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

Prepared for
Kinder Morgan Energy Partners, L.P.

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The material and data presented in this report were prepared consistent with current and generally accepted consulting principles and practices. This work was supervised by the following CH2M HILL licensed professional.



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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 second 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 of April through June 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 April through June 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). 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) have been installed downstream of the LGAC units to treat tertiary butyl alcohol (TBA), a new discharge parameter in the Waste Discharge Requirements (WDRs) issued by the RWQCB on June 8, 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 second 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
- Extraction well redevelopment
- Troubleshooting of the SVE and TFE/GWE systems
- Installation of the temporary FBBRs
- Troubleshooting the process and dilution valves of the SVE unit
- Routine changeout of the carbon units

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 second 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 second quarter 2011 are summarized in Tables 2 and 3. The remediation systems operated during the second quarter 2011 with the following exceptions.

- The SVE and TFE/GWE systems were shut down from April 4 through April 15, 2011, to allow static water levels and groundwater samples to be collected for the April 2011 semiannual groundwater monitoring event.
- The SVE system was shut down on April 19, 2011, to drain water due to condensation from the SVE manifold, and to troubleshoot the dilution air valve. The air valve did not close or open automatically when needed.
- The TFE/GWE system was off on arrival on April 19, 2011, due to clogged bag filters. Water was drained from one of the two 8,000-gallon holding tanks. The water in the tank was full of particulates that clogged the filters. The bag filters were replaced and the system was restarted on the same day.

- The TFE/GWE system was shut down on April 20, 2011, for repairs to the manifold piping. The system was turned on the next day.
- The TFE/GWE system was shut down on April 22, 2011, to change the granular activated carbon (GAC) from the first carbon vessel. However, the piping in the first vessel broke during the changeout. The system stayed off until the piping was repaired. The TFE/GWE system was restarted on April 27, 2011.
- On May 3, 2011, the SVE system was shut down to drain water due to condensation from the manifold. The SVE system was restarted on the same day.
- The TFE/GWE system was shut down on May 10, 2011, for routine cleaning of the oil-water separator, the bag filter housing, and the transfer tank. The system was restarted on the same day.
- The SVE system was off upon arrival on May 17, 2011, due to a high temperature alarm. The system was restarted on the same day.
- The TFE/GWE system was shut down on May 20, 2011, to change the GAC from the first vessel. The systems were restarted on the same day.
- The SVE system was shut down from May 24 through May 27, 2011, for groundwater monitoring.
- The TFE/GWE system was off upon arrival on May 31, 2011, due to clogged filters. The filters were replaced and the system was restarted on the same day.
- From June 6 through June 8, 2011, the TFE/GWE system was shut off in order to redevelop the southeastern wells (GMW-36, GMW-O-15, and GMW-O-18) and MW-SF-11 in the south-central area to remove the fine particulates from the wells. The southeastern conveyance lines were also cleaned on June 14, 2011.
- On June 7, 2011, the TFE/GWE system was turned off to change the GAC from the first carbon vessel. The SVE was also shut down to drain water due to condensation from the SVE manifold. The systems were restarted on the same day.
- The TFE/GWE system was off upon arrival on June 10, 2011, due to clogged filters. The southeast wells were shut off due to fine particulates in the lines and the wells. The system was restarted on the same day.
- On June 21, 2011, the SVE system was off upon arrival. The reason for the shutdown was unknown. The SVE system was restarted on the same day.
- On June 27, 2011, the SVE system was shut down to add a digital chart recorder on the SVE and to repair the motor and actuator that controls the dilution and process valves. The system was repaired and back online on July 12, 2011.

Overall, during the second quarter 2011, the SVE system operated approximately 75 percent of the time, while the TFE/GWE system operated approximately 80 percent of the time.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the second quarter 2011 when the systems were in operation. During the second quarter 2011, influent vapor samples were collected on April 26, May 17, and June 17, 2011, when the SVE system was operating. Influent water samples were

collected on April 26, May 17, and June 21, 2011, when the TFE/GWE system was operating. The vapor and water samples were delivered to Advanced Technology Laboratories (ATL) for analysis. ATL is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program.

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 June, 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 1,153 pounds during the second quarter 2011, for a cumulative mass removal of approximately 28,222 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 2,906,477 gallons of groundwater was extracted during the second quarter 2011. This total includes approximately 2,084,092 gallons of water from the south-central area and 822,385 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 ($\mu\text{g}/\text{L}$) and 70 $\mu\text{g}/\text{L}$, 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 second 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 63 pounds during the second quarter 2011, for a cumulative mass removed from these areas of approximately 1,407 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 second quarter 2011, vapor-phase VOC concentrations were measured in individual wells using a PID on April 26 and May 20, 2011, as shown in Table 6. The operation status of the SVE wells at the end of the second quarter 2011 is also shown in Table 6. PID readings recorded on April 26 and May 20, 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 June, because the system was off most of the month.

Groundwater monitoring in the WSB region during the second 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 second quarter 2011, free product was detected in five remediation wells (GMW-36, GMW-O-15, MW-SF-10, MW-SF-13, and MW-SF-15). 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 2 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 second quarter 2011, there was one TFE/GWE well online from the south-central area (MW-SF-11) and three wells from the southeastern area (GMW-O-15, GMW-O-18, and GMW-36). During the second quarter 2011, the GAC was changed out three times. Frequent changeouts of the carbon may be a result of higher flow to the system and fouling of the lead carbon vessel. The temporary FBBR, in addition to removing TBA from the process water, will also be able to remove other fuel oxygenates (e.g., MTBE) from the process water. Therefore, changeouts due to breakthrough of MTBE and petroleum hydrocarbons from the carbon vessels will be less frequent. Additional extraction wells will be brought online during the third quarter 2011, as needed.

The second temporary FBBR is anticipated to be installed by the third quarter 2011 to increase groundwater treatment capacity.

6. Planned Third Quarter 2011 Activities

During the third quarter 2011, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. Installation of the second FBBR unit is anticipated to be completed. 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 third quarter 2011 will be described in the third quarter 2011 remediation progress report to be submitted by October 15, 2011.

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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 Second Quarter 2011 ¹	
						SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF	NA
	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	ON	OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	NA
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF	NA
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF	NA
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	NA
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	ON
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	OFF
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF	OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON	NA
	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	NA
	VEW-2	--	--	--	SVE	OFF	NA
	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	NA
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON	OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	NA	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	NA
	HW-2	--	--	--	SVE	OFF	NA
	Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	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	NA	ON
GMW-SF-9		4/1/2003	73.00	37 - 46	GWE	NA	OFF
GMW-SF-10		4/2/2003	75.77	37 - 46	GWE	NA	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	NA	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	NA	OFF

Notes

1. Based on information provided by SFPP, L.P.

Abbreviations

NA = Not Applicable

-- = 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 ₂ O)	Mass Removed (pounds) ²
2007 Totals³	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
First Quarter 2011 Totals	73,734	1,293					6,561
04/19/11	73,899.5	165	--	8	1,949	50	58
04/26/11	74,061.2	162	1.9	0	1,976	60	0
05/03/11	74,224.9	164	--	6	2,047	50	31
05/13/11	74,461.4	236	--	38	2,048	50	278
05/17/11	74,532.8	71	90	29	1,847	50	57
05/24/11	74,695.1	162	--	46	1,827	50	203
06/01/11	74,814.5	119		62	1,831	55	204
06/03/11	74,860.4	46		--	1961	50	84 ⁵
06/07/11	74,951.8	91		--	1955	50	167 ⁵
06/08/11	74,974.4	23		31	1781	56	19
06/09/11	74,997.3	23		--	1782	50	19 ⁵
06/10/11	75,018.5	21		--	1785	50	17 ⁵
06/14/11	75,114.1	96		1	1811	50	3
06/17/11	75,180.6	67		--	1808	50	2
06/21/11	75,207.3	27		3	1807	50	2
06/23/11	75,256.0	49		--	1818	52	3
06/27/11	75,346.4	90		--	--	--	6 ⁶
Second Quarter 2011 Totals		1,612	--	--	--	--	1,153
Cumulative Mass Removed Since Implementation of RAP Upgrades⁴							28,222

Notes

- 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.
- The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.
- The 2007 total includes only operation after upgrades were made to the south-central system.
- Upgrades to the south-central system are described in the Second Addendum to Remedial Action Plan (Geomatrix, 2006).
- Used previous PID reading to obtain mass removed.
- System was turned off prior to obtaining data. Used previous PID reading and flow to obtain mass removed.

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
H₂O = 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 Totals³	2,080,762	529,411	630,877	--	395
2008 Totals	5,391,860	700,882	405,954⁴	--	311
2009 Totals	8,044,836	770,869	0	--	161
2010 Totals	3,699,058	2,025,777	2,244	--	334
First Quarter 2011 Totals	2,820,685	314,343	0	--	142
04/01/11	270,950	83,116	0	3,100	9.13
04/04/11	103,498	37,770	0	3,100	3.64
04/15/11	883	341	0	3,100	0.03
04/19/11	137,387	46,227	0	3,100	4.73
04/21/11	16,184	10,296	0	3,100	0.68
04/22/11	23,532	15,142	0	3,100	1.00
04/26/11	1,849	195	0	1,400	0.02
04/29/11	116,777	29,461	0	1,400	1.70
05/03/11	85,770	22,706	0	1,400	1.26
05/06/11	53,108	13,209	0	1,400	0.77
05/09/11	108,881	42,291	0	1,400	1.76
05/10/11	34,995	12,710	0	1,400	0.56
05/13/11	101,393	36,837	0	1,400	1.61
05/17/11	127,475	48,919	0	3,300	4.84
05/20/11	101,369	39,513	0	3,300	3.87
05/24/11	122,181	56,258	0	3,300	4.90
05/27/11	86,311	40,194	0	3,300	3.47
05/31/11	105,425	52,818	0	3,300	4.34
06/01/11	31,828	14,592	0	3,300	1.27
06/03/11	65,224	25,737	0	3,300	2.50
06/07/11	68,730	24,110	0	3,300	2.55
06/08/11	1,523	235	0	3,300	0.05
06/09/11	28,821	12,900	0	3,300	1.14
06/10/11	33,814	12,524	0	3,300	1.27
06/14/11	91,425	2,355	0	3,300	2.57
06/17/11	21,828	0	0	3,300	0.60
06/21/11	62,701	15,259	0	1,200	0.78
06/23/11	19,548	25,417	0	1,200	0.45
06/27/11	33,625	47,698	0	1,200	0.81
06/28/11	8,457	15,386	0	1,200	0.24
07/01/11	18,600	38,169	0	1,200	0.57
Second Quarter 2011 Totals	2,084,092	822,385	0	--	63
Cumulative TPH-g Removed Since Implementation of RAP Upgrades⁵					1,407

Notes

- The TPH-g concentration reflects analytical results for samples collected from the influent of the total fluids extraction (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.
- 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.
- The 2007 total includes only operation after upgrades were made to the south-central system.
- Groundwater removal in the West Side Barrier area was discontinued in August 2008. 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.
- Upgrades to the south-central remediation system are described in the Second Addendum to Remedial Action Plan (Geomatrix, 2006).

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 Results¹

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

Date Sampled	Total Fluids Extraction System Status	ASTM D-1946			EPA TO-3	EPA TO-15 (VOCs) ²				
		Methane (%v)	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 ³	<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
3/29/2011	ON	0.013	0.13	20.0	5	170	15	18	41.5	<2.5
4/26/2011	ON	0.0011	0.079	20.0	1.9	16	2.4	8.8	7.7	<1.2
5/17/2011	ON	0.021	0.65	22.0	90	2,600	140	2,200	1,100	220
6/17/2011	ON	0.001	0.20	22.0	3	59	8.1	31	56	<0.25

Notes

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

Abbreviations

ASTM = American Society for Testing and Materials
 EPA = United States Environmental Protection Agency
 VOC = volatile organic compound
 %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

TABLE 5
Extracted Groundwater Analytical Results¹

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

Date Sampled	EPA 8015M		EPA 8260B Volatile Organic Compounds (VOCs) ²				
	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
4/26/2011	1,400	1,200	610	5.8	5.7	20	130
5/17/2011	3,300	1,700	3,600	82	180	300	240
6/21/2011	1,200	720	860	9.6	31	82	190

Notes

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

Abbreviations

TPH-g = total petroleum hydrocarbons as gasoline (C4-C12)
 TPH-fp = total petroleum hydrocarbons as fuel products (C7-C28)
 MTBE = methyl tertiary butyl ether
 µg/L = micrograms per liter
 -- = 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 Second Quarter 2011 ¹	4/26/2011 (ppmv as Hexane) ²	5/20/2011 (ppmv as Hexane) ²
South-Central	MW-SF-1	SVE	OFF	0.0	42.2
	MW-SF-2	SVE; TFE	OFF; OFF	0.0	0.0
	MW-SF-3	SVE; TFE	ON ; OFF	102.2	55.5
	MW-SF-4	SVE	OFF	31.6	1.2
	MW-SF-5	SVE	OFF	0.0	10.8
	MW-SF-6	SVE; TFE	OFF; OFF	10.8	7.2
	MW-SF-9	SVE	OFF	0.0	0.0
	MW-SF-10	SVE	OFF	0.0	6.5
	MW-SF-11	SVE; TFE	OFF; ON	0.0	22.0
	MW-SF-12	SVE; TFE	ON ; OFF	148.3	130.9
	MW-SF-13	SVE; TFE	OFF; OFF	9.8	8.0
	MW-SF-14	SVE; TFE	OFF; OFF	--	11.9
	MW-SF-15	SVE; TFE	OFF; OFF	21.5	2.8
	MW-SF-16	SVE; TFE	ON ; OFF	68.1	843.5
	GMW-9	SVE; TFE	OFF; OFF	0.0	23.8
	GMW-10	SVE	ON	89.2	219.5
	GMW-22	SVE; TFE	OFF; OFF	0.0	23.8
	GMW-24	SVE; TFE	OFF; OFF	0.0	0.0
	GMW-25	SVE; GWE	OFF; OFF	0.0	0.0
	GWR-3	SVE; GWE	ON ; OFF	0.9	258.6
	VEW-1	SVE	OFF	0.0	9.2
	VEW-2	SVE	OFF	13.2	28.7
	MW-O-1	SVE; TFE	ON ; OFF	13.1	30.8
	MW-O-2	SVE; TFE	ON ; OFF	6.9	39.5
	GMW-O-11	SVE; TFE	ON ; OFF	2.5	3.8
	GMW-O-12	SVE	ON	106.6	9.2
	GMW-O-20	SVE; TFE	ON ; OFF	24.2	2738
GMW-O-23	SVE; TFE	ON ; OFF	--	4.9	
MW-18 (MID)	SVE	OFF	0.0	4.6	
HW-2	SVE	OFF	18	27.7	
Southeastern	GMW-O-15	SVE; TFE	ON ; ON	3.5	1530
	GMW-O-18	SVE; TFE	ON ; ON	3.5	1530

Notes

- The well operations listed correspond to the well functions indicated in the previous column.
- Vapor readings measured in the field with a photoionization detector (PID) calibrated using 50 ppmv of hexane.
-- = 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
	4/11/2011	74.44	25.41	---	---	49.03	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
	4/11/2011	74.67	25.21	---	---	49.46	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
4/11/2011	74.17	26.45	---	---	47.72	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
4/11/2011	74.04	28.21	---	---	45.83	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-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
4/11/2011	74.29	26.21	---	---	48.08	Blaine Tech	
GMW-36	8/28/2007	74.53	24.31	---	---	50.22	Stantec
	11/12/2007	74.53	24.86	24.85	0.01	---	Stantec
	2/19/2008	74.53	25.50	---	---	49.27	Stantec
	4/14/2008	74.53	24.61	---	---	50.16	Stantec
	8/8/2008	74.53	26.20	26.14	0.06	---	Envent
	10/16/2008	74.53	26.11	26.09	0.02	---	Envent
	12/18/2008	74.53	28.70	28.65	0.05	---	Envent
	1/15/2009	74.53	27.73	27.45	0.28	---	Envent
	2/20/2009	74.53	26.39	26.35	0.04	---	Envent
	2/23/2009	74.53	26.13	25.80	0.33	---	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	---	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	7/21/2009	74.53	26.03	---	---	48.50	Envent
	7/22/2009	74.53	25.90	---	---	48.63	Blaine Tech
	10/19/2009	74.53	26.56	26.45	0.11	---	Blaine Tech
	2/4/2010	74.53	26.93	26.80	0.13	---	Kinder Morgan
	3/15/2010	74.53	26.80	---	---	47.73	Blaine Tech
	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	
4/12/2011	74.53	26.98	25.05	1.93	---	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
4/13/2011	74.17	24.19	---	---	49.98	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-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
	4/11/2011	73.49	24.04	---	---	49.45	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	
12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech	
1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech	
4/12/2011	74.23	22.55	22.53	0.02	---	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
4/12/2011	74.36	22.88	---	---	51.48	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-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
4/11/2011	73.32	23.82	---	---	49.50	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
	4/13/2011	71.43	23.72	---	---	47.71	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	
4/11/2011	73.63	25.03	---	---	48.60	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
	4/11/2011	73.00	23.90	---	---	49.10	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
	4/11/2011	75.77	26.80	---	---	48.97	Blaine Tech
GWR-3	11/12/2007	74.93	27.90	---	---	47.03	Stantec
	10/17/2008	74.93	29.88	---	---	45.05	Envent
	12/17/2008	74.93	19.71	---	---	55.22	Envent
	1/15/2009	74.93	29.27	29.26	0.26	---	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	10/4/2010	74.93	30.67	---	---	44.26	Blaine Tech
4/11/2011	74.93	29.94	---	---	44.99	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
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	---	---	43.50	Blaine Tech
	10/4/2010	75.67	32.30	---	---	43.37	Blaine Tech
	4/11/2011	75.67	31.28	---	---	44.39	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
4/11/2011	75.48	25.59	---	---	49.89	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
	4/13/2011	71.90	23.31	---	---	48.59	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
4/11/2011	78.93	29.87	---	---	49.06	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
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
	4/11/2011	78.53	29.83	---	---	48.70	Blaine Tech
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	---	Stantec
	8/12/2008	78.12	30.30	29.05	1.25	---	Envent
	10/17/2008	78.12	29.45	---	---	48.67	Envent
	12/18/2008	78.12	31.08	30.82	0.26	---	Envent
	1/15/2009	78.12	29.96	29.94	0.02	---	Envent
	3/20/2009	78.12	31.10	---	---	47.02	Envent
	3/24/2009	78.12	27.82	---	---	50.30	Envent
	4/21/2009	78.12	29.51	29.50	0.01	---	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	11/6/2009	78.12	30.37	30.35	0.02	---	Kinder Morgan
	12/9/2009	78.12	30.53	---	---	48.05	Kinder Morgan
	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	
4/12/2011	78.12	29.44	---	---	48.68	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	
4/11/2011	79.38	30.85	---	---	48.53	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
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
	4/11/2011	79.74	31.03	---	---	48.71	Blaine Tech
MW-SF-6	11/12/2007	76.80	27.14	---	---	49.66	Stantec
	8/12/2008	76.80	29.82	---	---	46.98	Envent
	10/17/2008	76.80	29.75	---	---	47.05	Envent
	12/18/2008	76.80	30.73	---	---	46.07	Envent
	1/15/2009	76.80	31.35	---	---	45.45	Envent
	3/24/2009	76.80	30.50	---	---	46.30	Envent
	4/21/2009	76.80	28.45	---	---	48.35	Envent
	7/21/2009	76.80	27.22	---	---	49.58	Envent
	11/6/2009	76.80	29.10	---	---	47.70	Kinder Morgan
	12/9/2009	76.80	31.35	---	---	45.45	Kinder Morgan
	10/4/2010	76.80	29.09	---	---	47.71	Blaine Tech
	1/10/2011	76.80	30.87	---	---	45.93	Blaine Tech
	4/11/2011	76.80	28.16	---	---	48.64	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	
4/11/2011	74.10	24.16	---	---	49.94	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
	4/11/2011	76.53	27.41	27.37	0.04	---	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
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	
4/12/2011	78.56	30.82	---	---	47.74	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	
4/11/2011	78.07	29.47	---	---	48.60	Blaine Tech	
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix
	8/21/2007	73.40	23.11	---	---	50.29	Geomatrix
	8/28/2007	73.40	22.85	---	---	50.55	Stantec
	9/11/2007	73.40	23.10	---	---	50.30	Geomatrix
	10/5/2007	73.40	28.11	---	---	45.29	Geomatrix
	11/2/2007	73.40	25.43	25.41	0.02	---	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	---	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	---	Envent
	10/17/2008	73.40	27.28	24.33	2.95	---	Envent
	10/21/2008	73.40	27.14	24.26	2.88	---	Envent
	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	
4/12/2011	73.40	24.79	24.78	0.01	---	Blaine Tech	

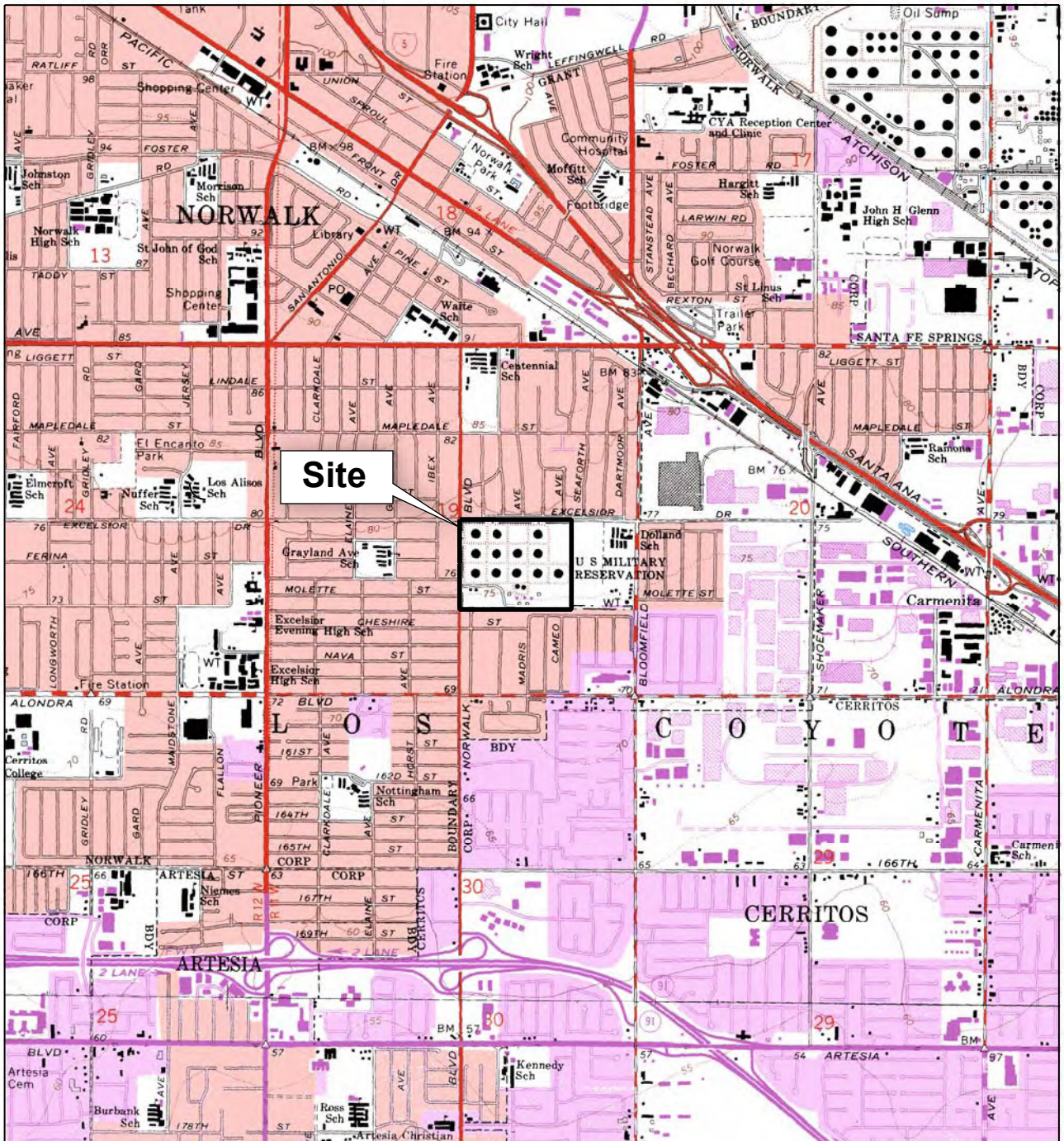
TABLE 7
Groundwater and Product Measurements and Elevations for
Total Fluids, Groundwater, and Soil Vapor Extraction Wells
SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

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
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
4/12/2011	78.16	29.55	---	---	48.61	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	
4/12/2011	78.27	30.50	29.40	1.1	---	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
	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	
4/12/2011	78.21	29.52	---	---	48.69	Blaine Tech	

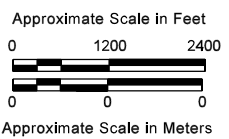
Abbreviations

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



Site



SITE LOCATION MAP
DFSP NORWALK
Norwalk, California

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

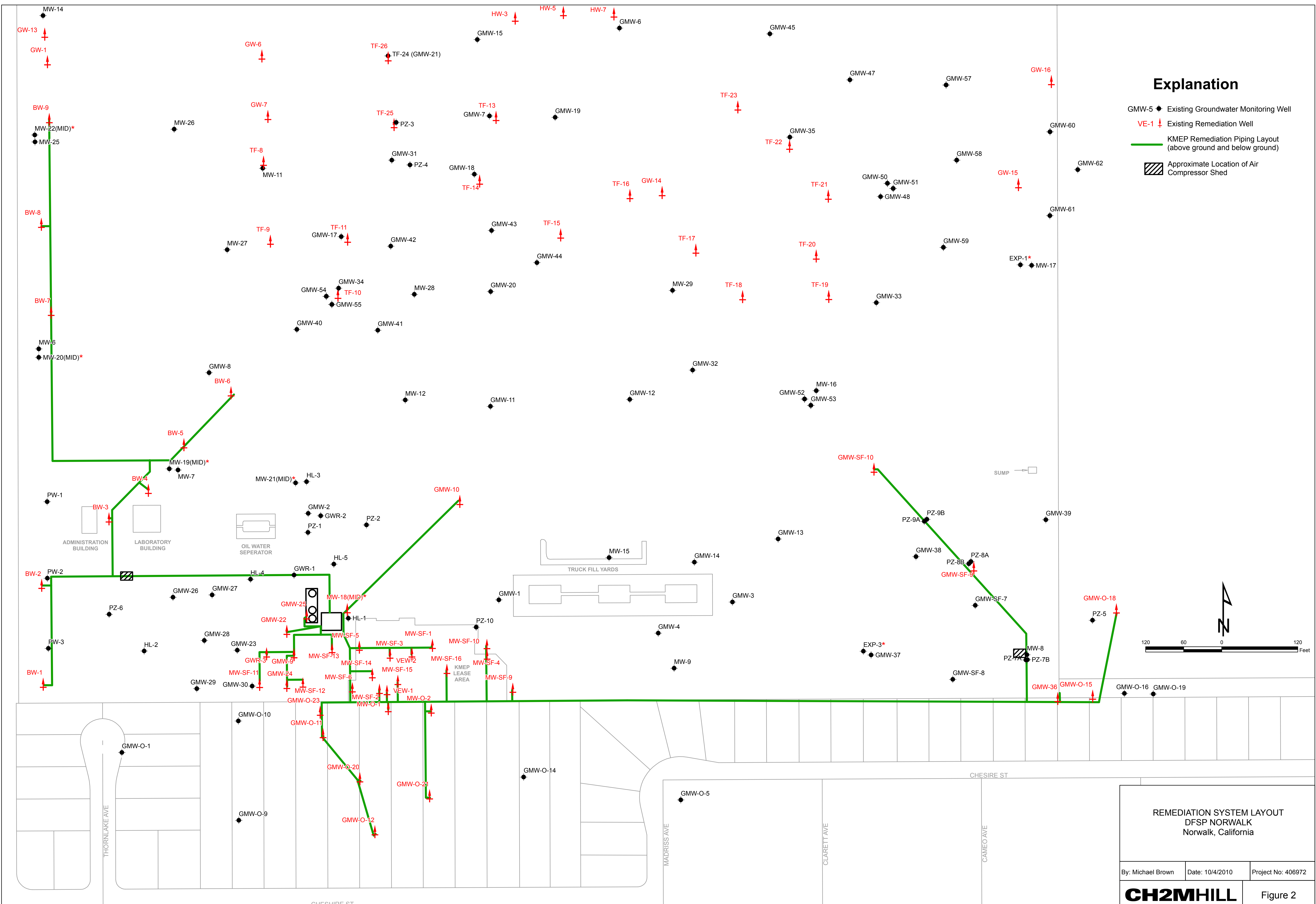


Figure 1

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.

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



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

May 04, 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.: N005706

RE: SFPP - Norwalk Site

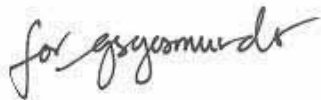
Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on April 27, 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

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005706

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 possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005706
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005706-001A	INF-04-26	Wastewater	4/26/2011 11:45:00 AM	4/27/2011	
N005706-001B	INF-04-26	Wastewater	4/26/2011 11:45:00 AM	4/27/2011	
N005706-001C	INF-04-26	Wastewater	4/26/2011 11:45:00 AM	4/27/2011	



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 04-May-11

CLIENT: CH2M HILL
Lab Order: N005706
Project: SFPP - Norwalk Site
Lab ID: N005706-001

Client Sample ID: INF-04-26
Collection Date: 4/26/2011 11:45:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_110503B	QC Batch: 36794				PrepDate: 5/2/2011	Analyst: MDM
TPH-Fuel Product	1200	13	50	ug/L	1	5/3/2011 04:41 PM
Surr: Octacosane	59.0	0	26-152	%REC	1	5/3/2011 04:41 PM
Surr: p-Terphenyl	63.6	0	57-132	%REC	1	5/3/2011 04:41 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_110429A	QC Batch: E11VW019				PrepDate:	Analyst: QBM
TPH-Gasoline	1400	6.0	100	µg/L	1	4/29/2011
Surr: Chlorobenzene - d5	93.9	0	74-138	%REC	1	4/29/2011

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110428A	QC Batch: D11VW056				PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	4/28/2011 05:05 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	4/28/2011 05:05 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	4/28/2011 05:05 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	4/28/2011 05:05 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	4/28/2011 05:05 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	4/28/2011 05:05 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	4/28/2011 05:05 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	4/28/2011 05:05 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	4/28/2011 05:05 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	4/28/2011 05:05 PM
1,2,4-Trimethylbenzene	8.8	0.095	1.0	µg/L	1	4/28/2011 05:05 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	4/28/2011 05:05 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	4/28/2011 05:05 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	4/28/2011 05:05 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	4/28/2011 05:05 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	4/28/2011 05:05 PM
1,3,5-Trimethylbenzene	2.7	0.087	1.0	µg/L	1	4/28/2011 05:05 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	4/28/2011 05:05 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	4/28/2011 05:05 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	4/28/2011 05:05 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	4/28/2011 05:05 PM
2-Butanone	400	1.0	10	µg/L	1	4/28/2011 05:05 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	4/28/2011 05:05 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



*Advanced Technology
Laboratories, Inc.*

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 04-May-11

CLIENT: CH2M HILL
Lab Order: N005706
Project: SFPP - Norwalk Site
Lab ID: N005706-001

Client Sample ID: INF-04-26
Collection Date: 4/26/2011 11:45:00 AM
Matrix: WASTEWATER

Analyses **Result** **MDL** **PQL** **Qual** **Units** **DF** **Date Analyzed**

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110428A	QC Batch:	D11VW056	PrepDate:	Analyst:	QBM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	4/28/2011 05:05 PM
4-Isopropyltoluene	ND	0.080	1.0	µg/L	1	4/28/2011 05:05 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	4/28/2011 05:05 PM
Acetone	150	1.6	10	µg/L	1	4/28/2011 05:05 PM
Acrolein	ND	4.3	20	µg/L	1	4/28/2011 05:05 PM
Acrylonitrile	ND	0.61	20	µg/L	1	4/28/2011 05:05 PM
Benzene	610	0.75	10	µg/L	10	4/28/2011 04:43 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	4/28/2011 05:05 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	4/28/2011 05:05 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	4/28/2011 05:05 PM
Bromoform	ND	0.086	1.0	µg/L	1	4/28/2011 05:05 PM
Bromomethane	ND	0.13	1.0	µg/L	1	4/28/2011 05:05 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	4/28/2011 05:05 PM
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	4/28/2011 05:05 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	4/28/2011 05:05 PM
Chloroethane	ND	0.14	1.0	µg/L	1	4/28/2011 05:05 PM
Chloroform	ND	0.058	1.0	µg/L	1	4/28/2011 05:05 PM
Chloromethane	ND	0.054	1.0	µg/L	1	4/28/2011 05:05 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	4/28/2011 05:05 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	4/28/2011 05:05 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	4/28/2011 05:05 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	4/28/2011 05:05 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	4/28/2011 05:05 PM
Ethylbenzene	5.8	0.051	1.0	µg/L	1	4/28/2011 05:05 PM
Freon-113	ND	0.080	1.0	µg/L	1	4/28/2011 05:05 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	4/28/2011 05:05 PM
Isopropylbenzene	ND	0.057	1.0	µg/L	1	4/28/2011 05:05 PM
m,p-Xylene	11	0.17	1.0	µg/L	1	4/28/2011 05:05 PM
Methylene chloride	ND	0.10	5.0	µg/L	1	4/28/2011 05:05 PM
MTBE	130	0.089	1.0	µg/L	1	4/28/2011 05:05 PM
n-Butylbenzene	ND	0.082	1.0	µg/L	1	4/28/2011 05:05 PM
n-Propylbenzene	1.5	0.087	1.0	µg/L	1	4/28/2011 05:05 PM
Naphthalene	4.8	0.056	1.0	µg/L	1	4/28/2011 05:05 PM
o-Xylene	9.4	0.077	1.0	µg/L	1	4/28/2011 05:05 PM
sec-Butylbenzene	ND	0.098	1.0	µg/L	1	4/28/2011 05:05 PM
Styrene	ND	0.072	1.0	µg/L	1	4/28/2011 05:05 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



*Advanced Technology
Laboratories, Inc.*

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 04-May-11

CLIENT: CH2M HILL
Lab Order: N005706
Project: SFPP - Norwalk Site
Lab ID: N005706-001

Client Sample ID: INF-04-26
Collection Date: 4/26/2011 11:45:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110428A	QC Batch: D11VW056	PrepDate:	Analyst: QBM			
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	4/28/2011 05:05 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	4/28/2011 05:05 PM
Toluene	5.7	0.12	2.5	µg/L	1	4/28/2011 05:05 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	4/28/2011 05:05 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	4/28/2011 05:05 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	4/28/2011 05:05 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	4/28/2011 05:05 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	4/28/2011 05:05 PM
Xylenes, Total	20	1.5	2.0	µg/L	1	4/28/2011 05:05 PM
Surr: 1,2-Dichloroethane-d4	90.0	0	72-119	%REC	1	4/28/2011 05:05 PM
Surr: 1,2-Dichloroethane-d4	86.6	0	72-119	%REC	10	4/28/2011 04:43 PM
Surr: 4-Bromofluorobenzene	107	0	76-119	%REC	1	4/28/2011 05:05 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	10	4/28/2011 04:43 PM
Surr: Dibromofluoromethane	98.4	0	85-115	%REC	1	4/28/2011 05:05 PM
Surr: Dibromofluoromethane	92.9	0	85-115	%REC	10	4/28/2011 04:43 PM
Surr: Toluene-d8	108	0	81-120	%REC	10	4/28/2011 04:43 PM
Surr: Toluene-d8	108	0	81-120	%REC	1	4/28/2011 05:05 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



*Advanced Technology
 Laboratories, Inc.*

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

CLIENT: CH2M HILL

Work Order: N005706

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-36794	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 5/2/2011	RunNo: 79900						
Client ID: PBW	Batch ID: 36794	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 5/3/2011	SeqNo: 1262965						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Fuel Product
 Surr: Octacosane
 Surr: p-Terphenyl

50
 20.885
 62.996
 77.392
 80.00
 80.00
 78.7
 96.7
 26
 57
 152
 132

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

TestCode: 8015_W_GSFPP

Sample ID: E110429LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 79851						
Client ID: LCSW	Batch ID: E111VW019	TestNo: EPA 8015B		Analysis Date: 4/29/2011	SeqNo: 1261551						
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	47.478		50.00		95.0	74	138				

Sample ID: N005706-001BMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 79851						
Client ID: ZZZZZZ	Batch ID: E111VW019	TestNo: EPA 8015B		Analysis Date: 4/29/2011	SeqNo: 1261552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	2646.000	100	1000	1386	126	67	136				
Surr: Chlorobenzene - d5	50.222		50.00		100	74	138				

Sample ID: N005706-001BMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 79851						
Client ID: ZZZZZZ	Batch ID: E111VW019	TestNo: EPA 8015B		Analysis Date: 4/29/2011	SeqNo: 1261553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	2658.000	100	1000	1386	127	67	136	2646	0.452	30	
Surr: Chlorobenzene - d5	50.481		50.00		101	74	138		0	0	

Sample ID: E110429MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 79851						
Client ID: PBW	Batch ID: E111VW019	TestNo: EPA 8015B		Analysis Date: 4/29/2011	SeqNo: 1261554						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100									
Surr: Chlorobenzene - d5	51.416		50.00		103	74	138				

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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110428LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: LCSW	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	26.580	1.0	25.00	0	106	81	129				
1,1,1-Trichloroethane	19.660	1.0	25.00	0	78.6	67	132				
1,1,2,2-Tetrachloroethane	24.940	1.0	25.00	0	99.8	63	128				
1,1,2-Trichloroethane	25.000	1.0	25.00	0	100	75	125				
1,1-Dichloroethane	24.930	0.50	25.00	0	99.7	69	133				
1,1-Dichloroethene	25.190	1.0	25.00	0	101	68	130				
1,1-Dichloropropene	23.660	1.0	25.00	0	94.6	73	132				
1,2,3-Trichlorobenzene	27.420	1.0	25.00	0	110	67	137				
1,2,3-Trichloropropane	23.880	1.0	25.00	0	95.5	73	124				
1,2,4-Trichlorobenzene	27.910	1.0	25.00	0	112	66	134				
1,2,4-Trimethylbenzene	28.810	1.0	25.00	0	115	74	132				
1,2-Dibromo-3-chloropropane	20.670	2.0	25.00	0	82.7	50	132				
1,2-Dibromoethane	25.060	1.0	25.00	0	100	80	121				
1,2-Dichlorobenzene	26.320	1.0	25.00	0	105	71	122				
1,2-Dichloroethane	25.800	0.50	25.00	0	103	69	132				
1,2-Dichloropropane	23.950	1.0	25.00	0	95.8	75	125				
1,3,5-Trimethylbenzene	27.790	1.0	25.00	0	111	74	131				
1,3-Dichlorobenzene	26.890	1.0	25.00	0	108	75	124				
1,3-Dichloropropane	26.180	1.0	25.00	0	105	73	126				
1,4-Dichlorobenzene	26.470	1.0	25.00	0	106	74	123				
2,2-Dichloropropane	17.580	1.0	25.00	0	70.3	69	137				
2-Butanone	272.210	10	250.0	0	109	49	136				
2-Chlorotoluene	27.170	1.0	25.00	0	109	73	126				
4-Chlorotoluene	26.110	1.0	25.00	0	104	74	128				
4-Isopropyltoluene	28.320	1.0	25.00	0	113	73	130				
4-Methyl-2-pentanone	262.460	10	250.0	0	105	58	134				
Acetone	327.710	10	250.0	0	131	40	135				
Acrolein	193.360	20	250.0	0	77.3	75	125				
Acrylonitrile	296.010	20	250.0	0	118	75	125				
Benzene	24.750	1.0	25.00	0	99.0	81	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: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110428LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 79856							
Client ID: LCSW	Batch ID: D111VW056	TestNo: EPA 8260B		SeqNo: 1261642							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	26.700	1.0	25.00	0	107	76	124				
Bromochloromethane	26.440	1.0	25.00	0	106	65	129				
Bromodichloromethane	21.810	1.0	25.00	0	87.2	76	121				
Bromoform	23.840	1.0	25.00	0	95.4	69	128				
Bromomethane	31.400	1.0	25.00	0	126	53	141				
Carbon disulfide	22.000	1.0	25.00	0	88.0	75	125				
Carbon tetrachloride	19.060	1.0	25.00	0	76.2	66	138				
Chlorobenzene	26.150	1.0	25.00	0	105	81	122				
Chloroethane	28.000	1.0	25.00	0	112	58	133				
Chloroform	26.270	1.0	25.00	0	105	69	128				
Chloromethane	23.150	1.0	25.00	0	92.6	56	131				
cis-1,2-Dichloroethene	26.500	1.0	25.00	0	106	72	126				
cis-1,3-Dichloropropene	22.960	1.0	25.00	0	91.8	69	131				
Dibromochloromethane	25.320	1.0	25.00	0	101	66	133				
Dibromomethane	25.770	1.0	25.00	0	103	76	125				
Dichlorodifluoromethane	23.720	1.0	25.00	0	94.9	53	153				
Ethylbenzene	25.980	1.0	25.00	0	104	73	127				
Freon-113	21.870	1.0	25.00	0	87.5	75	125				
Hexachlorobutadiene	27.090	1.0	25.00	0	108	67	131				
Isopropylbenzene	27.110	1.0	25.00	0	108	75	127				
m,p-Xylene	52.660	1.0	50.00	0	105	76	128				
Methylene chloride	23.590	5.0	25.00	0	94.4	63	137				
MTBE	23.180	1.0	25.00	0	92.7	65	123				
n-Butylbenzene	29.510	1.0	25.00	0	118	69	137				
n-Propylbenzene	26.700	1.0	25.00	0	107	72	129				
Naphthalene	26.570	1.0	25.00	0	106	54	138				
o-Xylene	25.410	1.0	25.00	0	102	80	121				
sec-Butylbenzene	27.370	1.0	25.00	0	109	72	127				
Styrene	26.130	1.0	25.00	0	105	65	134				
tert-Butylbenzene	26.730	1.0	25.00	0	107	70	129				

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: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110428LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: LCSW	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	27.090	1.0	25.00	0	108	66	128				
Toluene	23.710	2.5	25.00	0	94.8	77	122				
trans-1,2-Dichloroethene	26.240	1.0	25.00	0	105	63	137				
trans-1,3-Dichloropropene	22.570	1.0	25.00	0	90.3	59	135				
Trichloroethene	24.050	1.0	25.00	0	96.2	70	127				
Trichlorofluoromethane	27.520	1.0	25.00	0	110	57	129				
Vinyl chloride	25.280	1.0	25.00	0	101	50	134				
Xylenes, Total	78.070	2.0	75.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	24.760		25.00		99.0	72	119				
Surr: 4-Bromofluorobenzene	24.650		25.00		98.6	76	119				
Surr: Dibromofluoromethane	26.400		25.00		106	85	115				
Surr: Toluene-d8	24.700		25.00		98.8	81	120				

Sample ID: N005701-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: ZZZZZ	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	26.890	1.0	25.00	0	108	81	129				
1,1,1-Trichloroethane	19.050	1.0	25.00	0	76.2	67	132				
1,1,2,2-Tetrachloroethane	21.910	1.0	25.00	0	87.6	63	128				
1,1,2-Trichloroethane	23.850	1.0	25.00	0	95.4	75	125				
1,1-Dichloroethane	24.140	0.50	25.00	0	96.6	69	133				
1,1-Dichloroethene	24.150	1.0	25.00	0	96.6	68	130				
1,1-Dichloropropene	24.050	1.0	25.00	0	96.2	73	132				
1,2,3-Trichlorobenzene	26.400	1.0	25.00	0	106	67	137				
1,2,3-Trichloropropane	20.580	1.0	25.00	0	82.3	73	124				
1,2,4-Trichlorobenzene	28.620	1.0	25.00	0	114	66	134				
1,2,4-Trimethylbenzene	30.580	1.0	25.00	0	122	74	132				
1,2-Dibromo-3-chloropropane	17.970	2.0	25.00	0	71.9	50	132				
1,2-Dibromoethane	21.540	1.0	25.00	0	86.2	80	121				

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: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005701-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 79856
Client ID: ZZZZZZ	Batch ID: D111VW056	TestNo: EPA 8260B		SeqNo: 1261643
		Prep Date:		
		Analysis Date: 4/28/2011		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	26.650	1.0	25.00	0	107	71	122				
1,2-Dichloroethane	22.350	0.50	25.00	0	89.4	69	132				
1,2-Dichloropropane	23.580	1.0	25.00	0	94.3	75	125				
1,3,5-Trimethylbenzene	29.720	1.0	25.00	0.3400	118	74	131				
1,3-Dichlorobenzene	28.040	1.0	25.00	0	112	75	124				
1,3-Dichloropropane	23.340	1.0	25.00	0	93.4	73	126				
1,4-Dichlorobenzene	27.460	1.0	25.00	0	110	74	123				
2,2-Dichloropropane	16.920	1.0	25.00	0	67.7	69	137				S
2-Butanone	89.550	10	250.0	0	35.8	49	136				S
2-Chlorotoluene	28.940	1.0	25.00	0	116	73	126				
4-Chlorotoluene	27.680	1.0	25.00	0	111	74	128				
4-Isopropyltoluene	31.290	1.0	25.00	0.6300	123	73	130				
4-Methyl-2-pentanone	179.120	10	250.0	0	71.6	58	134				
Acetone	69.510	10	250.0	0	27.8	40	135				S
Acrolein	48.490	20	250.0	0	19.4	75	125				S
Acrylonitrile	223.880	20	250.0	0	89.6	75	125				
Benzene	39.640	1.0	25.00	12.73	108	81	122				
Bromobenzene	26.960	1.0	25.00	0	108	76	124				
Bromochloromethane	23.450	1.0	25.00	0	93.8	65	129				
Bromodichloromethane	20.650	1.0	25.00	0	82.6	76	121				
Bromoform	20.950	1.0	25.00	0	83.8	69	128				
Bromomethane	29.770	1.0	25.00	0	119	53	141				
Carbon disulfide	21.580	1.0	25.00	0	86.3	75	125				
Carbon tetrachloride	18.970	1.0	25.00	0	75.9	66	138				
Chlorobenzene	26.440	1.0	25.00	0	106	81	122				
Chloroethane	27.670	1.0	25.00	0	111	58	133				
Chloroform	24.110	1.0	25.00	0	96.4	69	128				
Chloromethane	23.380	1.0	25.00	0	93.5	56	131				
cis-1,2-Dichloroethene	25.050	1.0	25.00	0	100	72	126				
cis-1,3-Dichloropropene	22.190	1.0	25.00	0	88.8	69	131				

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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005701-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 79856
Client ID: ZZZZZZ	Batch ID: D111VW056	TestNo: EPA 8260B		SeqNo: 1261643
Prep Date:		Analysis Date: 4/28/2011		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	23.290	1.0	25.00	0	93.2	66	133				
Dibromomethane	22.770	1.0	25.00	0	91.1	76	125				
Dichlorodifluoromethane	23.580	1.0	25.00	0	94.3	53	153				
Ethylbenzene	51.230	1.0	25.00	20.46	123	73	127				
Freon-113	20.960	1.0	25.00	0	83.8	75	125				
Hexachlorobutadiene	29.020	1.0	25.00	0	116	67	131				
Isopropylbenzene	87.470	1.0	25.00	47.80	159	75	127				S
m,p-Xylene	60.820	1.0	50.00	5.240	111	76	128				
Methylene chloride	21.690	5.0	25.00	0	86.8	63	137				
MTBE	19.460	1.0	25.00	0	77.8	65	123				
n-Butylbenzene	40.150	1.0	25.00	6.370	135	69	137				
n-Propylbenzene	160.590	1.0	25.00	112.8	191	72	129				S
Naphthalene	76.510	1.0	25.00	58.46	72.2	54	138				
o-Xylene	26.860	1.0	25.00	0.5600	105	80	121				
sec-Butylbenzene	46.500	1.0	25.00	13.78	131	72	127				S
Styrene	25.740	1.0	25.00	0	103	65	134				
tert-Butylbenzene	30.050	1.0	25.00	1.220	115	70	129				
Tetrachloroethene	28.320	1.0	25.00	0	113	66	128				
Toluene	24.780	2.5	25.00	0.7000	96.3	77	122				
trans-1,2-Dichloroethene	24.710	1.0	25.00	0	98.8	63	137				
trans-1,3-Dichloropropene	20.460	1.0	25.00	0	81.8	59	135				
Trichloroethene	24.380	1.0	25.00	0	97.5	70	127				
Trichlorofluoromethane	26.740	1.0	25.00	0	107	57	129				
Vinyl chloride	25.220	1.0	25.00	0	101	50	134				
Xylenes, Total	87.680	2.0	75.00	5.800	109	75	125				
Surr: 1,2-Dichloroethane-d4	21.250		25.00		85.0	72	119				
Surr: 4-Bromofluorobenzene	24.920		25.00		99.7	76	119				
Surr: Dibromofluoromethane	24.230		25.00		96.9	85	115				
Surr: Toluene-d8	24.940		25.00		99.8	81	120				

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
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- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005701-001BMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: ZZZZZZ	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.980	1.0	25.00	0	104	81	129	26.89	3.44	20	
1,1,1-Trichloroethane	18.700	1.0	25.00	0	74.8	67	132	19.05	1.85	20	
1,1,2,2-Tetrachloroethane	22.350	1.0	25.00	0	89.4	63	128	21.91	1.99	20	
1,1,2-Trichloroethane	23.100	1.0	25.00	0	92.4	75	125	23.85	3.19	20	
1,1-Dichloroethane	23.170	0.50	25.00	0	92.7	69	133	24.14	4.10	20	
1,1-Dichloroethene	24.330	1.0	25.00	0	97.3	68	130	24.15	0.743	20	
1,1-Dichloropropene	23.650	1.0	25.00	0	94.6	73	132	24.05	1.68	20	
1,2,3-Trichlorobenzene	25.380	1.0	25.00	0	102	67	137	26.40	3.94	20	
1,2,3-Trichloropropane	21.270	1.0	25.00	0	85.1	73	124	20.58	3.30	20	
1,2,4-Trichlorobenzene	27.550	1.0	25.00	0	110	66	134	28.62	3.81	20	
1,2,4-Trimethylbenzene	29.810	1.0	25.00	0	119	74	132	30.58	2.55	20	
1,2-Dibromo-3-chloropropane	18.240	2.0	25.00	0	73.0	50	132	17.97	1.49	20	
1,2-Dibromoethane	21.150	1.0	25.00	0	84.6	80	121	21.54	1.83	20	
1,2-Dichlorobenzene	26.130	1.0	25.00	0	105	71	122	26.65	1.97	20	
1,2-Dichloroethane	20.710	0.50	25.00	0	82.8	69	132	22.35	7.62	20	
1,2-Dichloropropane	22.480	1.0	25.00	0	89.9	75	125	23.58	4.78	20	
1,3,5-Trimethylbenzene	29.050	1.0	25.00	0.3400	115	74	131	29.72	2.28	20	
1,3-Dichlorobenzene	27.540	1.0	25.00	0	110	75	124	28.04	1.80	20	
1,3-Dichloropropane	21.750	1.0	25.00	0	87.0	73	126	23.34	7.05	20	
1,4-Dichlorobenzene	26.610	1.0	25.00	0	106	74	123	27.46	3.14	20	
2,2-Dichloropropane	16.170	1.0	25.00	0	64.7	69	137	16.92	4.53	20	S
2-Butanone	81.780	10	250.0	0	32.7	49	136	89.55	9.07	20	S
2-Chlorotoluene	28.330	1.0	25.00	0	113	73	126	28.94	2.13	20	
4-Chlorotoluene	27.360	1.0	25.00	0	109	74	128	27.68	1.16	20	
4-Isopropyltoluene	30.430	1.0	25.00	0.6300	119	73	130	31.29	2.79	20	
4-Methyl-2-pentanone	167.590	10	250.0	0	67.0	58	134	179.1	6.65	20	
Acetone	56.400	10	250.0	0	22.6	40	135	69.51	20.8	20	SR
Acrolein	41.880	20	250.0	0	16.8	75	125	48.49	14.6	20	S
Acrylonitrile	169.570	20	250.0	0	67.8	75	125	223.9	27.6	20	SR
Benzene	38.240	1.0	25.00	12.73	102	81	122	39.64	3.60	20	

Qualifiers:

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- H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference

CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date:	
													TestCode: 8260_WP_SF	RunNo: 79856
													Analysis Date: 4/28/2011	SeqNo: 1261644
Bromobenzene	26.790	1.0	25.00	0		107	76	124	26.96	0.633	20			
Bromochloromethane	22.490	1.0	25.00	0		90.0	65	129	23.45	4.18	20			
Bromodichloromethane	19.670	1.0	25.00	0		78.7	76	121	20.65	4.86	20			
Bromoform	20.750	1.0	25.00	0		83.0	69	128	20.95	0.959	20			
Bromomethane	30.640	1.0	25.00	0		123	53	141	29.77	2.88	20			
Carbon disulfide	21.800	1.0	25.00	0		87.2	75	125	21.58	1.01	20			
Carbon tetrachloride	18.910	1.0	25.00	0		75.6	66	138	18.97	0.317	20			
Chlorobenzene	26.050	1.0	25.00	0		104	81	122	26.44	1.49	20			
Chloroethane	28.060	1.0	25.00	0		112	58	133	27.67	1.40	20			
Chloroform	24.020	1.0	25.00	0		96.1	69	128	24.11	0.374	20			
Chloromethane	23.640	1.0	25.00	0		94.6	56	131	23.38	1.11	20			
cis-1,2-Dichloroethene	24.500	1.0	25.00	0		98.0	72	126	25.05	2.22	20			
cis-1,3-Dichloropropene	20.910	1.0	25.00	0		83.6	69	131	22.19	5.94	20			
Dibromochloromethane	21.830	1.0	25.00	0		87.3	66	133	23.29	6.47	20			
Dibromomethane	21.140	1.0	25.00	0		84.6	76	125	22.77	7.42	20			
Dichlorodifluoromethane	23.570	1.0	25.00	0		94.3	53	153	23.58	0.0424	20			
Ethylbenzene	49.000	1.0	25.00	20.46		114	73	127	51.23	4.45	20			
Freon-113	20.430	1.0	25.00	0		81.7	75	125	20.96	2.56	20			
Hexachlorobutadiene	27.940	1.0	25.00	0		112	67	131	29.02	3.79	20			
Isopropylbenzene	83.660	1.0	25.00	47.80		143	75	127	87.47	4.45	20	S		
m,p-Xylene	59.100	1.0	50.00	5.240		108	76	128	60.82	2.87	20			
Methylene chloride	21.540	5.0	25.00	0		86.2	63	137	21.69	0.694	20			
MTBE	17.840	1.0	25.00	0		71.4	65	123	19.46	8.69	20			
n-Butylbenzene	38.500	1.0	25.00	6.370		129	69	137	40.15	4.20	20			
n-Propylbenzene	153.620	1.0	25.00	112.8		163	72	129	160.6	4.44	20	S		
Naphthalene	77.270	1.0	25.00	58.46		75.2	54	138	76.51	0.988	20			
o-Xylene	26.150	1.0	25.00	0.5600		102	80	121	26.86	2.68	20			
sec-Butylbenzene	44.840	1.0	25.00	13.78		124	72	127	46.50	3.63	20			
Styrene	25.000	1.0	25.00	0		100	65	134	25.74	2.92	20			
tert-Butylbenzene	29.790	1.0	25.00	1.220		114	70	129	30.05	0.869	20			

Qualifiers:

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 - ND Not Detected at the Reporting Limit
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- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005706
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005701-001BMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: ZZZZZZ	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	27.800	1.0	25.00	0	111	66	128	28.32	1.85	20	
Toluene	24.990	2.5	25.00	0.7000	97.2	77	122	24.78	0.844	20	
trans-1,2-Dichloroethene	24.820	1.0	25.00	0	99.3	63	137	24.71	0.444	20	
trans-1,3-Dichloropropene	19.560	1.0	25.00	0	78.2	59	135	20.46	4.50	20	
Trichloroethene	24.150	1.0	25.00	0	96.6	70	127	24.38	0.948	20	
Trichlorofluoromethane	25.980	1.0	25.00	0	104	57	129	26.74	2.88	20	
Vinyl chloride	25.300	1.0	25.00	0	101	50	134	25.22	0.317	20	
Xylenes, Total	85.250	2.0	75.00	5.800	106	75	125	87.68	2.81	20	
Surr: 1,2-Dichloroethane-d4	20.790		25.00		83.2	72	119		0		
Surr: 4-Bromofluorobenzene	25.290		25.00		101	76	119		0		
Surr: Dibromofluoromethane	24.480		25.00		97.9	85	115		0		
Surr: Toluene-d8	25.900		25.00		104	81	120		0		

Sample ID: D110428MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: PBW	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261645						
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:

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- 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: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110428MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: PBW	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261645						
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
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
DO	Surrogate Diluted Out	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: N005706
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110428MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 79856						
Client ID: PBW	Batch ID: D111VW056	TestNo: EPA 8260B		Analysis Date: 4/28/2011	SeqNo: 1261645						
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	0.350	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	24.860		25.00		99.4	72	119				
Surr: 4-Bromofluorobenzene	26.020		25.00		104	76	119				
Surr: Dibromofluoromethane	23.920		25.00		95.7	85	115				
Surr: Toluene-d8	26.380		25.00		106	81	120				

Qualifiers:

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CHAIN OF CUSTODY RECORD

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]

DATE: 04-26-11
 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 TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS: Report to 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.		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) (SIGNATURE):		P.O. NO.: QUOTE NO.: LAB USE ONLY: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
REQUESTED ANALYSIS							
LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATERIAL	NO. OF CONT.	COMMENTS Temperature* = <u>54.2°C</u> (Temp. as sampled*) Monthly
	INF- 04-26	Influent	04-26-11	145	WWW	7	X TPH - g (8015M) X TPH - fp (8015M) X VOCs, Full List (8260B)
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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: 4/27/2011 Workorder: N005706
 Rep sample Temp (Deg C): 2.2 IR Gun ID: IR#1
 Temp Blank: Yes No
 Carrier name: ATL
 Last 4 digits of Tracking No.: Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

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

Comments:

Checklist Completed By GG 4/27/11

Reviewed By: 4/27/11

May 04, 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.: N005698

RE: SFPP - Norwalk Site

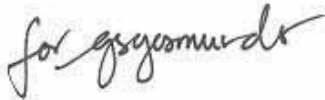
Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on April 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

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



*Advanced Technology
Laboratories, Inc.*

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

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005698

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 .

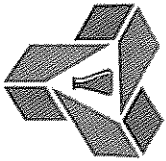


CHAIN OF CUSTODY RECORD

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]

DATE: 04.26.11
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Definbough ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site		P.O. NO.:		
TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.dye@kindermorgan.com		PROJECT CONTACT: James Dye SAMPLER(S): (SIGNATURE)		QUOTE NO.:		
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):		REQUESTED ANALYSIS: ASTM-1946 (O2/Argon, CO2, CH4)		LAB USE ONLY: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
SPECIAL INSTRUCTIONS: RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / Report to D. Jablonski/CH2M HILL., cc: KMEP Direct Bill KMEP/SFPP - Steve Definbough-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		COMMENTS: Monthly sample				
LAB USE ONLY: VIN-04-26	SAMPLE ID: VIN-04-26	LOCATION/DESCRIPTION: Header	SAMPLING DATE: 04.26.11	SAMPLING TIME: 1018	MAT. RIX: Air	NO. OF CONT.: 4
Relinquished by: (Signature)		Received by: (Signature)		Date: 4/26/11	Time: 12:25	
Relinquished by: (Signature)		Received by: (Signature)		Date: 4/26/11	Time: 12:53	
Relinquished by: (Signature)		Received by: (Signature)		Date:	Time:	



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atglab.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:

James Pye

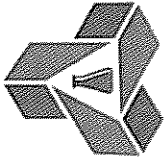
26-Apr-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N005698-001A / VINP-04-26	Air	4/26/2011 10:18:00 AM	BAG	1	1

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

Please use PO#: N005698 Please fax results by: 5 day TAT.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	4/26/11		
Relinquished by:		Received 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:

James Dye

26-Apr-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
N005698-001B / VINP-04-26	Air	4/26/2011 10:18:00 AM	BAG	ASTM D1946 1

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

Please use PO#: N005698

Please fax results by: 5 day TAT. ASTM-1946 O2/Argon, CO2, CH4

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>		<i>[Signature]</i>	4/26/11
Relinquished by:		Received by:	

April 29, 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.: 117535

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on April 26, 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,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 29-Apr-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005698-001A / VINP-04-26
Lab Order: 117535 **Collection Date:** 4/26/2011 10:18:00 AM
Project: **Matrix:** AIR
Lab ID: 117535-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110427A	QC Batch: W11A046	PrepDate:	Analyst: BB		
1,1,1-Trichloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,1,1,2-Tetrachloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,1,1,2-Trichloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,1-Dichloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,1-Dichloroethene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2,4-Trichlorobenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2,4-Trimethylbenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2-Dibromoethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2-Dichlorobenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2-Dichloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,2-Dichloropropane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,3,5-Trimethylbenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,3-Dichlorobenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
1,4-Dichlorobenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
2-Butanone	3.8	1.2	ppbv	5	4/27/2011 03:32 PM
2-Hexanone	ND	1.2	ppbv	5	4/27/2011 03:32 PM
4-Ethyl Toluene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
4-Methyl-2-pentanone	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Acetone	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Benzene	16	1.2	ppbv	5	4/27/2011 03:32 PM
Benzyl chloride	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Bromodichloromethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Bromoform	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Bromomethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Carbon disulfide	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Carbon tetrachloride	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Chlorobenzene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Chloroethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Chloroform	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Chloromethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
cis-1,2-Dichloroethene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
cis-1,3-Dichloropropene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Dibromochloromethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Dichlorodifluoromethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Dichlorotetrafluoroethane	ND	1.2	ppbv	5	4/27/2011 03:32 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 29-Apr-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005698-001A / VINP-04-26
Lab Order: 117535 **Collection Date:** 4/26/2011 10:18:00 AM
Project: **Matrix:** AIR
Lab ID: 117535-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110427A	QC Batch:	W11A046	PrepDate:	Analyst: BB
Ethylbenzene	2.4	1.2	ppbv	5	4/27/2011 03:32 PM
Freon-113	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Hexachlorobutadiene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
m,p-Xylene	6.2	1.2	ppbv	5	4/27/2011 03:32 PM
MTBE	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Methylene chloride	ND	1.2	ppbv	5	4/27/2011 03:32 PM
o-Xylene	1.5	1.2	ppbv	5	4/27/2011 03:32 PM
Styrene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Tetrachloroethene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Toluene	8.8	1.2	ppbv	5	4/27/2011 03:32 PM
trans-1,2-Dichloroethene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
trans-1,3-Dichloropropene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Trichloroethene	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Trichlorofluoromethane	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Vinyl acetate	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Vinyl chloride	ND	1.2	ppbv	5	4/27/2011 03:32 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%REC	5	4/27/2011 03:32 PM

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110426A	QC Batch:	W11A045	PrepDate:	Analyst: BB
Gasoline	1.9	0.20	ppmv	10	4/26/2011 04:32 PM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	10	4/26/2011 04:32 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Advanced Technology Laboratory-Las Vegas
 Work Order: 117535

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Project:

Sample ID: LCS-W11A045	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO15		Analysis Date: 4/26/2011	SeqNo: 2156488						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.800	0.25	2.000	0	90.0	70	130				
Benzene	2.210	0.25	2.000	0	110	70	130				
Chloroform	1.810	0.25	2.000	0	90.5	70	130				
m,p-Xylene	4.690	0.25	4.000	0	117	70	130				
o-Xylene	2.440	0.25	2.000	0	122	70	130				
Tetrachloroethene	2.090	0.25	2.000	0	104	70	130				
Toluene	2.070	0.25	2.000	0	104	70	130				
Trichloroethene	2.040	0.25	2.000	0	102	70	130				
Vinyl chloride	1.810	0.25	2.000	0	90.5	70	130				
Surr: 4-Bromofluorobenzene	2.500		2.500		100	70	130				

Sample ID: LCSD-W11A045	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO15		Analysis Date: 4/26/2011	SeqNo: 2156489						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.810	0.25	2.000	0	90.5	70	130	1.800	0.554	20	
Benzene	2.200	0.25	2.000	0	110	70	130	2.210	0.454	20	
Chloroform	1.800	0.25	2.000	0	90.0	70	130	1.810	0.554	20	
m,p-Xylene	4.500	0.25	4.000	0	112	70	130	4.690	4.13	20	
o-Xylene	2.300	0.25	2.000	0	115	70	130	2.440	5.91	20	
Tetrachloroethene	1.970	0.25	2.000	0	98.5	70	130	2.090	5.91	20	
Toluene	2.020	0.25	2.000	0	101	70	130	2.070	2.44	20	
Trichloroethene	2.010	0.25	2.000	0	101	70	130	2.040	1.48	20	
Vinyl chloride	1.750	0.25	2.000	0	87.5	70	130	1.810	3.37	20	
Surr: 4-Bromofluorobenzene	2.490		2.500		99.6	70	130		0	0	

Qualifiers:

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

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A045	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	RunNo: 132373							
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO15		SeqNo: 2156490							
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
 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: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A045	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO15		Analysis Date: 4/26/2011	SeqNo: 2156490						
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	2.470		2.500		98.8	70	130				

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: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: LCS-W11A046	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132386						
Client ID: ZZZZZZ	Batch ID: W11A046	TestNo: EPA TO15		Analysis Date: 4/27/2011	SeqNo: 2156630						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.830	0.25	2.000	0	91.5	70	130				
Benzene	2.140	0.25	2.000	0	107	70	130				
Chloroform	1.880	0.25	2.000	0	94.0	70	130				
m,p-Xylene	4.480	0.25	4.000	0	112	70	130				
o-Xylene	2.330	0.25	2.000	0	116	70	130				
Tetrachloroethene	1.950	0.25	2.000	0	97.5	70	130				
Toluene	2.010	0.25	2.000	0	101	70	130				
Trichloroethene	1.980	0.25	2.000	0	99.0	70	130				
Vinyl chloride	1.820	0.25	2.000	0	91.0	70	130				
Surr: 4-Bromofluorobenzene	2.470		2.500		98.8	70	130				

Sample ID: LCSD-W11A046	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132386						
Client ID: ZZZZZZ	Batch ID: W11A046	TestNo: EPA TO15		Analysis Date: 4/27/2011	SeqNo: 2156631						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.820	0.25	2.000	0	91.0	70	130	1.830	0.548	20	
Benzene	2.180	0.25	2.000	0	109	70	130	2.140	1.85	20	
Chloroform	1.850	0.25	2.000	0	92.5	70	130	1.880	1.61	20	
m,p-Xylene	4.520	0.25	4.000	0	113	70	130	4.480	0.889	20	
o-Xylene	2.360	0.25	2.000	0	118	70	130	2.330	1.28	20	
Tetrachloroethene	2.030	0.25	2.000	0	102	70	130	1.950	4.02	20	
Toluene	2.020	0.25	2.000	0	101	70	130	2.010	0.496	20	
Trichloroethene	2.030	0.25	2.000	0	102	70	130	1.980	2.49	20	
Vinyl chloride	1.800	0.25	2.000	0	90.0	70	130	1.820	1.10	20	
Surr: 4-Bromofluorobenzene	2.530		2.500		101	70	130		0	0	

Sample ID: MB-W11A046	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132386						
Client ID: ZZZZZZ	Batch ID: W11A046	TestNo: EPA TO15		Analysis Date: 4/27/2011	SeqNo: 2156632						
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
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A046	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132386						
Client ID: ZZZZZ	Batch ID: W11A046	TestNo: EPA TO15		Analysis Date: 4/27/2011	SeqNo: 2156632						
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
 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: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A046	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 132386						
Client ID: ZZZZZ	Batch ID: W11A046	TestNo: EPA TO15		Analysis Date: 4/27/2011	SeqNo: 2156632						
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	2.340		2.500		93.6	70	130				

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



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

ANALYTICAL QC SUMMARY REPORT

CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 117535
Project:

TestCode: TO3_GAS_CH2

Sample ID: MB-W11A045	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO3		Analysis Date: 4/26/2011	SeqNo: 2156504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline											
Surr: 4-Bromofluorobenzene											
	ND	0.020			88.4	70	130				
Sample ID: LCS-W11A045	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO3		Analysis Date: 4/26/2011	SeqNo: 2156505						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline											
Surr: 4-Bromofluorobenzene											
	0.179	0.020	0.2000	0	89.4	70	130				
	0.003		0.002500		107	70	130				
Sample ID: LCSD-W11A045	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO3		Analysis Date: 4/26/2011	SeqNo: 2156506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline											
Surr: 4-Bromofluorobenzene											
	0.179	0.020	0.2000	0	89.3	70	130	0.1788	0.140	20	
	0.003		0.002500		103	70	130		0	0	
Sample ID: LCSD-W11A045	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 132373						
Client ID: ZZZZZ	Batch ID: W11A045	TestNo: EPA TO3		Analysis Date: 4/26/2011	SeqNo: 2156506						
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
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: Glen S. Gesmundo [glen@atl-labs.com]
Sent: Tuesday, April 26, 2011 1:56 PM
To: Fernando Diwa; Marlon Cartin
Cc: Rachelle Arada; Jojo Tenorio; Carmen Aguila
Subject: RE: COC for CH2M HILL (Air Samples)
Attachments: N005698 subCOCATL.pdf

Please see attached sub COC. According to Marlon, Air Lab will pick up the sample for ASTM 1946.

Thanks.
Glen

From: Fernando Diwa [mailto:fernando@atiglobal.com]
Sent: Tuesday, April 26, 2011 1:16 PM
To: Marlon Cartin
Cc: Rachelle Arada; Jojo Tenorio; Carmen Aguila; Glen S. Gesmundo
Subject: COC for CH2M HILL (Air Samples)

Hi Marlon,

Enclosed is a copy of COC for the air samples we received for CH2M HILL.

Regards,

Ronnie



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atfglobal.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: *James Pye*

26-Apr-11

Requested Tests

Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	EPA TO3
117596-007 N005698-001A / VINF-04-26	Air	4/26/2011 10:18:00 AM	BAG	1	1

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

Please use PO#: N005698

Please fax results by: 5 day TAT.

Date/Time

4/26/11

Relinquished by:

Received by:

Date/Time

4/26/11 15:20

Relinquished by:

Received by:

May 4, 2011

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



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

LABORATORY TEST RESULTS

Project Reference: SFPP-Norwalk Site
ATL Project Reference: N005698
Lab Number: C042701-01


Enclosed are results for sample(s) received 4/27/11 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).

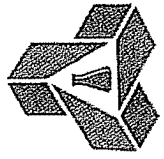
ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,


Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

C042701-01



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: *James Dye*

26-Apr-11

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N005698-001B / VINP-04-26	Air	4/26/2011 10:18:00 AM	BAG	1	

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

Please use PO#: N005698

Please fax results by: 5 day TAT. ASTM-1946 O2/Argon.CO2.CH4

Date/Time

April 11

Relinquished by:

[Signature]

Date/Time

Received by: *Juan De la Osa*

Received by:

4/26/2011 11:11
DATE/TIME

May 24, 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.: N005822

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on May 17, 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

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005822

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Sample was 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.

Sample was 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.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005822
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005822-001A	INF-05-17	Wastewater	5/17/2011 1:20:00 PM	5/17/2011	
N005822-001B	INF-05-17	Wastewater	5/17/2011 1:20:00 PM	5/17/2011	
N005822-001C	INF-05-17	Wastewater	5/17/2011 1:20:00 PM	5/17/2011	



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-May-11

CLIENT: CH2M HILL
Lab Order: N005822
Project: SFPP - Norwalk Site
Lab ID: N005822-001

Client Sample ID: INF-05-17
Collection Date: 5/17/2011 1:20:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_110523A	QC Batch: 36940					PrepDate: 5/20/2011	Analyst: admin
TPH-Fuel Product	1700	13	50		ug/L	1	5/23/2011 03:58 PM
Surr: Octacosane	97.5	0	26-152		%REC	1	5/23/2011 03:58 PM
Surr: p-Terphenyl	97.7	0	57-132		%REC	1	5/23/2011 03:58 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_110519B	QC Batch: E11VW023					PrepDate:	Analyst: QBM
TPH-Gasoline	3300	6.0	100		µg/L	1	5/19/2011
Surr: Chlorobenzene - d5	96.8	0	74-138		%REC	1	5/19/2011

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110519A	QC Batch: D11VW063					PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		µg/L	1	5/19/2011 12:53 PM
1,1,1-Trichloroethane	ND	0.068	1.0		µg/L	1	5/19/2011 12:53 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		µg/L	1	5/19/2011 12:53 PM
1,1,2-Trichloroethane	ND	0.083	1.0		µg/L	1	5/19/2011 12:53 PM
1,1-Dichloroethane	ND	0.099	0.50		µg/L	1	5/19/2011 12:53 PM
1,1-Dichloroethene	ND	0.094	1.0		µg/L	1	5/19/2011 12:53 PM
1,1-Dichloropropene	ND	0.082	1.0		µg/L	1	5/19/2011 12:53 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		µg/L	1	5/19/2011 12:53 PM
1,2,3-Trichloropropane	ND	0.12	1.0		µg/L	1	5/19/2011 12:53 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		µg/L	1	5/19/2011 12:53 PM
1,2,4-Trimethylbenzene	73	0.095	1.0		µg/L	1	5/19/2011 12:53 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	5/19/2011 12:53 PM
1,2-Dibromoethane	ND	0.14	1.0		µg/L	1	5/19/2011 12:53 PM
1,2-Dichlorobenzene	ND	0.070	1.0		µg/L	1	5/19/2011 12:53 PM
1,2-Dichloroethane	ND	0.17	0.50		µg/L	1	5/19/2011 12:53 PM
1,2-Dichloropropane	ND	0.085	1.0		µg/L	1	5/19/2011 12:53 PM
1,3,5-Trimethylbenzene	22	0.087	1.0		µg/L	1	5/19/2011 12:53 PM
1,3-Dichlorobenzene	ND	0.090	1.0		µg/L	1	5/19/2011 12:53 PM
1,3-Dichloropropane	ND	0.074	1.0		µg/L	1	5/19/2011 12:53 PM
1,4-Dichlorobenzene	ND	0.092	1.0		µg/L	1	5/19/2011 12:53 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	5/19/2011 12:53 PM
2-Butanone	ND	1.0	10		µg/L	1	5/19/2011 12:53 PM
2-Chlorotoluene	ND	0.080	1.0		µg/L	1	5/19/2011 12:53 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 interferenc
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out



*Advanced Technology
Laboratories, Inc.*

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-May-11

CLIENT: CH2M HILL
Lab Order: N005822
Project: SFPP - Norwalk Site
Lab ID: N005822-001

Client Sample ID: INF-05-17
Collection Date: 5/17/2011 1:20:00 PM
Matrix: WASTEWATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110519A	QC Batch: D11VW063	PrepDate:	Analyst: QBM
4-Chlorotoluene	ND 0.10	1.0	µg/L 1 5/19/2011 12:53 PM
4-Isopropyltoluene	1.5 0.080	1.0	µg/L 1 5/19/2011 12:53 PM
4-Methyl-2-pentanone	ND 0.76	10	µg/L 1 5/19/2011 12:53 PM
Acetone	4.2 1.6	10	J µg/L 1 5/19/2011 12:53 PM
Acrolein	ND 4.3	20	µg/L 1 5/19/2011 12:53 PM
Acrylonitrile	ND 0.61	20	µg/L 1 5/19/2011 12:53 PM
Benzene	3600 7.5	100	µg/L 100 5/19/2011 12:08 PM
Bromobenzene	ND 0.082	1.0	µg/L 1 5/19/2011 12:53 PM
Bromochloromethane	ND 0.15	1.0	µg/L 1 5/19/2011 12:53 PM
Bromodichloromethane	ND 0.063	1.0	µg/L 1 5/19/2011 12:53 PM
Bromoform	ND 0.086	1.0	µg/L 1 5/19/2011 12:53 PM
Bromomethane	ND 0.13	1.0	µg/L 1 5/19/2011 12:53 PM
Carbon disulfide	0.46 0.054	1.0	J µg/L 1 5/19/2011 12:53 PM
Carbon tetrachloride	ND 0.10	1.0	µg/L 1 5/19/2011 12:53 PM
Chlorobenzene	ND 0.092	1.0	µg/L 1 5/19/2011 12:53 PM
Chloroethane	ND 0.14	1.0	µg/L 1 5/19/2011 12:53 PM
Chloroform	ND 0.058	1.0	µg/L 1 5/19/2011 12:53 PM
Chloromethane	ND 0.054	1.0	µg/L 1 5/19/2011 12:53 PM
cis-1,2-Dichloroethene	ND 0.11	1.0	µg/L 1 5/19/2011 12:53 PM
cis-1,3-Dichloropropene	ND 0.10	1.0	µg/L 1 5/19/2011 12:53 PM
Dibromochloromethane	ND 0.061	1.0	µg/L 1 5/19/2011 12:53 PM
Dibromomethane	ND 0.15	1.0	µg/L 1 5/19/2011 12:53 PM
Dichlorodifluoromethane	ND 0.12	1.0	µg/L 1 5/19/2011 12:53 PM
Ethylbenzene	82 0.051	1.0	µg/L 1 5/19/2011 12:53 PM
Freon-113	ND 0.080	1.0	µg/L 1 5/19/2011 12:53 PM
Hexachlorobutadiene	ND 0.17	1.0	µg/L 1 5/19/2011 12:53 PM
Isopropylbenzene	14 0.057	1.0	µg/L 1 5/19/2011 12:53 PM
m,p-Xylene	220 0.17	1.0	µg/L 1 5/19/2011 12:53 PM
Methylene chloride	ND 0.10	5.0	µg/L 1 5/19/2011 12:53 PM
MTBE	240 0.89	10	µg/L 10 5/19/2011 12:30 PM
n-Butylbenzene	2.3 0.082	1.0	µg/L 1 5/19/2011 12:53 PM
n-Propylbenzene	30 0.087	1.0	µg/L 1 5/19/2011 12:53 PM
Naphthalene	76 0.056	1.0	µg/L 1 5/19/2011 12:53 PM
o-Xylene	78 0.077	1.0	µg/L 1 5/19/2011 12:53 PM
sec-Butylbenzene	2.3 0.098	1.0	µg/L 1 5/19/2011 12:53 PM
Styrene	ND 0.072	1.0	µg/L 1 5/19/2011 12:53 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 interferenc
Results are wet unless otherwise specified DO Surrogate Diluted Out



*Advanced Technology
Laboratories, Inc.*

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

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 24-May-11

CLIENT: CH2M HILL
Lab Order: N005822
Project: SFPP - Norwalk Site
Lab ID: N005822-001

Client Sample ID: INF-05-17
Collection Date: 5/17/2011 1:20:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110519A	QC Batch: D11VW063	PrepDate:	Analyst: QBM			
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	5/19/2011 12:53 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	5/19/2011 12:53 PM
Toluene	180	0.12	2.5	µg/L	1	5/19/2011 12:53 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	5/19/2011 12:53 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	5/19/2011 12:53 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	5/19/2011 12:53 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	5/19/2011 12:53 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	5/19/2011 12:53 PM
Xylenes, Total	300	1.5	2.0	µg/L	1	5/19/2011 12:53 PM
Surr: 1,2-Dichloroethane-d4	97.8	0	72-119	%REC	1	5/19/2011 12:53 PM
Surr: 1,2-Dichloroethane-d4	93.5	0	72-119	%REC	10	5/19/2011 12:30 PM
Surr: 1,2-Dichloroethane-d4	91.3	0	72-119	%REC	100	5/19/2011 12:08 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	5/19/2011 12:53 PM
Surr: 4-Bromofluorobenzene	108	0	76-119	%REC	10	5/19/2011 12:30 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	100	5/19/2011 12:08 PM
Surr: Dibromofluoromethane	95.0	0	85-115	%REC	1	5/19/2011 12:53 PM
Surr: Dibromofluoromethane	98.8	0	85-115	%REC	10	5/19/2011 12:30 PM
Surr: Dibromofluoromethane	95.4	0	85-115	%REC	100	5/19/2011 12:08 PM
Surr: Toluene-d8	104	0	81-120	%REC	1	5/19/2011 12:53 PM
Surr: Toluene-d8	108	0	81-120	%REC	10	5/19/2011 12:30 PM
Surr: Toluene-d8	108	0	81-120	%REC	100	5/19/2011 12:08 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



*Advanced Technology
Laboratories, Inc.*

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL

Work Order: N005822

Project: SFPP - Norwalk Site

TestCode: 8015_W_FP_SFPP

Sample ID: LCS-36940_DRO	SampType: LCS	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 5/20/2011	RunNo: 80135						
Client ID: LCSW	Batch ID: 36940	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 5/23/2011	SeqNo: 1270360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	754.696	50	1000	0	75.5	61	143				
Surr: Octacosane	68.954		80.00		86.2	26	152				
Surr: p-Terphenyl	69.570		80.00		87.0	57	132				

Sample ID: LCSD-36940_DRO	SampType: LCSD	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 5/20/2011	RunNo: 80135						
Client ID: LCSS02	Batch ID: 36940	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 5/23/2011	SeqNo: 1270361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	830.435	50	1000	0	83.0	61	143	754.7	9.56	30	
Surr: Octacosane	76.174		80.00		95.2	26	152		0		
Surr: p-Terphenyl	77.180		80.00		96.5	57	132		0		

Sample ID: MB-36940	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 5/20/2011	RunNo: 80135						
Client ID: PBW	Batch ID: 36940	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 5/23/2011	SeqNo: 1270362						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	20.341	50									J
Surr: Octacosane	94.861		80.00		119	26	152				
Surr: p-Terphenyl	90.690		80.00		113	57	132				

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

TestCode: 8015_W_GSFPP

Sample ID: E110519LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80110						
Client ID: LCSW	Batch ID: E11VW023	TestNo: EPA 8015B		Analysis Date: 5/19/2011	SeqNo: 1269525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	923.000	100	1000	0	92.3	67	136				
Surr: Chlorobenzene - d5	49.404		50.00		98.8	74	138				

Sample ID: E110519MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80110						
Client ID: PBW	Batch ID: E11VW023	TestNo: EPA 8015B		Analysis Date: 5/19/2011	SeqNo: 1269526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100			97.5	74	138				
Surr: Chlorobenzene - d5	48.733		50.00								

Sample ID: N005822-001BMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80110						
Client ID: ZZZZZ	Batch ID: E11VW023	TestNo: EPA 8015B		Analysis Date: 5/19/2011	SeqNo: 1269527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	4342.000	100	1000	3304	104	67	136				
Surr: Chlorobenzene - d5	55.437		50.00		111	74	138				

Sample ID: N005822-001BMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80110						
Client ID: ZZZZZ	Batch ID: E11VW023	TestNo: EPA 8015B		Analysis Date: 5/19/2011	SeqNo: 1269528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	4216.000	100	1000	3304	91.2	67	136	4342	2.94	30	
Surr: Chlorobenzene - d5	56.605		50.00		113	74	138		0	0	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110519LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: LCSW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	26.680	1.0	25.00	0	107	81	129				
1,1,1-Trichloroethane	23.280	1.0	25.00	0	93.1	67	132				
1,1,2,2-Tetrachloroethane	25.770	1.0	25.00	0	103	63	128				
1,1,2-Trichloroethane	24.090	1.0	25.00	0	96.4	75	125				
1,1-Dichloroethane	24.360	0.50	25.00	0	97.4	69	133				
1,1-Dichloroethene	25.100	1.0	25.00	0	100	68	130				
1,1-Dichloropropene	23.960	1.0	25.00	0	95.8	73	132				
1,2,3-Trichlorobenzene	24.910	1.0	25.00	0	99.6	67	137				
1,2,3-Trichloropropane	25.410	1.0	25.00	0	102	73	124				
1,2,4-Trichlorobenzene	25.860	1.0	25.00	0	103	66	134				
1,2,4-Trimethylbenzene	26.120	1.0	25.00	0	104	74	132				
1,2-Dibromo-3-chloropropane	23.660	2.0	25.00	0	94.6	50	132				
1,2-Dibromoethane	24.570	1.0	25.00	0	98.3	80	121				
1,2-Dichlorobenzene	25.150	1.0	25.00	0	101	71	122				
1,2-Dichloroethane	23.470	0.50	25.00	0	93.9	69	132				
1,2-Dichloropropane	23.150	1.0	25.00	0	92.6	75	125				
1,3,5-Trimethylbenzene	26.330	1.0	25.00	0	105	74	131				
1,3-Dichlorobenzene	25.590	1.0	25.00	0	102	75	124				
1,3-Dichloropropane	24.620	1.0	25.00	0	98.5	73	126				
1,4-Dichlorobenzene	25.520	1.0	25.00	0	102	74	123				
2,2-Dichloropropane	23.420	1.0	25.00	0	93.7	69	137				
2-Butanone	221.940	10	250.0	0	88.8	49	136				
2-Chlorotoluene	26.430	1.0	25.00	0	106	73	126				
4-Chlorotoluene	26.000	1.0	25.00	0	104	74	128				
4-Isopropyltoluene	26.550	1.0	25.00	0	106	73	130				
4-Methyl-2-pentanone	240.870	10	250.0	0	96.3	58	134				
Acetone	220.510	10	250.0	0	88.2	40	135				
Acrolein	202.960	20	250.0	0	81.2	75	125				
Acrylonitrile	204.900	20	250.0	0	82.0	75	125				
Benzene	24.620	1.0	25.00	0	98.5	81	122				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110519LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: LCSW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromobenzene	25.240	1.0	25.00	0	101	76	124				
Bromochloromethane	24.550	1.0	25.00	0	98.2	65	129				
Bromodichloromethane	25.060	1.0	25.00	0	100	76	121				
Bromoform	21.480	1.0	25.00	0	85.9	69	128				
Bromomethane	25.170	1.0	25.00	0	101	53	141				
Carbon disulfide	23.530	1.0	25.00	0	94.1	75	125				
Carbon tetrachloride	20.130	1.0	25.00	0	80.5	66	138				
Chlorobenzene	25.040	1.0	25.00	0	100	81	122				
Chloroethane	26.310	1.0	25.00	0	105	58	133				
Chloroform	24.140	1.0	25.00	0	96.6	69	128				
Chloromethane	22.780	1.0	25.00	0	91.1	56	131				
cis-1,2-Dichloroethene	24.120	1.0	25.00	0	96.5	72	126				
cis-1,3-Dichloropropene	23.960	1.0	25.00	0	95.8	69	131				
Dibromochloromethane	22.860	1.0	25.00	0	91.4	66	133				
Dibromomethane	24.460	1.0	25.00	0	97.8	76	125				
Dichlorodifluoromethane	24.000	1.0	25.00	0	96.0	53	153				
Ethylbenzene	25.500	1.0	25.00	0	102	73	127				
Freon-113	22.880	1.0	25.00	0	91.5	75	125				
Hexachlorobutadiene	25.850	1.0	25.00	0	103	67	131				
Isopropylbenzene	26.490	1.0	25.00	0	106	75	127				
m,p-Xylene	52.990	1.0	50.00	0	106	76	128				
Methylene chloride	22.490	5.0	25.00	0	90.0	63	137				
MTBE	21.680	1.0	25.00	0	86.7	65	123				
n-Butylbenzene	26.840	1.0	25.00	0	107	69	137				
n-Propylbenzene	26.680	1.0	25.00	0	107	72	129				
Naphthalene	24.250	1.0	25.00	0	97.0	54	138				
o-Xylene	25.420	1.0	25.00	0	102	80	121				
sec-Butylbenzene	26.180	1.0	25.00	0	105	72	127				
Styrene	25.390	1.0	25.00	0	102	65	134				
tert-Butylbenzene	25.830	1.0	25.00	0	103	70	129				

Qualifiers:

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: D110519LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: LCSW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrachloroethene	26.530	1.0	25.00	0	106	66	128				
Toluene	24.810	2.5	25.00	0	99.2	77	122				
trans-1,2-Dichloroethene	23.980	1.0	25.00	0	95.9	63	137				
trans-1,3-Dichloropropene	24.790	1.0	25.00	0	99.2	59	135				
Trichloroethene	23.960	1.0	25.00	0	95.8	70	127				
Trichlorofluoromethane	28.850	1.0	25.00	0	115	57	129				
Vinyl chloride	24.180	1.0	25.00	0	96.7	50	134				
Xylenes, Total	78.410	2.0	75.00	0	105	75	125				
Surr: 1,2-Dichloroethane-d4	23.250		25.00		93.0	72	119				
Surr: 4-Bromofluorobenzene	24.360		25.00		97.4	76	119				
Surr: Dibromofluoromethane	24.320		25.00		97.3	85	115				
Surr: Toluene-d8	24.700		25.00		98.8	81	120				

Sample ID: N005807-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: ZZZZZ	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	27.780	1.0	25.00	0	111	81	129				
1,1,1-Trichloroethane	23.340	1.0	25.00	0	93.4	67	132				
1,1,2,2-Tetrachloroethane	21.610	1.0	25.00	0	86.4	63	128				
1,1,2-Trichloroethane	21.950	1.0	25.00	0	87.8	75	125				
1,1-Dichloroethane	23.360	0.50	25.00	0	93.4	69	133				
1,1-Dichloroethene	24.230	1.0	25.00	0	96.9	68	130				
1,1-Dichloropropene	23.500	1.0	25.00	0	94.0	73	132				
1,2,3-Trichlorobenzene	24.580	1.0	25.00	0	98.3	67	137				
1,2,3-Trichloropropane	21.180	1.0	25.00	0	84.7	73	124				
1,2,4-Trichlorobenzene	26.710	1.0	25.00	0	107	66	134				
1,2,4-Trimethylbenzene	27.820	1.0	25.00	0.5500	109	74	132				
1,2-Dibromo-3-chloropropane	19.980	2.0	25.00	0	79.9	50	132				
1,2-Dibromoethane	19.770	1.0	25.00	0	79.1	80	121				S

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: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005807-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 80108
Client ID: ZZZZZZ	Batch ID: D111VW063	TestNo: EPA 8260B		SeqNo: 1269697
		Prep Date:		
		Analysis Date: 5/19/2011		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	24.810	1.0	25.00	0	99.2	71	122				
1,2-Dichloroethane	19.730	0.50	25.00	0	78.9	69	132				
1,2-Dichloropropane	22.110	1.0	25.00	0	88.4	75	125				
1,3,5-Trimethylbenzene	27.980	1.0	25.00	0	112	74	131				
1,3-Dichlorobenzene	26.350	1.0	25.00	0	105	75	124				
1,3-Dichloropropane	22.000	1.0	25.00	0	88.0	73	126				
1,4-Dichlorobenzene	25.940	1.0	25.00	0	104	74	123				
2,2-Dichloropropane	23.370	1.0	25.00	0	93.5	69	137				
2-Butanone	100.220	10	250.0	0	40.1	49	136				S
2-Chlorotoluene	27.600	1.0	25.00	0	110	73	126				
4-Chlorotoluene	26.980	1.0	25.00	0	108	74	128				
4-Isopropyltoluene	28.280	1.0	25.00	0	113	73	130				
4-Methyl-2-pentanone	153.030	10	250.0	0	61.2	58	134				
Acetone	48.220	10	250.0	0	19.3	40	135				S
Acrolein	177.090	20	250.0	0	70.8	75	125				S
Acrylonitrile	154.970	20	250.0	0	62.0	75	125				S
Benzene	32.330	1.0	25.00	7.690	98.6	81	122				
Bromobenzene	25.170	1.0	25.00	0	101	76	124				
Bromochloromethane	21.230	1.0	25.00	0	84.9	65	129				
Bromodichloromethane	24.420	1.0	25.00	0	97.7	76	121				
Bromoform	19.910	1.0	25.00	0	79.6	69	128				
Bromomethane	23.800	1.0	25.00	0	95.2	53	141				
Carbon disulfide	23.680	1.0	25.00	0.4400	93.0	75	125				
Carbon tetrachloride	21.440	1.0	25.00	0	85.8	66	138				
Chlorobenzene	25.470	1.0	25.00	0	102	81	122				
Chloroethane	33.620	1.0	25.00	0	134	58	133				S
Chloroform	23.250	1.0	25.00	0	93.0	69	128				
Chloromethane	28.160	1.0	25.00	0	113	56	131				
cis-1,2-Dichloroethene	22.960	1.0	25.00	0	91.8	72	126				
cis-1,3-Dichloropropene	21.770	1.0	25.00	0	87.1	69	131				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005807-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D111VW063	TestNo: EPA 8260B	
Prep Date:		RunNo: 80108	
Analysis Date: 5/19/2011		SeqNo: 1269697	

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	22.190	1.0	25.00	0		88.8	66	133				
Dibromomethane	20.000	1.0	25.00	0		80.0	76	125				
Dichlorodifluoromethane	23.130	1.0	25.00	0		92.5	53	153				
Ethylbenzene	28.020	1.0	25.00	1.450		106	73	127				
Freon-113	22.420	1.0	25.00	0		89.7	75	125				
Hexachlorobutadiene	28.910	1.0	25.00	0		116	67	131				
Isopropylbenzene	29.990	1.0	25.00	1.920		112	75	127				
m,p-Xylene	56.300	1.0	50.00	1.570		109	76	128				
Methylene chloride	20.210	5.0	25.00	0		80.8	63	137				
MTBE	17.950	1.0	25.00	0		71.8	65	123				
n-Butylbenzene	29.540	1.0	25.00	0.5200		116	69	137				
n-Propylbenzene	31.640	1.0	25.00	2.880		115	72	129				
Naphthalene	22.290	1.0	25.00	1.110		84.7	54	138				
o-Xylene	26.080	1.0	25.00	0.3700		103	80	121				
sec-Butylbenzene	30.380	1.0	25.00	2.000		114	72	127				
Styrene	25.200	1.0	25.00	0		101	65	134				
tert-Butylbenzene	27.800	1.0	25.00	0		111	70	129				
Tetrachloroethene	28.050	1.0	25.00	0		112	66	128				
Toluene	24.190	2.5	25.00	0.3800		95.2	77	122				
trans-1,2-Dichloroethene	23.030	1.0	25.00	0		92.1	63	137				
trans-1,3-Dichloropropene	21.510	1.0	25.00	0		86.0	59	135				
Trichloroethene	23.450	1.0	25.00	0		93.8	70	127				
Trichlorofluoromethane	27.940	1.0	25.00	0		112	57	129				
Vinyl chloride	23.360	1.0	25.00	0		93.4	50	134				
Xylenes, Total	82.380	2.0	75.00	1.940		107	75	125				
Surr: 1,2-Dichloroethane-d4	19.360		25.00			77.4	72	119				
Surr: 4-Bromofluorobenzene	23.820		25.00			95.3	76	119				
Surr: Dibromofluoromethane	22.300		25.00			89.2	85	115				
Surr: Toluene-d8	23.610		25.00			94.4	81	120				

Qualifiers:

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Prep Date:	
													TestCode: 8260_WP_SF	RunNo: 80108
Client ID: ZZZZZZ	Batch ID: D111VW063	Analysis Date: 5/19/2011											SeqNo: 1269698	
1,1,1,2-Tetrachloroethane	29.580	1.0	25.00	0		118	81	129	27.78	6.28	20			
1,1,1-Trichloroethane	24.150	1.0	25.00	0		96.6	67	132	23.34	3.41	20			
1,1,2,2-Tetrachloroethane	23.070	1.0	25.00	0		92.3	63	128	21.61	6.54	20			
1,1,2-Trichloroethane	23.590	1.0	25.00	0		94.4	75	125	21.95	7.20	20			
1,1-Dichloroethane	24.400	0.50	25.00	0		97.6	69	133	23.36	4.36	20			
1,1-Dichloroethene	25.410	1.0	25.00	0		102	68	130	24.23	4.75	20			
1,1-Dichloropropene	24.310	1.0	25.00	0		97.2	73	132	23.50	3.39	20			
1,2,3-Trichlorobenzene	24.350	1.0	25.00	0		97.4	67	137	24.58	0.940	20			
1,2,3-Trichloropropane	22.020	1.0	25.00	0		88.1	73	124	21.18	3.89	20			
1,2,4-Trichlorobenzene	26.040	1.0	25.00	0		104	66	134	26.71	2.54	20			
1,2,4-Trimethylbenzene	28.360	1.0	25.00	0.5500		111	74	132	27.82	1.92	20			
1,2-Dibromo-3-chloropropane	21.190	2.0	25.00	0		84.8	50	132	19.98	5.88	20			
1,2-Dibromoethane	21.070	1.0	25.00	0		84.3	80	121	19.77	6.37	20			
1,2-Dichlorobenzene	25.790	1.0	25.00	0		103	71	122	24.81	3.87	20			
1,2-Dichloroethane	20.840	0.50	25.00	0		83.4	69	132	19.73	5.47	20			
1,2-Dichloropropane	23.170	1.0	25.00	0		92.7	75	125	22.11	4.68	20			
1,3,5-Trimethylbenzene	28.590	1.0	25.00	0		114	74	131	27.98	2.16	20			
1,3-Dichlorobenzene	27.230	1.0	25.00	0		109	75	124	26.35	3.28	20			
1,3-Dichloropropane	23.060	1.0	25.00	0		92.2	73	126	22.00	4.70	20			
1,4-Dichlorobenzene	26.790	1.0	25.00	0		107	74	123	25.94	3.22	20			
2,2-Dichloropropane	24.460	1.0	25.00	0		97.8	69	137	23.37	4.56	20			
2-Butanone	101.820	10	250.0	0		40.7	49	136	100.2	1.58	20			S
2-Chlorotoluene	28.480	1.0	25.00	0		114	73	126	27.60	3.14	20			
4-Chlorotoluene	27.640	1.0	25.00	0		111	74	128	26.98	2.42	20			
4-Isopropyltoluene	28.750	1.0	25.00	0		115	73	130	28.28	1.65	20			
4-Methyl-2-pentanone	162.580	10	250.0	0		65.0	58	134	153.0	6.05	20			S
Acetone	51.370	10	250.0	0		20.5	40	135	48.22	6.33	20			S
Acrolein	183.480	20	250.0	0		73.4	75	125	177.1	3.54	20			S
Acrylonitrile	157.930	20	250.0	0		63.2	75	125	155.0	1.89	20			S
Benzene	33.140	1.0	25.00	7.690		102	81	122	32.33	2.47	20			

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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005807-005AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D111VW063	TestNo: EPA 8260B	
Prep Date:		RunNo: 80108	
Analysis Date: 5/19/2011		SeqNo: 1269698	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	26.270	1.0	25.00	0	105	76	124	25.17	4.28	20	
Bromochloromethane	22.600	1.0	25.00	0	90.4	65	129	21.23	6.25	20	
Bromodichloromethane	24.010	1.0	25.00	0	96.0	76	121	24.42	1.69	20	
Bromoform	21.550	1.0	25.00	0	86.2	69	128	19.91	7.91	20	
Bromomethane	22.260	1.0	25.00	0	89.0	53	141	23.80	6.69	20	
Carbon disulfide	24.340	1.0	25.00	0.4400	95.6	75	125	23.68	2.75	20	
Carbon tetrachloride	22.190	1.0	25.00	0	88.8	66	138	21.44	3.44	20	
Chlorobenzene	26.050	1.0	25.00	0	104	81	122	25.47	2.25	20	
Chloroethane	33.740	1.0	25.00	0	135	58	133	33.62	0.356	20	S
Chloroform	24.220	1.0	25.00	0	96.9	69	128	23.25	4.09	20	
Chloromethane	23.360	1.0	25.00	0	93.4	56	131	28.16	18.6	20	
cis-1,2-Dichloroethene	23.820	1.0	25.00	0	95.3	72	126	22.96	3.68	20	
cis-1,3-Dichloropropene	22.980	1.0	25.00	0	91.9	69	131	21.77	5.41	20	
Dibromochloromethane	23.850	1.0	25.00	0	95.4	66	133	22.19	7.21	20	
Dibromomethane	21.210	1.0	25.00	0	84.8	76	125	20.00	5.87	20	
Dichlorodifluoromethane	23.000	1.0	25.00	0	92.0	53	153	23.13	0.564	20	
Ethylbenzene	28.250	1.0	25.00	1.450	107	73	127	28.02	0.817	20	
Freon-113	23.120	1.0	25.00	0	92.5	75	125	22.42	3.07	20	
Hexachlorobutadiene	27.770	1.0	25.00	0	111	67	131	28.91	4.02	20	
Isopropylbenzene	31.220	1.0	25.00	1.920	117	75	127	29.99	4.02	20	
m,p-Xylene	57.110	1.0	50.00	1.570	111	76	128	56.30	1.43	20	
Methylene chloride	20.930	5.0	25.00	0	83.7	63	137	20.21	3.50	20	
MTBE	19.190	1.0	25.00	0	76.8	65	123	17.95	6.68	20	
n-Butylbenzene	29.810	1.0	25.00	0.5200	117	69	137	29.54	0.910	20	
n-Propylbenzene	32.240	1.0	25.00	2.880	117	72	129	31.64	1.88	20	
Naphthalene	22.230	1.0	25.00	1.110	84.5	54	138	22.29	0.270	20	
o-Xylene	26.750	1.0	25.00	0.3700	106	80	121	26.08	2.54	20	
sec-Butylbenzene	31.170	1.0	25.00	2.000	117	72	127	30.38	2.57	20	
Styrene	25.800	1.0	25.00	0	103	65	134	25.20	2.35	20	
tert-Butylbenzene	28.460	1.0	25.00	0	114	70	129	27.80	2.35	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005807-005AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: ZZZZZZ	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269698						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	28.320	1.0	25.00	0	113	66	128	28.05	0.958	20	
Toluene	24.780	2.5	25.00	0.3800	97.6	77	122	24.19	2.41	20	
trans-1,2-Dichloroethene	24.120	1.0	25.00	0	96.5	63	137	23.03	4.62	20	
trans-1,3-Dichloropropene	22.750	1.0	25.00	0	91.0	59	135	21.51	5.60	20	
Trichloroethene	24.440	1.0	25.00	0	97.8	70	127	23.45	4.13	20	
Trichlorofluoromethane	28.440	1.0	25.00	0	114	57	129	27.94	1.77	20	
Vinyl chloride	23.670	1.0	25.00	0	94.7	50	134	23.36	1.32	20	
Xylenes, Total	83.860	2.0	75.00	1.940	109	75	125	82.38	1.78	20	
Surr: 1,2-Dichloroethane-d4	20.500		25.00		82.0	72	119		0		
Surr: 4-Bromofluorobenzene	24.510		25.00		98.0	76	119		0		
Surr: Dibromofluoromethane	23.740		25.00		95.0	85	115		0		
Surr: Toluene-d8	24.400		25.00		97.6	81	120		0		

Sample ID: D110519MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: PBW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269699						
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:

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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
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 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110519MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: PBW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269699						
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:

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 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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

CLIENT: CH2M HILL
Work Order: N005822
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110519MB2	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80108						
Client ID: PBW	Batch ID: D111VW063	TestNo: EPA 8260B		Analysis Date: 5/19/2011	SeqNo: 1269699						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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	22.990		25.00		92.0	72		119			
Surr: 4-Bromofluorobenzene	25.800		25.00		103	76		119			
Surr: Dibromofluoromethane	23.250		25.00		93.0	85		115			
Surr: Toluene-d8	27.270		25.00		109	81		120			

Qualifiers:

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 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
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 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values

CHAIN OF CUSTODY RECORD

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)

DATE: 5/17/11
 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):							
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS: Report to 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.		P.O. NO.: QUOTE NO.: LAB USE ONLY: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
REQUESTED ANALYSIS									
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE TIME	MAT- RIX	NO. OF CONT.	TPH - 6 (8015M)	TPH - 9 (8015M)	VOCs, Full List (8260B)	Comments
	INF-05-17	Influent	5/17/11 1320	WW	7	X	X	X	Temperature* = (Temp. as sampled*) Monthly
Relinquished by: (Signature)						Received by: (Signature)			
Relinquished by: (Signature)						Received by: (Signature)			
Relinquished by: (Signature)						Received by: (Signature)			
						Date: 5/17/11	Time: 1447		
						Date: 5/17/11	Time: 1516		
						Date:	Time:		

NOV 2011

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: 5/18/2011 Workorder: N005822
 Rep sample Temp (Deg C): 3.0 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: OnTrac
 Last 4 digits of Tracking No.: 9188 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

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

Comments:

Checklist Completed By GG

Reviewed By: as Stoshin

OnTrac
 800-334-5000
 Call For A Pickup!

FROM (Company)
 ENVIRONMENTAL TREATMENT & TECHNOLOGY*

Street Address
 275 WILLOW AVE
 City
 SIGNAL MOUNTAIN

State
 OH
 Zip Code (Required)
 45126
 Phone Number
 - - - - -

TO (Company) WE CANNOT DELIVER TO A P.O. BOX
 ATL
 Street Address
 2151 W POST RD
 Suite #
 City
 LAS VEGAS

State
 NV
 Zip Code (Required)
 89118
 Phone Number
 702-307-2659

Recipient's Name
 MARLOW C.
 Shipper's Ref. #
 RAMHILL051711

Account Number
 1809188

Date
 09/27/97

BI0241

OnTrac
 LAS VEGAS
 COM 17 DF 12

Weight
 18 lbs

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

SUNRISE - BY 10:30 AM*
 SUNRISE GOLD - BY 8:00 AM*
 HEAVYWEIGHT**
 Saturday Delivery - Extra Charge
 (see Service Guide for details)
 HOLD FOR PICKUP
 This shipment requires a delivery signature
 Declared Value \$ (maximum \$25,000)

C.O.D. Amount \$ Limit \$10,000
 (enter C.O.D. tag to package)
 Secured Payment (Money Order or Certified Check)
 Unsecured Payment (Company Check or Personal Check)

Information
 If none is selected, shipper will be invoiced.

Bill Shipper's Account
 Bill Other Acct #

Dim weight charge if greater than actual weight
 L in. X W in. X H in. +225 =

Driver #
 Pick-up Time
 Shipper's Signature

Driver's Initials
 Shipper's Name

Shipper's Ref. #

May 25, 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.: N005821

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski


Enclosed are the results for sample(s) received on May 17, 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,



Jose Tenorio Jr.
Laboratory Director

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



*Advanced Technology
Laboratories, Inc.*

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

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005821

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.

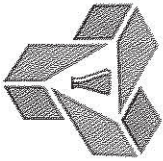
Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Subcontracted Analyses:

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

ASTM D1946 was subcontracted to ATL Air Labs-City of Industry, CA .





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: James Dye

17-May-11

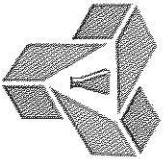
Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
N005821-001B / VINP-05-17	Air	5/17/2011 1:50:00 PM	BAG	ASTM D1946 1

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

Please use PO#:N005821

Please fax results by:5 day TAT.

Relinquished by:	Date/Time	Received by:	Date/Time
	5/17/11		
Relinquished by:		Received by:	



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atglobal.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: James Dye

17-May-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
N005821-001A / VINP-05-17	Air	5/17/2011 1:50:00 PM	BAG	EPA TO15 1 EPA TO3 1

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

Please use PO#: N005821 Please fax results by: 5 day TAT.

Relinquished by:	Date/Time	Received by:	Date/Time
	5/17/11		
Relinquished by:		Received by:	

May 24, 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.: 117873

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on May 17, 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,

A handwritten signature in black ink, appearing to read "E.F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 24-May-11

CLIENT: Advanced Technology Laboratory-Las Vega Client Sample ID: N005821-001A / VINF-05-17
 Lab Order: 117873 Collection Date: 5/17/2011 1:50:00 PM
 Project: Matrix: AIR
 Lab ID: 117873-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110518B	QC Batch:	W11A057	PrepDate:	Analyst:	DMP
1,1,1-Trichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,1,2,2-Tetrachloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,1,2-Trichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,1-Dichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,1-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2,4-Trichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2,4-Trimethylbenzene	89	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2-Dibromoethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2-Dichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,2-Dichloropropane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,3,5-Trimethylbenzene	55	5.0	ppbv	20	5/18/2011 03:50 PM	
1,3-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
1,4-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
2-Butanone	24	5.0	ppbv	20	5/18/2011 03:50 PM	
2-Hexanone	120	5.0	ppbv	20	5/18/2011 03:50 PM	
4-Ethyl Toluene	34	5.0	ppbv	20	5/18/2011 03:50 PM	
4-Methyl-2-pentanone	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Acetone	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Benzene	2600	120	ppbv	500	5/18/2011 07:00 PM	
Benzyl chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Bromodichloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Bromoform	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Bromomethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Carbon disulfide	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Carbon tetrachloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Chlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Chloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Chloroform	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Chloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
cis-1,2-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
cis-1,3-Dichloropropene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Dibromochloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Dichlorodifluoromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Dichlorotetrafluoroethane	ND	5.0	ppbv	20	5/18/2011 03:50 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 24-May-11

CLIENT: Advanced Technology Laboratory-Las Vega Client Sample ID: N005821-001A / VINP-05-17
 Lab Order: 117873 Collection Date: 5/17/2011 1:50:00 PM
 Project: Matrix: AIR
 Lab ID: 117873-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110518B	QC Batch: W11A057				PrepDate:	Analyst: DMP
Ethylbenzene	140	5.0	ppbv	20	5/18/2011 03:50 PM	
Freon-113	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Hexachlorobutadiene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
m,p-Xylene	800	5.0	ppbv	20	5/18/2011 03:50 PM	
MTBE	220	5.0	ppbv	20	5/18/2011 03:50 PM	
Methylene chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
o-Xylene	300	5.0	ppbv	20	5/18/2011 03:50 PM	
Styrene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Tetrachloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Toluene	2200	120	ppbv	500	5/18/2011 07:00 PM	
trans-1,2-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
trans-1,3-Dichloropropene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Trichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Trichlorofluoromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Vinyl acetate	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Vinyl chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Surr: 4-Bromofluorobenzene	114	70-130	%REC	20	5/18/2011 03:50 PM	
Surr: 4-Bromofluorobenzene	110	70-130	%REC	500	5/18/2011 07:00 PM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID: MS14_110518B	QC Batch: W11A057				PrepDate:	Analyst: DMP
Gasoline	90000	4.0	ppmv	200	5/18/2011 05:48 PM	
Surr: 4-Bromofluorobenzene	102	70-130	%REC	200	5/18/2011 05:48 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 24-May-11

CLIENT: Advanced Technology Laboratory-Las Vegas

Work Order: 117873

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: LCS-W11A057	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethane	2.080	0.25	2.000	0	104	70	130				
Benzene	2.000	0.25	2.000	0	100	70	130				
Chloroform	2.030	0.25	2.000	0	102	70	130				
m,p-Xylene	4.340	0.25	4.000	0	108	70	130				
o-Xylene	2.230	0.25	2.000	0	112	70	130				
Tetrachloroethene	2.140	0.25	2.000	0	107	70	130				
Toluene	2.050	0.25	2.000	0	103	70	130				
Trichloroethene	1.950	0.25	2.000	0	97.5	70	130				
Vinyl chloride	2.100	0.25	2.000	0	105	70	130				
Surr: 4-Bromofluorobenzene	2.720		2.500		109	70	130				

Sample ID: LCSD-W11A057	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethane	2.090	0.25	2.000	0	104	70	130	2.080	0.480	20	
Benzene	1.980	0.25	2.000	0	99.0	70	130	2.000	1.01	20	
Chloroform	2.020	0.25	2.000	0	101	70	130	2.030	0.494	20	
m,p-Xylene	4.250	0.25	4.000	0	106	70	130	4.340	2.10	20	
o-Xylene	2.220	0.25	2.000	0	111	70	130	2.230	0.449	20	
Tetrachloroethene	2.140	0.25	2.000	0	107	70	130	2.140	0	20	
Toluene	2.010	0.25	2.000	0	101	70	130	2.050	1.97	20	
Trichloroethene	1.910	0.25	2.000	0	95.5	70	130	1.950	2.07	20	
Vinyl chloride	2.130	0.25	2.000	0	106	70	130	2.100	1.42	20	
Surr: 4-Bromofluorobenzene	2.680		2.500		107	70	130		0	0	

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
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

ANALYTICAL QC SUMMARY REPORT

CLIENT: Advanced Technology Laboratory-Las Vegas

Work Order: 117873

Project:

TestCode: TO15_CH2

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171080						
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
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Advanced Technology Laboratory-Las Vegas

Work Order: 117873

Project:

TestCode: TO15_CH2

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171080						
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	2.730		2.500		109	70	130				

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Advanced Technology Laboratory-Las Vegas

Work Order: 117873

Project:

TestCode: TO3_GAS_CH2

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	20									
Surr: 4-Bromofluorobenzene	2.370		2.500		94.8	70	130				

Sample ID: LCS-W11A057	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

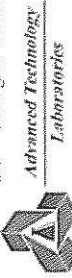
Gasoline	244.810	0.020	200.0	0	122	70	130				
Surr: 4-Bromofluorobenzene	2.470		2.500		98.8	70	130				

Sample ID: LCSD-W11A057	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

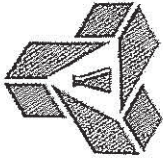
Gasoline	231.970	0.020	200.0	0	116	70	130	244.8	5.39	20	
Surr: 4-Bromofluorobenzene	2.520		2.500		101	70	130		0	0	

Qualifiers:

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



Advanced Technology Laboratories
 3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040



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: James Dye

17-May-11

Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	Requested Tests
N005821-001A / VINP-05-17	Air	5/17/2011 1:50:00 PM	BAG	1	EPA TO3 1

117677-007

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

Please use PO#: N005821

Please fax results by: 5 day TAT.

Date/Time

5/17/11

Refiniquished by: *[Signature]*

Refiniquished by:

Date/Time

[Signature]

5/17/11 1:50 PM

May 25, 2011

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



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

LABORATORY TEST RESULTS

Project Reference: SFPP-Norwalk Site
ATL Project Reference: N005821
Lab Number: C051801-01

Enclosed are results for sample(s) received 5/18/11 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.



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: James Dye

17-May-11

Requested Tests

Sample ID: N005821-001B / VINP-05-17
Matrix: Air
Date Collected: 5/17/2011 1:50:00 PM
Bottle Type: BAG
ASTM D1946: 1

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

Please use PO#:N005821

Please fax results by:5 day TAT.

Relinquished by:

Relinquished by:

Date/Time: 5/17/11

Received by: James DeLaOssa

Received by:

Date/Time: 5/18/11

May 27, 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.: 117873

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on May 17, 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.

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 (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-May-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005821-001A / VINP-05-17
Lab Order: 117873 **Collection Date:** 5/17/2011 1:50:00 PM
Project: **Matrix:** AIR
Lab ID: 117873-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110518B	QC Batch: W11A057	PrepDate:	Analyst: DMP		
1,1,1-Trichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,1,1,2-Tetrachloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,1,2-Trichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,1-Dichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,1-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,2,4-Trichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,2,4-Trimethylbenzene	89	5.0	ppbv	20	5/18/2011 03:50 PM
1,2-Dibromoethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,2-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,2-Dichloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,2-Dichloropropane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,3,5-Trimethylbenzene	55	5.0	ppbv	20	5/18/2011 03:50 PM
1,3-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
1,4-Dichlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
2-Butanone	24	5.0	ppbv	20	5/18/2011 03:50 PM
2-Hexanone	120	5.0	ppbv	20	5/18/2011 03:50 PM
4-Ethyl Toluene	34	5.0	ppbv	20	5/18/2011 03:50 PM
4-Methyl-2-pentanone	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Acetone	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Benzene	2600	120	ppbv	500	5/18/2011 07:00 PM
Benzyl chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Bromodichloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Bromoform	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Bromomethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Carbon disulfide	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Carbon tetrachloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Chlorobenzene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Chloroethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Chloroform	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Chloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
cis-1,2-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
cis-1,3-Dichloropropene	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Dibromochloromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Dichlorodifluoromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM
Dichlorotetrafluoroethane	ND	5.0	ppbv	20	5/18/2011 03:50 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-May-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005821-001A / VINP-05-17
Lab Order: 117873 **Collection Date:** 5/17/2011 1:50:00 PM
Project: **Matrix:** AIR
Lab ID: 117873-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110518B	QC Batch:	W11A057	PrepDate:	Analyst:	DMP
Ethylbenzene	140	5.0	ppbv	20	5/18/2011 03:50 PM	
Freon-113	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Hexachlorobutadiene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
m,p-Xylene	800	5.0	ppbv	20	5/18/2011 03:50 PM	
MTBE	220	5.0	ppbv	20	5/18/2011 03:50 PM	
Methylene chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
o-Xylene	300	5.0	ppbv	20	5/18/2011 03:50 PM	
Styrene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Tetrachloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Toluene	2200	120	ppbv	500	5/18/2011 07:00 PM	
trans-1,2-Dichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
trans-1,3-Dichloropropene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Trichloroethene	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Trichlorofluoromethane	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Vinyl acetate	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Vinyl chloride	ND	5.0	ppbv	20	5/18/2011 03:50 PM	
Surr: 4-Bromofluorobenzene	114	70-130	%REC	20	5/18/2011 03:50 PM	
Surr: 4-Bromofluorobenzene	110	70-130	%REC	500	5/18/2011 07:00 PM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110518B	QC Batch:	W11A057	PrepDate:	Analyst:	DMP
Gasoline	90	4.0	ppmv	200	5/18/2011 05:48 PM	
Surr: 4-Bromofluorobenzene	102	70-130	%REC	200	5/18/2011 05:48 PM	
Surr: 4-Bromofluorobenzene	102	70-130	%REC	200	5/18/2011 05:48 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Advanced Technology Laboratory-Las Vegas
 Work Order: 117873

ANALYTICAL QC SUMMARY REPORT

Project: TestCode: TO15_CH2

Sample ID: LCS-W11A057	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.080	0.25	2.000	0	104	70	130				
Benzene	2.000	0.25	2.000	0	100	70	130				
Chloroform	2.030	0.25	2.000	0	102	70	130				
m,p-Xylene	4.340	0.25	4.000	0	108	70	130				
o-Xylene	2.230	0.25	2.000	0	112	70	130				
Tetrachloroethene	2.140	0.25	2.000	0	107	70	130				
Toluene	2.050	0.25	2.000	0	103	70	130				
Trichloroethene	1.950	0.25	2.000	0	97.5	70	130				
Vinyl chloride	2.100	0.25	2.000	0	105	70	130				
Surr: 4-Bromofluorobenzene	2.720		2.500		109	70	130				

Sample ID: LCSD-W11A057	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.090	0.25	2.000	0	104	70	130	2.080	0.480	20	
Benzene	1.980	0.25	2.000	0	99.0	70	130	2.000	1.01	20	
Chloroform	2.020	0.25	2.000	0	101	70	130	2.030	0.494	20	
m,p-Xylene	4.250	0.25	4.000	0	106	70	130	4.340	2.10	20	
o-Xylene	2.220	0.25	2.000	0	111	70	130	2.230	0.449	20	
Tetrachloroethene	2.140	0.25	2.000	0	107	70	130	2.140	0	20	
Toluene	2.010	0.25	2.000	0	101	70	130	2.050	1.97	20	
Trichloroethene	1.910	0.25	2.000	0	95.5	70	130	1.950	2.07	20	
Vinyl chloride	2.130	0.25	2.000	0	106	70	130	2.100	1.42	20	
Surr: 4-Bromofluorobenzene	2.680		2.500		107	70	130		0	0	

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: Advanced Technology Laboratory-Las Vegas
Work Order: 117873
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	RunNo: 133092							
Client ID: ZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		SeqNo: 2171080							
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: 117873
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZ	Batch ID: W11A057	TestNo: EPA TO15		Analysis Date: 5/18/2011	SeqNo: 2171080						
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	2.730		2.500		109	70	130				

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: Advanced Technology Laboratory-Las Vegas
Work Order: 117873
Project: TestCode: TO3_GAS_CH2

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.370		2.500		94.8	70	130				

Sample ID: LCS-W11A057	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.470		2.500		98.8	70	130				

Sample ID: LCSD-W11A057	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2171087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.520		2.500		101	70	130		0	0	

Sample ID: MB-W11A057	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2176177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	0.020									
Surr: 4-Bromofluorobenzene	0.002		0.002500		94.8	70	130				

Sample ID: LCS-W11A057	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2176178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.245	0.020	0.2000	0	122	70	130				
Surr: 4-Bromofluorobenzene	0.002		0.002500		98.8	70	130				

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: Advanced Technology Laboratory-Las Vegas
Work Order: 117873
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

Sample ID: LCSD-W11A057	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 133092						
Client ID: ZZZZZ	Batch ID: W11A057	TestNo: EPA TO3		Analysis Date: 5/18/2011	SeqNo: 2176180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.232	0.020	0.2000	0	116	70	130	0.2448	5.39	20	
Surr: 4-Bromofluorobenzene	0.003		0.002500		101	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			





Advanced Technology Laboratories

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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: James Dye

17-May-11

Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	EPA TO3
117673-007 N005821-001A / VINP-05-17	Air	5/17/2011 1:50:00 PM	BAG	1	1

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

Please use PO#: N005821 Please fax results by: 5 day TAT.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	5/17/11	<i>[Signature]</i>	5/17/11 1:50

June 24, 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.: N005984

RE: SFPP - Norwalk Site


Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on June 17, 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

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005984

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 .



June 24, 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.: 118503

RE:


Attention: Marlon Cartin

Enclosed are the results for sample(s) received on June 17, 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

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Advanced Technology Laboratory-Las Vega
Project:
Lab Order: 118503

CASE NARRATIVE

Analytical Comments for EPA TO15

Sample 118503-001A, surrogate recovery biased high possibly due to matrix interferences.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 24-Jun-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005984-001A / VINP-06-17
Lab Order: 118503 **Collection Date:** 6/17/2011 8:40:00 AM
Project: **Matrix:** AIR
Lab ID: 118503-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110617A	QC Batch: W11A071	PrepDate:	Analyst: DMP		
1,1,1-Trichloroethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,1,1,2-Tetrachloroethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,1,2-Trichloroethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,1-Dichloroethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,1-Dichloroethene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,2,4-Trichlorobenzene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,2,4-Trimethylbenzene	20	2.5	ppbv	10	6/17/2011 08:21 PM
1,2-Dibromoethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,2-Dichlorobenzene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,2-Dichloroethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,2-Dichloropropane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,3,5-Trimethylbenzene	10	0.25	ppbv	1	6/17/2011 08:57 PM
1,3-Dichlorobenzene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
1,4-Dichlorobenzene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
2-Butanone	10	0.25	ppbv	1	6/17/2011 08:57 PM
2-Hexanone	ND	0.25	ppbv	1	6/17/2011 08:57 PM
4-Ethyl Toluene	5.1	0.25	ppbv	1	6/17/2011 08:57 PM
4-Methyl-2-pentanone	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Acetone	83	2.5	ppbv	10	6/17/2011 08:21 PM
Benzene	59	2.5	ppbv	10	6/17/2011 08:21 PM
Benzyl chloride	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Bromodichloromethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Bromoform	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Bromomethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Carbon disulfide	0.63	0.25	ppbv	1	6/17/2011 08:57 PM
Carbon tetrachloride	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Chlorobenzene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Chloroethane	0.50	0.25	ppbv	1	6/17/2011 08:57 PM
Chloroform	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Chloromethane	1.1	0.25	ppbv	1	6/17/2011 08:57 PM
cis-1,2-Dichloroethene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
cis-1,3-Dichloropropene	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Dibromochloromethane	ND	0.25	ppbv	1	6/17/2011 08:57 PM
Dichlorodifluoromethane	0.62	0.25	ppbv	1	6/17/2011 08:57 PM
Dichlorotetrafluoroethane	ND	0.25	ppbv	1	6/17/2011 08:57 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 24-Jun-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N005984-001A / VINP-06-17
Lab Order: 118503 **Collection Date:** 6/17/2011 8:40:00 AM
Project: **Matrix:** AIR
Lab ID: 118503-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110617A	QC Batch:	W11A071	PrepDate:	Analyst:	DMP
Ethylbenzene	8.1	0.25	ppbv	1	6/17/2011 08:57 PM	
Freon-113	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Hexachlorobutadiene	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
m,p-Xylene	37	2.5	ppbv	10	6/17/2011 08:21 PM	
MTBE	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Methylene chloride	2.4	0.25	ppbv	1	6/17/2011 08:57 PM	
o-Xylene	19	0.25	ppbv	1	6/17/2011 08:57 PM	
Styrene	0.80	0.25	ppbv	1	6/17/2011 08:57 PM	
Tetrachloroethene	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Toluene	31	2.5	ppbv	10	6/17/2011 08:21 PM	
trans-1,2-Dichloroethene	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
trans-1,3-Dichloropropene	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Trichloroethene	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Trichlorofluoromethane	0.30	0.25	ppbv	1	6/17/2011 08:57 PM	
Vinyl acetate	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Vinyl chloride	ND	0.25	ppbv	1	6/17/2011 08:57 PM	
Surr: 4-Bromofluorobenzene	132	70-130	%REC	1	6/17/2011 08:57 PM	S
Surr: 4-Bromofluorobenzene	114	70-130	%REC	10	6/17/2011 08:21 PM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110617B	QC Batch:	W11A071	PrepDate:	Analyst:	DMP
Gasoline	3.0	0.20	ppmv	10	6/17/2011 08:21 PM	
Surr: 4-Bromofluorobenzene	111	70-130	%REC	10	6/17/2011 08:21 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



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Advanced Technology Laboratory-Las Vegas
 Work Order: 118503

ANALYTICAL QC SUMMARY REPORT

Project: TestCode: TO15_CH2

Sample ID: LCS-W11A071	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 134374						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO15		Analysis Date: 6/17/2011	SeqNo: 2196474						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.200	0.25	2.000	0	110	70	130				
Benzene	1.850	0.25	2.000	0	92.5	70	130				
Chloroform	2.380	0.25	2.000	0	119	70	130				
m,p-Xylene	4.230	0.25	4.000	0	106	70	130				
o-Xylene	2.170	0.25	2.000	0	108	70	130				
Tetrachloroethene	1.990	0.25	2.000	0	99.5	70	130				
Toluene	1.840	0.25	2.000	0	92.0	70	130				
Trichloroethene	1.930	0.25	2.000	0	96.5	70	130				
Vinyl chloride	2.120	0.25	2.000	0	106	70	130				
Surr: 4-Bromofluorobenzene	2.690		2.500		108	70	130				

Sample ID: LCSD-W11A071	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 134374						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO15		Analysis Date: 6/17/2011	SeqNo: 2196475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.210	0.25	2.000	0	110	70	130	2.200	0.454	20	
Benzene	1.840	0.25	2.000	0	92.0	70	130	1.850	0.542	20	
Chloroform	2.360	0.25	2.000	0	118	70	130	2.380	0.844	20	
m,p-Xylene	4.300	0.25	4.000	0	108	70	130	4.230	1.64	20	
o-Xylene	2.230	0.25	2.000	0	112	70	130	2.170	2.73	20	
Tetrachloroethene	1.970	0.25	2.000	0	98.5	70	130	1.990	1.01	20	
Toluene	1.870	0.25	2.000	0	93.5	70	130	1.840	1.62	20	
Trichloroethene	1.950	0.25	2.000	0	97.5	70	130	1.930	1.03	20	
Vinyl chloride	2.390	0.25	2.000	0	120	70	130	2.120	12.0	20	
Surr: 4-Bromofluorobenzene	2.720		2.500		109	70	130		0	0	

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: Advanced Technology Laboratory-Las Vegas
Work Order: 118503
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A071	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 134374						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO15		Analysis Date: 6/17/2011	SeqNo: 2196476						
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
 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: Advanced Technology Laboratory-Las Vegas
Work Order: 1118503
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A071	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 134374						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO15		Analysis Date: 6/17/2011	SeqNo: 2196476						
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	2.630		2.500		105	70	130				

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: Advanced Technology Laboratory-Las Vegas
Work Order: 118503
Project: **TestCode: TO3_GAS_CH2**

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB-W11A071	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 134375						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO3		Analysis Date: 6/17/2011	SeqNo: 2196480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.007	0.020			93.2	70	130				
Surr: 4-Bromofluorobenzene	0.002		0.002500								

Sample ID: LCS-W11A071	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 134375						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO3		Analysis Date: 6/17/2011	SeqNo: 2196481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.227	0.020	0.2000	0.007440	110	70	130				
Surr: 4-Bromofluorobenzene	0.003		0.002500		112	70	130				

Sample ID: LCSD-W11A071	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 134375						
Client ID: ZZZZZ	Batch ID: W11A071	TestNo: EPA TO3		Analysis Date: 6/17/2011	SeqNo: 2196483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.233	0.020	0.2000	0.007440	113	70	130	0.2269	2.79	20	
Surr: 4-Bromofluorobenzene	0.003		0.002500		106	70	130		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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



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: James Dye

17-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	EPA TO3	Requested Tests
118503-01 N005984-001A / VINP-06-17	Air	6/17/2011 8:40:00 AM	BAG	1	1	EPA TO3

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

Please use PO#:N005984

Please fax results by:5 day TAT

Relinquished by:	Date/Time	Received by:	Date/Time
	6/17/11		6/17/11
Relinquished by:		Received by:	



June 24, 2011

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



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

LABORATORY TEST RESULTS

Project Reference: SFPP-Norwalk Site
ATL Project Reference: N005984
Lab Number: C062002-01

Enclosed are results for sample(s) received 6/20/11 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.

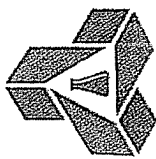
Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Johnson'.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

CO 62002-31



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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
ATL-Industry

Field Sampler: James Dye

City of Industry, CA

17-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	ASTM	Requested Tests
N005984-001B / VINP-06-17	Air	6/17/2011 8:40:00 AM	BAG	D1946	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N005984 Please email results by: 5 day TAT

Relinquished by:		Date/Time	6/17/11
Relinquished by:		Received by:	John De La Rosa
		Received by:	via email
		Date/Time	6/17/11



Client: ATL-Las Vegas
 Attn: Marlon Cartin
 Project Name: Kinder Morgan Energy Partners
 Project No.: SFPP-Norwalk Site
 Date Received: 06/20/11
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946							
Lab No.:	C062002-01						
Client Sample I.D.:	N005984-001B / VINP-06-17						
Date Sampled:	06/17/11						
Date Analyzed:	06/20/11						
QC Batch No.:	110620GC8A1						
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					
Nitrogen	79	1.0					
Methane	0.0011	0.0010					

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 6/24/11

The cover letter is an integral part of this analytical report

June 28, 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.: N005997

RE: SFPP - Norwalk Site

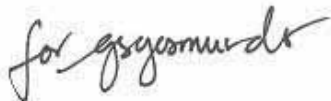
Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on June 22, 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

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



Advanced Technology
Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005997

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:

Trichlorofluoromethane and Acrylonitrile recovery biased high on Laboratory Control Sample (LCS). Sample results were non-detect (ND) for these analytes therefore reanalysis of the sample was not necessary.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N005997
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N005997-001A	INF-06-21	Waste Water	6/21/2011 11:40:00 AM	6/22/2011	
N005997-001B	INF-06-21	Waste Water	6/21/2011 11:40:00 AM	6/22/2011	
N005997-001C	INF-06-21	Waste Water	6/21/2011 11:40:00 AM	6/22/2011	



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 28-Jun-11

CLIENT: CH2M HILL
Lab Order: N005997
Project: SFPP - Norwalk Site
Lab ID: N005997-001

Client Sample ID: INF-06-21
Collection Date: 6/21/2011 11:40:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_110627A	QC Batch: 37170					PrepDate: 6/27/2011	Analyst: MDM
TPH-Fuel Product	720	13	50		ug/L	1	6/27/2011 02:57 PM
Surr: Octacosane	61.9	0	26-152		%REC	1	6/27/2011 02:57 PM
Surr: p-Terphenyl	62.3	0	57-132		%REC	1	6/27/2011 02:57 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_110623A	QC Batch: E11VW031					PrepDate:	Analyst: QBM
TPH-Gasoline	1200	6.0	100		µg/L	1	6/23/2011
Surr: Chlorobenzene - d5	92.8	0	74-138		%REC	1	6/23/2011

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110622A	QC Batch: D11VW084					PrepDate:	Analyst: QBM
1,1,1,2-Tetrachloroethane	ND	0.061	1.0		µg/L	1	6/22/2011 11:48 PM
1,1,1-Trichloroethane	ND	0.068	1.0		µg/L	1	6/22/2011 11:48 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0		µg/L	1	6/22/2011 11:48 PM
1,1,2-Trichloroethane	ND	0.083	1.0		µg/L	1	6/22/2011 11:48 PM
1,1-Dichloroethane	ND	0.099	0.50		µg/L	1	6/22/2011 11:48 PM
1,1-Dichloroethene	ND	0.094	1.0		µg/L	1	6/22/2011 11:48 PM
1,1-Dichloropropene	ND	0.082	1.0		µg/L	1	6/22/2011 11:48 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0		µg/L	1	6/22/2011 11:48 PM
1,2,3-Trichloropropane	ND	0.12	1.0		µg/L	1	6/22/2011 11:48 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0		µg/L	1	6/22/2011 11:48 PM
1,2,4-Trimethylbenzene	11	0.095	1.0		µg/L	1	6/22/2011 11:48 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	6/22/2011 11:48 PM
1,2-Dibromoethane	ND	0.14	1.0		µg/L	1	6/22/2011 11:48 PM
1,2-Dichlorobenzene	ND	0.070	1.0		µg/L	1	6/22/2011 11:48 PM
1,2-Dichloroethane	ND	0.17	0.50		µg/L	1	6/22/2011 11:48 PM
1,2-Dichloropropane	ND	0.085	1.0		µg/L	1	6/22/2011 11:48 PM
1,3,5-Trimethylbenzene	4.7	0.087	1.0		µg/L	1	6/22/2011 11:48 PM
1,3-Dichlorobenzene	ND	0.090	1.0		µg/L	1	6/22/2011 11:48 PM
1,3-Dichloropropane	ND	0.074	1.0		µg/L	1	6/22/2011 11:48 PM
1,4-Dichlorobenzene	ND	0.092	1.0		µg/L	1	6/22/2011 11:48 PM
2,2-Dichloropropane	ND	0.061	1.0		µg/L	1	6/22/2011 11:48 PM
2-Butanone	ND	1.0	10		µg/L	1	6/22/2011 11:48 PM
2-Chlorotoluene	ND	0.080	1.0		µg/L	1	6/22/2011 11:48 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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 28-Jun-11

CLIENT: CH2M HILL
Lab Order: N005997
Project: SFPP - Norwalk Site
Lab ID: N005997-001

Client Sample ID: INF-06-21
Collection Date: 6/21/2011 11:40:00 AM
Matrix: WASTE WATER

Analyses **Result** **MDL** **PQL** **Qual** **Units** **DF** **Date Analyzed**

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110622A	QC Batch: D11VW084	PrepDate:	Analyst: QBM			
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	6/22/2011 11:48 PM
4-Isopropyltoluene	ND	0.080	1.0	µg/L	1	6/22/2011 11:48 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	6/22/2011 11:48 PM
Acetone	ND	1.6	10	µg/L	1	6/22/2011 11:48 PM
Acrolein	ND	4.3	20	µg/L	1	6/22/2011 11:48 PM
Acrylonitrile	ND	0.61	20	µg/L	1	6/22/2011 11:48 PM
Benzene	860	0.75	10	µg/L	10	6/22/2011 11:03 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	6/22/2011 11:48 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	6/22/2011 11:48 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	6/22/2011 11:48 PM
Bromoform	ND	0.086	1.0	µg/L	1	6/22/2011 11:48 PM
Bromomethane	ND	0.13	1.0	µg/L	1	6/22/2011 11:48 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	6/22/2011 11:48 PM
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	6/22/2011 11:48 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	6/22/2011 11:48 PM
Chloroethane	ND	0.14	1.0	µg/L	1	6/22/2011 11:48 PM
Chloroform	ND	0.058	1.0	µg/L	1	6/22/2011 11:48 PM
Chloromethane	ND	0.054	1.0	µg/L	1	6/22/2011 11:48 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	6/22/2011 11:48 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	6/22/2011 11:48 PM
Di-isopropyl ether	6.6	0.072	1.0	µg/L	1	6/22/2011 11:48 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	6/22/2011 11:48 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	6/22/2011 11:48 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	6/22/2011 11:48 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	6/22/2011 11:48 PM
Ethylbenzene	9.6	0.051	1.0	µg/L	1	6/22/2011 11:48 PM
Freon-113	ND	0.080	1.0	µg/L	1	6/22/2011 11:48 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	6/22/2011 11:48 PM
Isopropylbenzene	1.4	0.057	1.0	µg/L	1	6/22/2011 11:48 PM
m,p-Xylene	59	0.17	1.0	µg/L	1	6/22/2011 11:48 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	6/22/2011 11:48 PM
MTBE	190	0.089	1.0	µg/L	1	6/22/2011 11:48 PM
n-Butylbenzene	ND	0.082	1.0	µg/L	1	6/22/2011 11:48 PM
n-Propylbenzene	2.5	0.087	1.0	µg/L	1	6/22/2011 11:48 PM
Naphthalene	29	0.056	1.0	µg/L	1	6/22/2011 11:48 PM
o-Xylene	23	0.077	1.0	µg/L	1	6/22/2011 11:48 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



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 28-Jun-11

CLIENT: CH2M HILL
Lab Order: N005997
Project: SFPP - Norwalk Site
Lab ID: N005997-001

Client Sample ID: INF-06-21
Collection Date: 6/21/2011 11:40:00 AM
Matrix: WASTE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110622A	QC Batch: D11VW084	PrepDate:	Analyst: QBM			
sec-Butylbenzene	ND	0.098	1.0	µg/L	1	6/22/2011 11:48 PM
Styrene	ND	0.072	1.0	µg/L	1	6/22/2011 11:48 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	6/22/2011 11:48 PM
Tert-Butanol	2200	12	50	µg/L	10	6/22/2011 11:03 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	6/22/2011 11:48 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	6/22/2011 11:48 PM
Toluene	31	0.12	2.0	µg/L	1	6/22/2011 11:48 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	6/22/2011 11:48 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	6/22/2011 11:48 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	6/22/2011 11:48 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	6/22/2011 11:48 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	6/22/2011 11:48 PM
Xylenes, Total	82	1.5	2.0	µg/L	1	6/22/2011 11:48 PM
Surr: 1,2-Dichloroethane-d4	94.6	0	72-119	%REC	1	6/22/2011 11:48 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119	%REC	10	6/22/2011 11:03 PM
Surr: 4-Bromofluorobenzene	105	0	76-119	%REC	1	6/22/2011 11:48 PM
Surr: 4-Bromofluorobenzene	109	0	76-119	%REC	10	6/22/2011 11:03 PM
Surr: Dibromofluoromethane	92.0	0	85-115	%REC	1	6/22/2011 11:48 PM
Surr: Dibromofluoromethane	100	0	85-115	%REC	10	6/22/2011 11:03 PM
Surr: Toluene-d8	104	0	81-120	%REC	1	6/22/2011 11:48 PM
Surr: Toluene-d8	110	0	81-120	%REC	10	6/22/2011 11:03 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



Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL

Work Order: N005997

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-37170	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 6/27/2011	RunNo: 80530						
Client ID: PBW	Batch ID: 37170	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 6/27/2011	SeqNo: 1280146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH/Fuel Product

46.873

50

Surr: Octacosane

79.052

80.00

26

152

Surr: p-Terphenyl

80.627

80.00

57

132

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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8015_W_GSFPP

Sample ID: E110623LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80500						
Client ID: LCSW	Batch ID: E11VW031	TestNo: EPA 8015B		Analysis Date: 6/23/2011	SeqNo: 1279510						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	834.000	100	1000	0	83.4	67	136				
Surr: Chlorobenzene - d5	45.231		50.00		90.5	74	138				

Sample ID: E110623MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80500						
Client ID: PBW	Batch ID: E11VW031	TestNo: EPA 8015B		Analysis Date: 6/23/2011	SeqNo: 1279511						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	ND	100			99.9	74	138				
Surr: Chlorobenzene - d5	49.947		50.00								

Sample ID: N005997-001AMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80500						
Client ID: ZZZZZ	Batch ID: E11VW031	TestNo: EPA 8015B		Analysis Date: 6/23/2011	SeqNo: 1279512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	2526.000	100	1000	1202	132	67	136				
Surr: Chlorobenzene - d5	50.102		50.00		100	74	138				

Sample ID: N005997-001MSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80500						
Client ID: ZZZZZ	Batch ID: E11VW031	TestNo: EPA 8015B		Analysis Date: 6/23/2011	SeqNo: 1279513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline	2328.000	100	1000	1202	113	67	136	2526	8.16	30	
Surr: Chlorobenzene - d5	47.417		50.00		94.8	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	



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: D110622LCS2	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491
Client ID: LCSW	Batch ID: D111VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279308

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.780	1.0	25.00	0	103	81	129				
1,1,1-Trichloroethane	23.590	1.0	25.00	0	94.4	67	132				
1,1,2,2-Tetrachloroethane	26.070	1.0	25.00	0	104	63	128				
1,1,2-Trichloroethane	25.410	1.0	25.00	0	102	75	125				
1,1-Dichloroethane	24.680	0.50	25.00	0	98.7	69	133				
1,1-Dichloroethene	25.220	1.0	25.00	0	101	68	130				
1,1-Dichloropropene	23.860	1.0	25.00	0	95.4	73	132				
1,2,3-Trichlorobenzene	26.170	1.0	25.00	0	105	67	137				
1,2,3-Trichloropropane	25.000	1.0	25.00	0	100	73	124				
1,2,4-Trichlorobenzene	26.000	1.0	25.00	0	104	66	134				
1,2,4-Trimethylbenzene	25.140	1.0	25.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	22.810	2.0	25.00	0	91.2	50	132				
1,2-Dibromoethane	25.450	1.0	25.00	0	102	80	121				
1,2-Dichlorobenzene	25.340	1.0	25.00	0	101	71	122				
1,2-Dichloroethane	27.930	0.50	25.00	0	112	69	132				
1,2-Dichloropropene	22.980	1.0	25.00	0	91.9	75	125				
1,3,5-Trimethylbenzene	25.010	1.0	25.00	0	100	74	131				
1,3-Dichlorobenzene	25.520	1.0	25.00	0	102	75	124				
1,3-Dichloropropane	25.080	1.0	25.00	0	100	73	126				
1,4-Dichlorobenzene	25.720	1.0	25.00	0	103	74	123				
2,2-Dichloropropane	19.640	1.0	25.00	0	78.6	69	137				
2-Butanone	303.430	10	250.0	0	121	49	136				
2-Chlorotoluene	25.500	1.0	25.00	0	102	73	126				
4-Chlorotoluene	25.330	1.0	25.00	0	101	74	128				
4-Isopropyltoluene	25.420	1.0	25.00	0	102	73	130				
4-Methyl-2-pentanone	301.340	10	250.0	0	121	58	134				
Acetone	335.800	10	250.0	0	134	40	135				
Acrolein	221.700	20	250.0	0	88.7	75	125				
Acrylonitrile	400.300	20	250.0	0	160	75	125				S
Benzene	24.010	1.0	25.00	0	96.0	81	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: N005997
Project: SEPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110622LCS2	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: LCSW	Batch ID: D111VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	25.110	1.0	25.00	0	100	76	124				
Bromochloromethane	26.370	1.0	25.00	0	105	65	129				
Bromodichloromethane	26.630	1.0	25.00	0	107	76	121				
Bromoform	25.140	1.0	25.00	0	101	69	128				
Bromomethane	26.200	1.0	25.00	0	105	53	141				
Carbon disulfide	23.190	1.0	25.00	0	92.8	75	125				
Carbon tetrachloride	21.130	1.0	25.00	0	84.5	66	138				
Chlorobenzene	25.380	1.0	25.00	0	102	81	122				
Chloroethane	29.740	1.0	25.00	0	119	58	133				
Chloroform	25.840	1.0	25.00	0	103	69	128				
Chloromethane	20.420	1.0	25.00	0	81.7	56	131				
cis-1,2-Dichloroethene	24.940	1.0	25.00	0	99.8	72	126				
cis-1,3-Dichloropropene	21.460	1.0	25.00	0	85.8	69	131				
Di-isopropyl ether	23.040	1.0	25.00	0	92.2	70	130				
Dibromochloromethane	24.240	1.0	25.00	0	97.0	66	133				
Dibromomethane	27.350	1.0	25.00	0	109	76	125				
Dichlorodifluoromethane	22.890	1.0	25.00	0	91.6	53	153				
Ethyl tert-butyl ether	21.480	1.0	25.00	0	85.9	70	130				
Ethylbenzene	25.710	1.0	25.00	0	103	73	127				
Freon-113	24.700	1.0	25.00	0	98.8	75	125				
Hexachlorobutadiene	26.290	1.0	25.00	0	105	67	131				
Isopropylbenzene	25.180	1.0	25.00	0	101	75	127				
m,p-Xylene	54.060	1.0	50.00	0	108	76	128				
Methylene chloride	23.460	2.0	25.00	0	93.8	63	137				
MTBE	21.710	1.0	25.00	0	86.8	65	123				
n-Butylbenzene	25.980	1.0	25.00	0	104	69	137				
n-Propylbenzene	25.510	1.0	25.00	0	102	72	129				
Naphthalene	24.690	1.0	25.00	0	98.8	54	138				
o-Xylene	25.710	1.0	25.00	0	103	80	121				
sec-Butylbenzene	25.590	1.0	25.00	0	102	72	127				

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: N005997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT
TestCode: 8260_WP_SFPP

Sample ID: D110622LCS2	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: LCSW	Batch ID: D11VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279308						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	25.900	1.0	25.00	0	104	65	134				
Tert-amyl methyl ether	20.790	1.0	25.00	0	83.2	70	130				
Tert-Butanol	109.970	5.0	125.0	0	88.0	70	130				
tert-Butylbenzene	24.830	1.0	25.00	0	99.3	70	129				
Tetrachloroethene	26.780	1.0	25.00	0	107	66	128				
Toluene	24.640	2.0	25.00	0	98.6	77	122				
trans-1,2-Dichloroethene	24.780	1.0	25.00	0	99.1	63	137				
trans-1,3-Dichloropropene	22.190	1.0	25.00	0	88.8	59	135				
Trichloroethene	23.810	1.0	25.00	0	95.2	70	127				
Trichlorofluoromethane	33.240	1.0	25.00	0	133	57	129				S
Vinyl chloride	24.500	1.0	25.00	0	98.0	50	134				
Xylenes, Total	79.770	2.0	75.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	26.680		25.00		107	72	119				
Surr: 4-Bromofluorobenzene	25.520		25.00		102	76	119				
Surr: Dibromofluoromethane	27.140		25.00		109	85	115				
Surr: Toluene-d8	25.250		25.00		101	81	120				

Sample ID: N005977-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D11VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	24.340	1.0	25.00	0	97.4	81	129				
1,1,1-Trichloroethane	22.590	1.0	25.00	0	90.4	67	132				
1,1,2,2-Tetrachloroethane	21.310	1.0	25.00	0	85.2	63	128				
1,1,2-Trichloroethane	22.250	1.0	25.00	0	89.0	75	125				
1,1-Dichloroethane	23.450	0.50	25.00	0	93.8	69	133				
1,1-Dichloroethene	24.880	1.0	25.00	0	99.5	68	130				
1,1-Dichloropropene	23.450	1.0	25.00	0	93.8	73	132				
1,2,3-Trichlorobenzene	24.650	1.0	25.00	0	98.6	67	137				
1,2,3-Trichloropropane	20.640	1.0	25.00	0	82.6	73	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: N005997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N005977-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D111VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	25.990	1.0	25.00	0	104	66	134				
1,2,4-Trimethylbenzene	25.090	1.0	25.00	0	100	74	132				
1,2-Dibromo-3-chloropropane	18.490	2.0	25.00	0	74.0	50	132				
1,2-Dibromoethane	22.370	1.0	25.00	0	89.5	80	121				
1,2-Dichlorobenzene	24.650	1.0	25.00	0	98.6	71	122				
1,2-Dichloroethane	25.080	0.50	25.00	0	100	69	132				
1,2-Dichloropropane	21.590	1.0	25.00	0	86.4	75	125				
1,3,5-Trimethylbenzene	25.550	1.0	25.00	0	102	74	131				
1,3-Dichlorobenzene	25.890	1.0	25.00	0	104	75	124				
1,3-Dichloropropane	22.340	1.0	25.00	0	89.4	73	126				
1,4-Dichlorobenzene	25.590	1.0	25.00	0	102	74	123				
2,2-Dichloropropane	18.440	1.0	25.00	0	73.8	69	137				S
2-Butanone	96.060	10	250.0	0	38.4	49	136				
2-Chlorotoluene	25.830	1.0	25.00	0	103	73	126				
4-Chlorotoluene	25.480	1.0	25.00	0	102	74	128				
4-Isopropyltoluene	26.360	1.0	25.00	0	105	73	130				
4-Methyl-2-pentanone	201.800	10	250.0	0	80.7	58	134				S
Acetone	77.970	10	250.0	0	31.2	40	135				S
Acrolein	181.730	20	250.0	0	72.7	75	125				S
Acrylonitrile	319.340	20	250.0	0	128	75	125				S
Benzene	23.530	1.0	25.00	0	94.1	81	122				
Bromobenzene	24.160	1.0	25.00	0	96.6	76	124				
Bromochloromethane	23.390	1.0	25.00	0	93.6	65	129				
Bromodichloromethane	25.130	1.0	25.00	0	101	76	121				
Bromoform	21.280	1.0	25.00	0	85.1	69	128				
Bromomethane	26.640	1.0	25.00	0	107	53	141				
Carbon disulfide	22.250	1.0	25.00	0	89.0	75	125				
Carbon tetrachloride	20.650	1.0	25.00	0	82.6	66	138				
Chlorobenzene	25.140	1.0	25.00	0	101	81	122				
Chloroethane	30.100	1.0	25.00	0	120	58	133				

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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005977-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D111VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	27.970	1.0	25.00	3.010	99.8	69	128				
Chloromethane	21.350	1.0	25.00	0	85.4	56	131				
cis-1,2-Dichloroethene	23.760	1.0	25.00	0	95.0	72	126				
cis-1,3-Dichloropropene	20.580	1.0	25.00	0	82.3	69	131				
Di-isopropyl ether	21.450	1.0	25.00	0	85.8	70	130				
Dibromochloromethane	22.120	1.0	25.00	0	88.5	66	133				
Dibromomethane	23.680	1.0	25.00	0	94.7	76	125				
Dichlorodifluoromethane	24.010	1.0	25.00	0	96.0	53	153				
Ethyl tert-butyl ether	19.980	1.0	25.00	0	79.9	70	130				
Ethylbenzene	26.030	1.0	25.00	0	104	73	127				
Freon-113	23.330	1.0	25.00	0	93.3	75	125				
Hexachlorobutadiene	27.620	1.0	25.00	0	110	67	131				
Isopropylbenzene	26.070	1.0	25.00	0.4700	102	75	127				
m,p-Xylene	54.650	1.0	50.00	0	109	76	128				
Methylene chloride	22.440	2.0	25.00	0.3700	88.3	63	137				
MTBE	19.600	1.0	25.00	0	78.4	65	123				
n-Butylbenzene	27.510	1.0	25.00	0	110	69	137				
n-Propylbenzene	26.290	1.0	25.00	0	105	72	129				
Naphthalene	20.740	1.0	25.00	0	83.0	54	138				
o-Xylene	25.950	1.0	25.00	0	104	80	121				
sec-Butylbenzene	26.640	1.0	25.00	0	107	72	127				
Styrene	24.830	1.0	25.00	0	99.3	65	134				
Tert-amyl methyl ether	18.990	1.0	25.00	0	76.0	70	130				
Tert-Butanol	88.760	5.0	125.00	0	71.0	70	130				
tert-Butylbenzene	25.810	1.0	25.00	0	103	70	129				
Tetrachloroethene	29.770	1.0	25.00	2.750	108	66	128				
Toluene	24.710	2.0	25.00	0	98.8	77	122				
trans-1,2-Dichloroethene	23.440	1.0	25.00	0	93.8	63	137				
trans-1,3-Dichloropropene	20.130	1.0	25.00	0	80.5	59	135				
Trichloroethene	23.260	1.0	25.00	0	93.0	70	127				

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005977-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D11VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	32.310	1.0	25.00	0	129	57	129				S
Vinyl chloride	25.190	1.0	25.00	0	101	50	134				
Xylenes, Total	80.600	2.0	75.00	0	107	75	125				
Surr: 1,2-Dichloroethane-d4	23.820		25.00		95.3	72	119				
Surr: 4-Bromofluorobenzene	25.450		25.00		102	76	119				
Surr: Dibromofluoromethane	25.480		25.00		102	85	115				
Surr: Toluene-d8	25.320		25.00		101	81	120				

Sample ID: N005977-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D11VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279310						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	24.250	1.0	25.00	0	97.0	81	129	24.34	0.370	20	
1,1,1-Trichloroethane	22.490	1.0	25.00	0	90.0	67	132	22.59	0.444	20	
1,1,2,2-Tetrachloroethane	22.190	1.0	25.00	0	88.8	63	128	21.31	4.05	20	
1,1,2-Trichloroethane	23.090	1.0	25.00	0	92.4	75	125	22.25	3.71	20	
1,1-Dichloroethane	23.880	0.50	25.00	0	95.5	69	133	23.45	1.82	20	
1,1-Dichloroethene	24.980	1.0	25.00	0	99.9	68	130	24.88	0.401	20	
1,1-Dichloropropene	23.550	1.0	25.00	0	94.2	73	132	23.45	0.426	20	
1,2,3-Trichlorobenzene	24.860	1.0	25.00	0	99.4	67	137	24.65	0.848	20	
1,2,3-Trichloropropane	21.710	1.0	25.00	0	86.8	73	124	20.64	5.05	20	
1,2,4-Trichlorobenzene	26.030	1.0	25.00	0	104	66	134	25.99	0.154	20	
1,2,4-Trimethylbenzene	24.980	1.0	25.00	0	99.9	74	132	25.09	0.439	20	
1,2-Dibromo-3-chloropropane	18.710	2.0	25.00	0	74.8	50	132	18.49	1.18	20	
1,2-Dibromoethane	22.680	1.0	25.00	0	90.7	80	121	22.37	1.38	20	
1,2-Dichlorobenzene	24.430	1.0	25.00	0	97.7	71	122	24.65	0.896	20	
1,2-Dichloroethane	25.190	0.50	25.00	0	101	69	132	25.08	0.438	20	
1,2-Dichloropropane	22.460	1.0	25.00	0	89.8	75	125	21.59	3.95	20	
1,3,5-Trimethylbenzene	25.180	1.0	25.00	0	101	74	131	25.55	1.46	20	
1,3-Dichlorobenzene	25.740	1.0	25.00	0	103	75	124	25.89	0.581	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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005977-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D111VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279310						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	22.650	1.0	25.00	0	90.6	73	126	22.34	1.38	20	
1,4-Dichlorobenzene	25.540	1.0	25.00	0	102	74	123	25.59	0.196	20	
2,2-Dichloropropane	18.650	1.0	25.00	0	74.6	69	137	18.44	1.13	20	
2-Butanone	106.960	10	250.0	0	42.8	49	136	96.06	10.7	20	S
2-Chlorotoluene	25.710	1.0	25.00	0	103	73	126	25.83	0.466	20	
4-Chlorotoluene	25.360	1.0	25.00	0	101	74	128	25.48	0.472	20	
4-Isopropyltoluene	26.390	1.0	25.00	0	106	73	130	26.36	0.114	20	
4-Methyl-2-pentanone	217.440	10	250.0	0	87.0	58	134	201.8	7.46	20	S
Acetone	84.450	10	250.0	0	33.8	40	135	77.97	7.98	20	S
Acrolein	184.970	20	250.0	0	74.0	75	125	181.7	1.77	20	S
Acrylonitrile	343.180	20	250.0	0	137	75	125	319.3	7.20	20	S
Benzene	23.930	1.0	25.00	0	95.7	81	122	23.53	1.69	20	
Bromobenzene	24.180	1.0	25.00	0	96.7	76	124	24.16	0.0827	20	
Bromochloromethane	24.690	1.0	25.00	0	98.8	65	129	23.39	5.41	20	
Bromodichloromethane	25.450	1.0	25.00	0	102	76	121	25.13	1.27	20	
Bromoform	22.050	1.0	25.00	0	88.2	69	128	21.28	3.55	20	
Bromomethane	27.170	1.0	25.00	0	109	53	141	26.64	1.97	20	
Carbon disulfide	22.410	1.0	25.00	0	89.6	75	125	22.25	0.717	20	
Carbon tetrachloride	20.860	1.0	25.00	0	83.4	66	138	20.65	1.01	20	
Chlorobenzene	25.040	1.0	25.00	0	100	81	122	25.14	0.399	20	
Chloroethane	30.030	1.0	25.00	0	120	58	133	30.10	0.233	20	
Chloroform	27.670	1.0	25.00	3.010	98.6	69	128	27.97	1.08	20	
Chloromethane	22.100	1.0	25.00	0	88.4	56	131	21.35	3.45	20	
cis-1,2-Dichloroethene	24.220	1.0	25.00	0	96.9	72	126	23.76	1.92	20	
cis-1,3-Dichloropropene	21.010	1.0	25.00	0	84.0	69	131	20.58	2.07	20	
Di-isopropyl ether	21.800	1.0	25.00	0	87.2	70	130	21.45	1.62	20	
Dibromochloromethane	22.260	1.0	25.00	0	89.0	66	133	22.12	0.631	20	
Dibromomethane	24.910	1.0	25.00	0	99.6	76	125	23.68	5.06	20	
Dichlorodifluoromethane	24.400	1.0	25.00	0	97.6	53	153	24.01	1.61	20	
Ethyl tert-butyl ether	20.170	1.0	25.00	0	80.7	70	130	19.98	0.946	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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N005977-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80491						
Client ID: ZZZZZZ	Batch ID: D11VW084	TestNo: EPA 8260B		Analysis Date: 6/22/2011	SeqNo: 1279310						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	25.950	1.0	25.00	0	104	73	127	26.03	0.308	20	
Freon-113	23.270	1.0	25.00	0	93.1	75	125	23.33	0.258	20	
Hexachlorobutadiene	27.510	1.0	25.00	0	110	67	131	27.62	0.399	20	
Isopropylbenzene	25.710	1.0	25.00	0.4700	101	75	127	26.07	1.39	20	
m,p-Xylene	54.390	1.0	50.00	0	109	76	128	54.65	0.477	20	
Methylene chloride	22.760	2.0	25.00	0.3700	89.6	63	137	22.44	1.42	20	
MTBE	19.950	1.0	25.00	0	79.8	65	123	19.60	1.77	20	
n-Butylbenzene	27.260	1.0	25.00	0	109	69	137	27.51	0.913	20	
n-Propylbenzene	25.890	1.0	25.00	0	104	72	129	26.29	1.53	20	
Naphthalene	21.300	1.0	25.00	0	85.2	54	138	20.74	2.66	20	
o-Xylene	25.680	1.0	25.00	0	103	80	121	25.95	1.05	20	
sec-Butylbenzene	26.390	1.0	25.00	0	106	72	127	26.64	0.943	20	
Styrene	24.780	1.0	25.00	0	99.1	65	134	24.83	0.202	20	
Tert-amyl methyl ether	19.460	1.0	25.00	0	77.8	70	130	18.99	2.44	20	
Tert-Butanol	94.520	5.0	125.0	0	75.6	70	130	88.76	6.29	20	
tert-Butylbenzene	25.500	1.0	25.00	0	102	70	129	25.81	1.21	20	
Tetrachloroethene	28.910	1.0	25.00	2.750	105	66	128	29.77	2.93	20	
Toluene	24.830	2.0	25.00	0	99.3	77	122	24.71	0.484	20	
trans-1,2-Dichloroethene	23.780	1.0	25.00	0	95.1	63	137	23.44	1.44	20	
trans-1,3-Dichloropropene	20.210	1.0	25.00	0	80.8	59	135	20.13	0.397	20	
Trichloroethene	23.120	1.0	25.00	0	92.5	70	127	23.26	0.604	20	
Trichlorofluoromethane	32.240	1.0	25.00	0	129	57	129	32.31	0.217	20	
Vinyl chloride	25.570	1.0	25.00	0	102	50	134	25.19	1.50	20	
Xylenes, Total	80.070	2.0	75.00	0	107	75	125	80.60	0.660	20	
Surr: 1,2-Dichloroethane-d4	24.290		25.00		97.2	72	119		0		
Surr: 4-Bromofluorobenzene	25.650		25.00		103	76	119		0		
Surr: Dibromofluoromethane	25.880		25.00		104	85	115		0		
Surr: Toluene-d8	25.560		25.00		102	81	120		0		

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: D110622MB4	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L
Client ID: PBW	Batch ID: D111VW084	TestNo: EPA 8260B	
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

RunNo: **80491**
 SeqNo: **1279311**

Prep Date:
 Analysis Date: **6/22/2011**

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									
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									

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: D110622MB4	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 80491								
Client ID: PBW	Batch ID: D111VW084	TestNo: EPA 8260B		SeqNo: 1279311								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD	Ref Val	%RPD	RPDLimit	Qual

Bromobenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl tert-butyl ether	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon-113	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.420	2.0	0.420	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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CLIENT: CH2M HILL
Work Order: N005997
Project: SEPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT
TestCode: 8260_WP_SFPP

Sample ID: **D110622MB4** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **80491**
 Client ID: **PBW** Batch ID: **D11VW084** TestNo: **EPA 8260B** Analysis Date: **6/22/2011** SeqNo: **1279311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
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	28.960		25.00		116	72		119			
Surr: 4-Bromofluorobenzene	27.690		25.00		111	76		119			
Surr: Dibromofluoromethane	26.820		25.00		107	85		115			
Surr: Toluene-d8	28.410		25.00		114	81		120			

Qualifiers:
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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: 6/22/2011 Workorder: N005997
 Rep sample Temp (Deg C): 5.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: OnTrac
 Last 4 digits of Tracking No.: 1271 Packing Material Used: Paper
 Cooling process: Ice Ice Pack Dry Ice Other None

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

Comments:

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Checklist Completed By NS ch2014

Reviewed By: cy 6/23/11

