	1.0	25.00	0	95.0	70	130				
Tert-Butanol	96.280	5.0	125.0	0	77.0	70	130				
Toluene	24.700	2.5	25.00	0	98.8	77	122				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110328LCS** SampType: **LCS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **LCSW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	24.560	1.0	25.00	0	98.2	63	137				
trans-1,3-Dichloropropene	23.950	1.0	25.00	0	95.8	59	135				
Trichloroethene	23.020	1.0	25.00	0	92.1	70	127				
Trichlorofluoromethane	23.550	1.0	25.00	0	94.2	57	129				
Vinyl acetate	239.020	5.0	250.0	0	95.6	70	130				
Vinyl chloride	22.690	1.0	25.00	0	90.8	50	134				
IS: 1,4-Difluorobenzene	25.000	0	25.00	0	100	70	130				
IS: 1,4-Dichlorobenzene-d4	25.000	0	25.00	0	100	70	130				
Surr: Dibromofluoromethane	25.290		25.00		101	85	115				
Surr: Toluene-d8	25.500		25.00		102	81	120				

Sample ID: **N005512-001EMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.750	1.0	25.00	0	103	81	129				
1,1,1-Trichloroethane	20.170	1.0	25.00	0	80.7	67	132				
1,1,2,2-Tetrachloroethane	20.280	1.0	25.00	0	81.1	63	128				
1,1,2-Trichloroethane	21.320	1.0	25.00	0	85.3	75	125				
1,1-Dichloroethane	23.690	1.0	25.00	0	94.8	69	133				
1,1-Dichloroethene	25.100	1.0	25.00	0	100	68	130				
1,1-Dichloropropene	23.220	1.0	25.00	0	92.9	73	132				
1,2,3-Trichlorobenzene	25.780	1.0	25.00	0	103	67	137				
1,2,3-Trichloropropane	19.980	1.0	25.00	0	79.9	73	124				
1,2,4-Trichlorobenzene	27.390	1.0	25.00	0	110	66	134				
1,2,4-Trimethylbenzene	25.590	1.0	25.00	0	102	74	132				
1,2-Dibromo-3-chloropropane	20.770	2.0	25.00	0	83.1	50	132				
1,2-Dibromoethane	21.080	1.0	25.00	0	84.3	80	121				
1,2-Dichlorobenzene	24.800	1.0	25.00	0	99.2	71	122				
1,2-Dichloroethane	21.990	1.0	25.00	0	88.0	69	132				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005512-001EMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	22.130	1.0	25.00	0	88.5	75	125				
1,3,5-Trimethylbenzene	25.800	1.0	25.00	0	103	74	131				
1,3-Dichlorobenzene	26.050	1.0	25.00	0	104	75	124				
1,3-Dichloropropane	21.280	1.0	25.00	0	85.1	73	126				
1,4-Dichlorobenzene	25.510	1.0	25.00	0	102	74	123				
2,2-Dichloropropane	20.280	1.0	25.00	0	81.1	69	137				
2-Butanone	100.320	10	250.0	0	40.1	49	136				S
2-Chlorotoluene	26.910	1.0	25.00	0	108	73	126				
4-Chlorotoluene	25.980	1.0	25.00	0	104	74	128				
4-Isopropyltoluene	27.110	1.0	25.00	0	108	73	130				
4-Methyl-2-pentanone	188.800	10	250.0	0	75.5	58	134				
Acetone	72.390	10	250.0	0	29.0	40	135				S
Acrolein	207.430	20	250.0	0	83.0	75	125				
Acrylonitrile	207.420	20	250.0	0	83.0	75	125				
Benzene	24.270	1.0	25.00	0	97.1	81	122				
Bromobenzene	24.830	1.0	25.00	0	99.3	76	124				
Bromochloromethane	22.620	1.0	25.00	0	90.5	65	129				
Bromodichloromethane	21.010	1.0	25.00	0	84.0	76	121				
Bromoform	19.720	1.0	25.00	0	78.9	69	128				
Bromomethane	29.790	1.0	25.00	0	119	53	141				
Carbon disulfide	22.310	1.0	25.00	0	89.2	75	125				
Carbon tetrachloride	20.640	1.0	25.00	0	82.6	66	138				
Chlorobenzene	25.470	1.0	25.00	0	102	81	122				
Chloroethane	22.000	1.0	25.00	0	88.0	58	133				
Chloroform	24.360	1.0	25.00	0	97.4	69	128				
Chloromethane	25.120	1.0	25.00	0	100	56	131				
cis-1,2-Dichloroethene	24.730	1.0	25.00	0	98.9	72	126				
cis-1,3-Dichloropropene	22.880	1.0	25.00	0	91.5	69	131				
Dibromochloromethane	21.630	1.0	25.00	0	86.5	66	133				
Dibromomethane	21.450	1.0	25.00	0	85.8	76	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005512-001EMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	25.190	1.0	25.00	0	101	53	153				
Ethylbenzene	25.690	1.0	25.00	0	103	73	127				
Freon-113	21.700	1.0	25.00	0	86.8	75	125				
Hexachlorobutadiene	28.440	1.0	25.00	0	114	67	131				
Isopropylbenzene	27.640	1.0	25.00	0	111	75	127				
m,p-Xylene	53.100	1.0	50.00	0.5000	105	76	128				
Methylene chloride	21.660	5.0	25.00	0	86.6	63	137				
MTBE	20.230	1.0	25.00	0	80.9	65	123				
n-Butylbenzene	27.880	1.0	25.00	0	112	69	137				
n-Propylbenzene	26.560	1.0	25.00	0	106	72	129				
Naphthalene	21.340	1.0	25.00	0	85.4	54	138				
o-Xylene	25.260	1.0	25.00	0	101	80	121				
sec-Butylbenzene	26.640	1.0	25.00	0	107	72	127				
Styrene	22.590	1.0	25.00	0	90.4	65	134				
tert-Butylbenzene	26.100	1.0	25.00	0	104	70	129				
Tetrachloroethene	26.240	1.0	25.00	0	105	66	128				
Toluene	25.150	2.5	25.00	0.8500	97.2	77	122				
trans-1,2-Dichloroethene	24.890	1.0	25.00	0	99.6	63	137				
trans-1,3-Dichloropropene	22.180	1.0	25.00	0	88.7	59	135				
Trichloroethene	24.050	1.0	25.00	0	96.2	70	127				
Trichlorofluoromethane	24.650	1.0	25.00	0	98.6	57	129				
Vinyl chloride	23.080	1.0	25.00	0	92.3	50	134				
Xylenes, Total	78.360	2.0	75.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	21.630		25.00		86.5	72	119				
Surr: 4-Bromofluorobenzene	24.930		25.00		99.7	76	119				
Surr: Dibromofluoromethane	24.360		25.00		97.4	85	115				
Surr: Toluene-d8	25.190		25.00		101	81	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005512-001EMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.400	1.0	25.00	0	102	81	129	25.75	1.37	20	
1,1,1-Trichloroethane	19.250	1.0	25.00	0	77.0	67	132	20.17	4.67	20	
1,1,2,2-Tetrachloroethane	20.720	1.0	25.00	0	82.9	63	128	20.28	2.15	20	
1,1,2-Trichloroethane	20.970	1.0	25.00	0	83.9	75	125	21.32	1.66	20	
1,1-Dichloroethane	22.900	1.0	25.00	0	91.6	69	133	23.69	3.39	20	
1,1-Dichloroethene	24.000	1.0	25.00	0	96.0	68	130	25.10	4.48	20	
1,1-Dichloropropene	22.180	1.0	25.00	0	88.7	73	132	23.22	4.58	20	
1,2,3-Trichlorobenzene	25.230	1.0	25.00	0	101	67	137	25.78	2.16	20	
1,2,3-Trichloropropane	20.240	1.0	25.00	0	81.0	73	124	19.98	1.29	20	
1,2,4-Trichlorobenzene	26.610	1.0	25.00	0	106	66	134	27.39	2.89	20	
1,2,4-Trimethylbenzene	22.020	1.0	25.00	0	88.1	74	132	25.59	15.0	20	
1,2-Dibromo-3-chloropropane	21.760	2.0	25.00	0	87.0	50	132	20.77	4.66	20	
1,2-Dibromoethane	21.230	1.0	25.00	0	84.9	80	121	21.08	0.709	20	
1,2-Dichlorobenzene	24.090	1.0	25.00	0	96.4	71	122	24.80	2.90	20	
1,2-Dichloroethane	20.950	1.0	25.00	0	83.8	69	132	21.99	4.84	20	
1,2-Dichloropropane	20.910	1.0	25.00	0	83.6	75	125	22.13	5.67	20	
1,3,5-Trimethylbenzene	23.850	1.0	25.00	0	95.4	74	131	25.80	7.85	20	
1,3-Dichlorobenzene	25.160	1.0	25.00	0	101	75	124	26.05	3.48	20	
1,3-Dichloropropane	20.940	1.0	25.00	0	83.8	73	126	21.28	1.61	20	
1,4-Dichlorobenzene	24.930	1.0	25.00	0	99.7	74	123	25.51	2.30	20	
2,2-Dichloropropane	18.990	1.0	25.00	0	76.0	69	137	20.28	6.57	20	
2-Butanone	82.720	10	250.0	0	33.1	49	136	100.3	19.2	20	S
2-Chlorotoluene	25.540	1.0	25.00	0	102	73	126	26.91	5.22	20	
4-Chlorotoluene	24.910	1.0	25.00	0	99.6	74	128	25.98	4.21	20	
4-Isopropyltoluene	25.520	1.0	25.00	0	102	73	130	27.11	6.04	20	
4-Methyl-2-pentanone	179.870	10	250.0	0	71.9	58	134	188.8	4.84	20	
Acetone	52.520	10	250.0	0	21.0	40	135	72.39	31.8	20	SR
Acrolein	166.440	20	250.0	0	66.6	75	125	207.4	21.9	20	SR
Acrylonitrile	163.520	20	250.0	0	65.4	75	125	207.4	23.7	20	SR
Benzene	23.620	1.0	25.00	0	94.5	81	122	24.27	2.71	20	

Qualifiers:

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DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005512-001EMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	24.280	1.0	25.00	0	97.1	76	124	24.83	2.24	20	
Bromochloromethane	22.170	1.0	25.00	0	88.7	65	129	22.62	2.01	20	
Bromodichloromethane	20.170	1.0	25.00	0	80.7	76	121	21.01	4.08	20	
Bromoform	19.880	1.0	25.00	0	79.5	69	128	19.72	0.808	20	
Bromomethane	28.930	1.0	25.00	0	116	53	141	29.79	2.93	20	
Carbon disulfide	21.820	1.0	25.00	0	87.3	75	125	22.31	2.22	20	
Carbon tetrachloride	19.930	1.0	25.00	0	79.7	66	138	20.64	3.50	20	
Chlorobenzene	24.980	1.0	25.00	0	99.9	81	122	25.47	1.94	20	
Chloroethane	21.520	1.0	25.00	0	86.1	58	133	22.00	2.21	20	
Chloroform	23.140	1.0	25.00	0	92.6	69	128	24.36	5.14	20	
Chloromethane	24.920	1.0	25.00	0	99.7	56	131	25.12	0.799	20	
cis-1,2-Dichloroethene	23.510	1.0	25.00	0	94.0	72	126	24.73	5.06	20	
cis-1,3-Dichloropropene	22.180	1.0	25.00	0	88.7	69	131	22.88	3.11	20	
Dibromochloromethane	20.960	1.0	25.00	0	83.8	66	133	21.63	3.15	20	
Dibromomethane	21.480	1.0	25.00	0	85.9	76	125	21.45	0.140	20	
Dichlorodifluoromethane	24.800	1.0	25.00	0	99.2	53	153	25.19	1.56	20	
Ethylbenzene	25.350	1.0	25.00	0	101	73	127	25.69	1.33	20	
Freon-113	20.410	1.0	25.00	0	81.6	75	125	21.70	6.13	20	
Hexachlorobutadiene	26.690	1.0	25.00	0	107	67	131	28.44	6.35	20	
Isopropylbenzene	25.430	1.0	25.00	0	102	75	127	27.64	8.33	20	
m,p-Xylene	51.060	1.0	50.00	0.5000	101	76	128	53.10	3.92	20	
Methylene chloride	21.300	5.0	25.00	0	85.2	63	137	21.66	1.68	20	
MTBE	19.240	1.0	25.00	0	77.0	65	123	20.23	5.02	20	
n-Butylbenzene	26.880	1.0	25.00	0	108	69	137	27.88	3.65	20	
n-Propylbenzene	25.690	1.0	25.00	0	103	72	129	26.56	3.33	20	
Naphthalene	20.790	1.0	25.00	0	83.2	54	138	21.34	2.61	20	
o-Xylene	24.550	1.0	25.00	0	98.2	80	121	25.26	2.85	20	
sec-Butylbenzene	25.570	1.0	25.00	0	102	72	127	26.64	4.10	20	
Styrene	17.770	1.0	25.00	0	71.1	65	134	22.59	23.9	20	R
tert-Butylbenzene	25.000	1.0	25.00	0	100	70	129	26.10	4.31	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **N005512-001EMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **ZZZZZZ** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	26.100	1.0	25.00	0	104	66	128	26.24	0.535	20	
Toluene	24.820	2.5	25.00	0.8500	95.9	77	122	25.15	1.32	20	
trans-1,2-Dichloroethene	23.540	1.0	25.00	0	94.2	63	137	24.89	5.58	20	
trans-1,3-Dichloropropene	21.720	1.0	25.00	0	86.9	59	135	22.18	2.10	20	
Trichloroethene	23.310	1.0	25.00	0	93.2	70	127	24.05	3.13	20	
Trichlorofluoromethane	24.340	1.0	25.00	0	97.4	57	129	24.65	1.27	20	
Vinyl chloride	22.880	1.0	25.00	0	91.5	50	134	23.08	0.870	20	
Xylenes, Total	75.610	2.0	75.00	0	101	75	125	78.36	3.57	20	
Surr: 1,2-Dichloroethane-d4	20.820		25.00		83.3	72	119		0		
Surr: 4-Bromofluorobenzene	24.860		25.00		99.4	76	119		0		
Surr: Dibromofluoromethane	23.880		25.00		95.5	85	115		0		
Surr: Toluene-d8	25.140		25.00		101	81	120		0		

Sample ID: **D110328MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **PBW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110328MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **PBW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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CLIENT: CH2M HILL
Work Order: N005544
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LLPGE

Sample ID: **D110328MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **ug/L** Prep Date: RunNo: **79526**
Client ID: **PBW** Batch ID: **D11VW041** TestNo: **EPA 8260B** Analysis Date: **3/28/2011** SeqNo: **1253312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	5.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.5									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.090		25.00		88.4	72	119				
Surr: 4-Bromofluorobenzene	26.380		25.00		106	76	119				
Surr: Dibromofluoromethane	22.210		25.00		88.8	85	115				
Surr: Toluene-d8	27.190		25.00		109	81	120				

Qualifiers:

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Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 03-25-11
PAGE: 1 OF 1

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: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)		Comments
	INF-03-25-	Influent	03-25-11	1324	WW	7	X	X	X	N005544-1	Temperature* = 1.9°C
											ICE 1R#1
											(Temp. as sampled*)
											Monthly

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Matt Jocarro	3/25/11	1335
Matt Jocarro	[signature]	3/25/11	1400
[signature] 3/25 Ontrac	[signature]	3/26/11	0920

Revised: 01/11/11

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
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CHAIN OF CUSTODY RECORD

DATE: 03-25-11

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh
ADDRESS: 1100 Town & Country Road
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TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com

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

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

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH - g (8015M)	TPH-fp (8015M)	VOCs, Full List (8260B)	Comments
	INF- 03-25-	Influent	03-25-11	1320	WW	7	X	X	X	Temperature* = 1.9°C ICE (PM) (Temp. as sampled*) Monthly

Relinquished by: (Signature) — Received by: (Signature) — Date: 3/25/11 Time: 1335
Relinquished by: (Signature) — Received by: (Signature) — Date: 3/25/11 Time: 1400
Relinquished by: (Signature) — Received by: (Signature) — Date: 3/26/11 Time: 0920

Revised: 01/11/11

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO and/or NA signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Sample Receipt Checklist

Cooler Received/Opened On:	3/26/2011	Workorder:	N005544
Rep sample Temp (Deg C):	1.9	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	OnTrac		
Last 4 digits of Tracking No.:	8910	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No	NA
16. Were there Non-Conformance issues at login?	Yes ☐	No	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By MBC 3/26/11

Reviewed By: 3/29/11

OnTrac

800-334-5000
Call For A Pickup!

Account Number [redacted] B10241808910

Date 032511

B10241808910

FROM (Company)
ENVIRO TREATMENT & TECHNOLOGY*

Street Address
[illegible] ALMO AVE Suite

City
[illegible]

State CA Zip Code (Required) [illegible] Phone Number

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX
ATL

Street Address
2151 N POCT RD

Suite # City LAS VEGAS

State NV Zip Code (Required) 89118 Phone Number 702 707 9647

Recipient's Name
[illegible]

Shipper's Ref. #
[illegible] 32511

Service Options	Billing Information	Weight
*If no box is checked, Sunrise Service will be applied. **Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M. Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.	If none is selected, shipper will be invoiced.	
SUNRISE - BY 10:30 AM* SUNRISE GOLD - BY 8:00 AM* HEAVYWEIGHT** Saturday Delivery - Extra Charge (see Service Guide for details)	Bill Shipper's Account Bill Other Acct # [redacted]	8 oz. Letter or Weight lbs. (Subject to verification)
HOLD FOR PICKUP This shipment requires a delivery signature Declared Value $ (maximum $25,000) [redacted]	Dim weight charge if greater than actual weight L in. X W in. X H in. ÷225 = ____	
C.O.D. Amount $, Limit $10,000 (affix C.O.D. tag to package)	Secured Payment (Money Order or Certified Check) Unsecured Payment (Company Check or Personal Check)	

Driver #	Pick-up Time	Shipper's Signature
[illegible]	[illegible]	

Driver's Initials [illegible] Shipper's Name [illegible]

April 07, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N005556

RE: SFPP-Norwalk

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on March 29, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for

Jose Tenorio Jr.
Laboratory Director

This cover letter is an integral part of this analytical report.

CLIENT: CH2M HILL
Project: SFPP-Norwalk
Lab Order: N005556

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Subcontracted Analyses:

EPA TO15 and EPA TO3 were subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

ASTM D1946 was subcontracted to Air Technology Laboratories-City of Industry, CA .

Advanced Technology Laboratories, Inc. *3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

Advanced Technology Laboratories, Inc.

Date: *07-Apr-11*

CLIENT: CH2M HILL
Project: SFPP-Norwalk
Lab Order: N005556
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005556-001A	VINF-03-29	Air	3/29/2011 1:20:00 PM	3/29/2011	
N005556-001B	VINF-03-29	Air	3/29/2011 1:20:00 PM	3/29/2011	

Advanced Technology Laboratories, Inc.
3151 W. Post Road, Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 3/29/11

PAGE: 1 OF 1

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

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-03-29	Header	3/29/11	1320	Air	4	X	X	X	Monthly sample N005556

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/29/11	Time: 1323
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/29/11	Time: 1352

Revised: 01/11/2011

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California
TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #: ~9807

Field Sampler: J. DYE

29-Mar-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests EPA TO15	Requested Tests EPA TO3
N005556-001A / VINF-03-29	Air	3/29/2011 1:20:00 PM	BAG	1	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N005556 Please fax results by: Normal TAT

	Date/Time		Date/Time
Relinquished by:	3/29/11	**Received by:**	
Relinquished by:		**Received by:**	

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL Air Labs
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: J. DYE

29-Mar-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ASTM D1946
N005556-001B / VINF-03-29	Air	3/29/2011 1:20:00 PM	BAG	1

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N005556 Please fax results by: Normal TAT

for Argon/O_2, CO_2, CH_4

		Date/Time		Date/Time
Relinquished by:		3/29/11	**Received by:**	
Relinquished by:			**Received by:**	

April 05, 2011

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
TEL: (702) 307-2659
FAX: (702) 307-2691

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117104

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on March 29, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: Advanced Technology Laboratory-Las Vega
Project:
Lab Order: 117104

CASE NARRATIVE

Analytical Comments for EPA TO15

Sample 117104-001A, dilution was necessary due to high concentration of unknown compounds in the sample.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Advanced Technology Laboratory-Las Vega
Lab Order: 117104
Project:
Lab ID: 117104-001A

Client Sample ID: N005556-001A / VINF-03-29
Collection Date: 3/29/2011 1:20:00 PM
Matrix: AIR

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110330A QC Batch: W11A029 PrepDate: Analyst: **DMP**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,1,2,2-Tetrachloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,1,2-Trichloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,1-Dichloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,1-Dichloroethene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,2,4-Trichlorobenzene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,2,4-Trimethylbenzene	7.4	2.5		ppbv	10	3/30/2011 04:13 PM
1,2-Dibromoethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,2-Dichlorobenzene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,2-Dichloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,2-Dichloropropane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,3,5-Trimethylbenzene	4.4	2.5		ppbv	10	3/30/2011 04:13 PM
1,3-Dichlorobenzene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
1,4-Dichlorobenzene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
2-Butanone	ND	2.5		ppbv	10	3/30/2011 04:13 PM
2-Hexanone	ND	2.5		ppbv	10	3/30/2011 04:13 PM
4-Ethyl Toluene	3.4	2.5		ppbv	10	3/30/2011 04:13 PM
4-Methyl-2-pentanone	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Acetone	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Benzene	170	2.5		ppbv	10	3/30/2011 04:13 PM
Benzyl chloride	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Bromodichloromethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Bromoform	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Bromomethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Carbon disulfide	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Carbon tetrachloride	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Chlorobenzene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Chloroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Chloroform	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Chloromethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
cis-1,2-Dichloroethene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
cis-1,3-Dichloropropene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Dibromochloromethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Dichlorodifluoromethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Dichlorotetrafluoroethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Advanced Technology Laboratory-Las Vega
Lab Order: 117104
Project:
Lab ID: 117104-001A

Client Sample ID: N005556-001A / VINF-03-29
Collection Date: 3/29/2011 1:20:00 PM
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOCS IN AIR BY GCMS						
		EPA TO15				
RunID: MS14_110330A	QC Batch: W11A029			PrepDate:		Analyst: **DMP**
Ethylbenzene	15	2.5		ppbv	10	3/30/2011 04:13 PM
Freon-113	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Hexachlorobutadiene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
m,p-Xylene	32	2.5		ppbv	10	3/30/2011 04:13 PM
MTBE	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Methylene chloride	ND	2.5		ppbv	10	3/30/2011 04:13 PM
o-Xylene	9.5	2.5		ppbv	10	3/30/2011 04:13 PM
Styrene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Tetrachloroethene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Toluene	18	2.5		ppbv	10	3/30/2011 04:13 PM
trans-1,2-Dichloroethene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
trans-1,3-Dichloropropene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Trichloroethene	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Trichlorofluoromethane	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Vinyl acetate	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Vinyl chloride	ND	2.5		ppbv	10	3/30/2011 04:13 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	10	3/30/2011 04:13 PM
GASOLINE RANGE ORGANICS BY GC-MS						
		EPA TO3				
RunID: MS14_110330A	QC Batch: W11A029			PrepDate:		Analyst: **DMP**
Gasoline	5000	0.20		ppmv	10	3/30/2011 04:13 PM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	10	3/30/2011 04:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117104
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **LCS-W11A029** SampType: **LCS** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **131641**
Client ID: **ZZZZZZ** Batch ID: **W11A029** TestNo: **EPA TO15** Analysis Date: **3/30/2011** SeqNo: **2143527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.000	0.25	2.000	0	100	70	130				
Benzene	1.940	0.25	2.000	0	97.0	70	130				
Chloroform	2.130	0.25	2.000	0	106	70	130				
m,p-Xylene	4.490	0.25	4.000	0	112	70	130				
o-Xylene	2.310	0.25	2.000	0	116	70	130				
Tetrachloroethene	2.140	0.25	2.000	0	107	70	130				
Toluene	1.990	0.25	2.000	0	99.5	70	130				
Trichloroethene	2.070	0.25	2.000	0	104	70	130				
Vinyl chloride	1.890	0.25	2.000	0	94.5	70	130				
Surr: 4-Bromofluorobenzene	2.730		2.500		109	70	130				

Sample ID: **LCSD-W11A029** SampType: **LCSD** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **131641**
Client ID: **ZZZZZZ** Batch ID: **W11A029** TestNo: **EPA TO15** Analysis Date: **3/30/2011** SeqNo: **2143528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.980	0.25	2.000	0	99.0	70	130	2.000	1.01	20	
Benzene	1.980	0.25	2.000	0	99.0	70	130	1.940	2.04	20	
Chloroform	2.030	0.25	2.000	0	102	70	130	2.130	4.81	20	
m,p-Xylene	4.540	0.25	4.000	0	114	70	130	4.490	1.11	20	
o-Xylene	2.390	0.25	2.000	0	120	70	130	2.310	3.40	20	
Tetrachloroethene	2.220	0.25	2.000	0	111	70	130	2.140	3.67	20	
Toluene	2.040	0.25	2.000	0	102	70	130	1.990	2.48	20	
Trichloroethene	2.060	0.25	2.000	0	103	70	130	2.070	0.484	20	
Vinyl chloride	2.060	0.25	2.000	0	103	70	130	1.890	8.61	20	
Surr: 4-Bromofluorobenzene	2.750		2.500		110	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117104
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **MB-W11A029** SampType: **MBLK** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **131641**
Client ID: **ZZZZZZ** Batch ID: **W11A029** TestNo: **EPA TO15** Analysis Date: **3/31/2011** SeqNo: **2143530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.25									
1,1,2,2-Tetrachloroethane	ND	0.25									
1,1,2-Trichloroethane	ND	0.25									
1,1-Dichloroethane	ND	0.25									
1,1-Dichloroethene	ND	0.25									
1,2,4-Trichlorobenzene	ND	0.25									
1,2,4-Trimethylbenzene	ND	0.25									
1,2-Dibromoethane	ND	0.25									
1,2-Dichlorobenzene	ND	0.25									
1,2-Dichloroethane	ND	0.25									
1,2-Dichloropropane	ND	0.25									
1,3,5-Trimethylbenzene	ND	0.25									
1,3-Dichlorobenzene	ND	0.25									
1,4-Dichlorobenzene	ND	0.25									
2-Butanone	ND	0.25									
2-Hexanone	ND	0.25									
4-Ethyl Toluene	ND	0.25									
4-Methyl-2-pentanone	ND	0.25									
Acetone	ND	0.25									
Benzene	ND	0.25									
Benzyl chloride	ND	0.25									
Bromodichloromethane	ND	0.25									
Bromoform	ND	0.25									
Bromomethane	ND	0.25									
Carbon disulfide	ND	0.25									
Carbon tetrachloride	ND	0.25									
Chlorobenzene	ND	0.25									
Chloroethane	ND	0.25									
Chloroform	ND	0.25									
Chloromethane	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117104
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: **MB-W11A029** SampType: **MBLK** TestCode: **TO15_CH2** Units: **ppbv** Prep Date: RunNo: **131641**
Client ID: **ZZZZZZ** Batch ID: **W11A029** TestNo: **EPA TO15** Analysis Date: **3/31/2011** SeqNo: **2143530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	ND	0.25									
cis-1,3-Dichloropropene	ND	0.25									
Dibromochloromethane	ND	0.25									
Dichlorodifluoromethane	ND	0.25									
Dichlorotetrafluoroethane	ND	0.25									
Ethylbenzene	ND	0.25									
Freon-113	ND	0.25									
Hexachlorobutadiene	ND	0.25									
m,p-Xylene	ND	0.25									
MTBE	ND	0.25									
Methylene chloride	ND	0.25									
o-Xylene	ND	0.25									
Styrene	ND	0.25									
Tetrachloroethene	ND	0.25									
Toluene	ND	0.25									
trans-1,2-Dichloroethene	ND	0.25									
trans-1,3-Dichloropropene	ND	0.25									
Trichloroethene	ND	0.25									
Trichlorofluoromethane	ND	0.25									
Vinyl acetate	ND	0.25									
Vinyl chloride	ND	0.25									
Surr: 4-Bromofluorobenzene	2.760		2.500		110	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117104
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

Sample ID: **MB-W11A029**	SampType: **MBLK**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **131641**
Client ID: **ZZZZZZ**	Batch ID: **W11A029**	TestNo: **EPA TO3**		Analysis Date: **3/30/2011**	SeqNo: **2143531**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	0.020									
Surr: 4-Bromofluorobenzene	2.540		2.500		102	70	130				

Sample ID: **LCS-W11A029**	SampType: **LCS**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **131641**
Client ID: **ZZZZZZ**	Batch ID: **W11A029**	TestNo: **EPA TO3**		Analysis Date: **3/30/2011**	SeqNo: **2143532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	194.830	0.020	200.0	0	97.4	70	130				
Surr: 4-Bromofluorobenzene	2.800		2.500		112	70	130				

Sample ID: **LCSD-W11A029**	SampType: **LCSD**	TestCode: **TO3_GAS_C**	Units: **ppmv**	Prep Date:	RunNo: **131641**
Client ID: **ZZZZZZ**	Batch ID: **W11A029**	TestNo: **EPA TO3**		Analysis Date: **3/30/2011**	SeqNo: **2143533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	197.180	0.020	200.0	0	98.6	70	130	194.8	1.20	20	
Surr: 4-Bromofluorobenzene	2.760		2.500		110	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: _____
Logged By: _____ Date: _____

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY

Method of Transport
☐ Client ☐ ATL
☐ FedEx ☐ OnTrac
☐ GSO
☐ Other: _____

Sample Condition Upon Receipt

1. CHILLED	Y ☐ N ☐	4. SEALED	Y ☐ N ☐
2. HEADSPACE (VOA)	Y ☐ N ☐	5. # OF SPLS MATCH COC	Y ☐ N ☐
3. CONTAINER INTACT	Y ☐ N ☐	6. PRESERVED	Y ☐ N ☐

Client: Advanced Technology Laboratory
Attention:
Address: 3151 W Post Rd.
City: Las Vegas State: NV Zip Code: 89118
Tel: (702) 307-2659
Fax:
Project Name: CH2M Hill -Norwalk
Project #:
Sampler: (Signature)

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Print Name Date
Signature

Send Report To:
Attn:
Co:
Addr:
City: State: Zip:

Bill To:
Attn:
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
24 hr composite
Canceled set up

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode_____
OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	24 hr composite	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	REMARKS
	117104-N1	-	3/28/2011										X					X						

- TAT starts 8AM the following day if samples received after 5 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☐ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 3/29/11

PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Definbough**

ADDRESS: **1100 Town & Country Road**

CITY: **Orange, CA 92868**

TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**

PROJECT CONTACT: **James Dye**

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)									Comments
	VINF- 03-29	Header	3/29/11	1320	Air	4	X	X	X									Monthly sample

Relinquished by: (Signature)	Received by: (Signature)	Date: 3/29/11	Time: 1328
Relinquished by: (Signature)	Received by: (Signature)	Date: 3/29/11	Time: 1352
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 01/11/2011

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-~~4045~~
Acct #: -8807

Field Sampler: J. DYE

29-Mar-11

117104-057

	Sample ID		Matrix	Date Collected	Bottle Type	Requested Tests EPA TO15	EPA TO3
N005556-001A	/ VINF-03-29		Air	3/29/2011 1:20:00 PM	BAG	1	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N005556 Please fax results by: Normal TAT

		Date/Time			Date/Time
Relinquished by:		3/29/11	**Received by:**		3/29/11 1610
Relinquished by:			**Received by:**		

Air TECHNOLOGY Laboratories, Inc.

April 6, 2011

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Advanced Technology Labs, Inc.
ATTN: Marlon Cartin
3151-3153 W. Post Rd.
Las Vegas, NV 89118

LABORATORY TEST RESULTS

Project Reference: SFPP-Norwalk Site
ATL Project Reference: N005556
Lab Number: C033003-01

Enclosed are results for sample(s) received 3/30/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

C033003

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL. 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
ATL Air Labs
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: J. DYE

29-Mar-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ASTM D1946
N005556-001B / VINF-03-29	Air	3/29/2011 1:20:00 PM	BAG	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N005556 Please fax results by: Normal TAT
for Argon/O_2, CO_2, CH_4

		Date/Time			Date/Time
Relinquished by:		3/29/11	**Received by:**		3/30/11
Relinquished by:			**Received by:**		

From:

03/29/2011 15:12 #136 P.001/001

C033003-01

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin [marlon@atl-labs.com

CHAIN OF CUSTODY RECORD

DATE: 3/29/11

PAGE: 1 OF 1

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

CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	~~TO-15~~	~~TO-3 (TPH-g)~~	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
-01	VINF- 03-29	Header	3/29/11	1320	Air	4	X	X	X	Monthly sample

Relinquished by: (Signature) — Received by: (Signature) — Date: 3/29/11 — Time: 1328
Relinquished by: (Signature) — Received by: (Signature) — Date: 3/29/11 — Time: 1352
Relinquished by: (Signature) — 3/30/11 1159 — Received by: (Signature) — Date: 3/30/11 — Time: 1159

Revised: 01/11/2011

Client: ATL-Las Vegas
Attn: Marlon Cartin
Project Name: Kinder Morgan Energy Partners
Project No.: SFPP - Norwalk Site
Date Received: 03/30/11
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	C033003-01							
Client Sample I.D.:	VINF- 03-29							
Date Sampled:	03/29/11							
Date Analyzed:	03/30/11							
QC Batch No.:	110330GC8A1							
Analyst Initials:	ZK							
Dilution Factor:	1.0							
ANALYTE	Result % v/v	RL % v/v						
Carbon Dioxide	0.13	0.010						
Oxygen/Argon	20	0.50						
Methane	0.013	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 4-6-11

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 110330GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		03/30/11		03/29/11		03/29/11			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		30mar001		29mar053		29mar054			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	93	70-130%	93	70-130%	0.4	<30
Methane	0.0010	0.0010	ND	127	70-130%	128	70-130%	0.4	<30
Carbon Dioxide	0.010	0.010	ND	95	70-130%	96	70-130%	0.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 4-6-11
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report