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

Prepared for
Kinder Morgan Energy Partners, L.P.

1100 Town & Country Road
Orange, California 92868

October 15, 2011



6 Hutton Centre Drive, Suite 700
Santa Ana, California 92707

Signature Page

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.



Mark Wuttig
CH2M HILL
California Professional Geologist, No. 6820

October 14, 2011

Date

Contents

Section	Page
Acronyms and Abbreviations	III
1. Introduction.....	1-1
2. Remediation Systems	2-1
3. Operations and Maintenance.....	3-1
4. Summary of Remediation Progress	4-1
5. System Evaluation and Optimization	5-1
6. Planned Fourth Quarter 2011 Activities	6-1
7. References	7-1

Appendix

A Laboratory Analytical Reports

Tables

1	Remediation Well Construction and Status
2	Vapor Remediation System Operation Summary
3	Groundwater Remediation System Operation Summary
4	Extracted Vapor Analytical Results
5	Extracted Groundwater Analytical Results
6	Remediation Well Vapor Concentrations
7	Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

Figures

1	Site Location Map
2	Remediation System Layout

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
OWS	oil-water separator
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 third 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 July through September 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 July through September 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 (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 8,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge in accordance with a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0063509, CI No. 7497).

A summary of remediation wells in the south-central, southeastern, and 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 third 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 a new chart recorder to document air flow and temperatures for the SVE system and daily flow for the TFE/GWE system
- Replacement of total influent, southeastern influent, and total effluent flowmeters and flow sensors
- Installation of flow totalizers to all the south-central wells
- Installation of an automatic ball valve upgradient of the OWS and solenoid valves to the pneumatic pump air compressors
- Cleaning of the OWS, transfer tank, and equalization tank, and replacement of the OWS media
- Connection of alarm signals for the SVE and TFE/GWE system to an automated notification system (autodialer)
- Replacement of one of the polishing LGAC vessels due to a damage seal

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

- On June 27, 2011, the SVE system was turned off to repair the actuator and motor for the dilution and process valves and to install a digital chart recorder. The SVE system was back online on July 12, 2011.
- On July 26, 27, and 29, 2011, the TFE/GWE system was off on arrival due to a high water level in the transfer tank. On July 26 and 27, 2011, the high level was thought to be the result of clogged bag filters. Therefore, the bag filters were replaced and the system was restarted on the same day. On July 29, 2011, the transfer pump was discovered to be faulty and may have been the reason for the system shutdowns on July 26 and 27, 2011. The pump motor was repaired, and the system was restarted on the same day.
- The SVE system was turned off on August 5, 2011, to remove condensate from the SVE well manifold at the treatment pad. It was restarted on the same day.
- On August 12 and 15, and September 6, 2011, the system was off on arrival due to a high level in the product tank. Free product was not found inside the product tank. Sludge material in the OWS was causing water to drain into the product tank, which caused a high level to occur. On August 12 and 15, the sludge material was removed, and the OWS was cleaned by the technicians. The product tank was also drained and the system restarted the same day. On September 6, 2011, the media inside the OWS was replaced, and the OWS and transfer tank were cleaned with a pressure washer. Unexpected shutdowns due to groundwater flowing into the product tank have not occurred since the media inside the OWS was replaced.
- From August 15 through August 17, 2011, the TFE/GWE system was turned off for system upgrades, which included installation of an automated 3-inch ball valve upgradient of the OWS, installation of the total effluent, total influent, and southeastern influent flowmeters and flow sensors, and installation of flow totalizers for the south-central wells.
- The SVE and TFE/GWE system was turned off on August 23, 2011, to connect alarm signals from the SVE and TFE/GWE control panels to an automated notification system (autodialer) to inform technicians of a system shutdown.
- On August 29 and 30, and September 7, 2011, the system was off on arrival due to a high level in the equalization tank upgradient of the FBBRs. The bag filters for the FBBRs and polishing LGAC vessels were clogged with fine-grained material causing a decrease in flow through the FBBRs and polishing LGAC vessels. This decrease in flow caused water in the equalization tank to reach a high level and turn the entire treatment system off. On August 29 and 30, 2011, the bag filters were replaced, and the system was restarted on the same day. On September 7, 2011, fines were removed from the lead polishing LGAC vessel; however, when trying to close the vessel, the technicians could not get a proper seal due to a damaged cap. The lead LGAC vessel was therefore bypassed and the secondary LGAC vessel was utilized for polishing. The treatment system was restarted that same day. On September 13, 2011, the lead polishing vessel was replaced and filled with new carbon.
- On September 9, 2011, the system was turned off so that KMEP's remediation contractor, American Integrated Services, could make some repairs to the treatment system flow/totalizer meters and extraction well box enclosures. Glue was applied and required at

least 24 hours to cure; therefore, the system remained off during the weekend and was restarted on September 13, 2011.

- The SVE system was down on September 16, 2011, due to low pressure in the natural gas line that feeds the burner for the SVE system. It is believed that the low pressure was a result of the ruptured natural gas line near the truck fill stand (the SVE natural gas feed line and natural gas line near the truck fill stand are likely connected). The gas line was ruptured as a result of the military's demolition activities in that area. The system was restarted on September 19, 2011, after the gas line was repaired and adequate gas pressure was restored to the SVE system. An attempt will be made to trace the gas line from the truck fill stand area to the SVE system, then cut and cap the line near SFPP's remediation pad.
- The SVE system was shut down on September 19, 2011, for 3 days and again on September 27, 2011, through the end of the month as a result of mechanical issues with the SVE flow sensor. It is anticipated that KMEP's remediation contractor, Northstar, will replace the sensor in early October 2011.
- Frequent shutdowns of the treatment system continued during September 2011 due to high water levels in the equalization tank. The reason for the frequent shutdowns was the presence of fine particulates clogging the FBBR bag filters and lead polishing LGAC vessel. The particulates are believed to be carbonates precipitating from the pretreated groundwater. The pH of the pretreated groundwater will be adjusted in order to eliminate the formation of these carbonate precipitates.

Overall, during the third quarter 2011, the SVE system operated approximately 76 percent of the time, while the TFE/GWE system operated approximately 68 percent of the time.

Vapor samples from the SVE system influent and water samples from TFE/GWE system influent were collected during the third quarter 2011 when the systems were in operation. During the third quarter 2011, influent vapor samples were collected on July 19, August 16, and September 20, 2011, when the SVE system was operating. Influent water samples were collected on July 27, August 26, and September 23, 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. Due to issues with the laboratory, the September 20, 2011, sample was not analyzed for fixed gases. Due to the SVE shutdowns at the end of September 2011, additional influent samples to analyze for fixed gases could not be collected.
- 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). TPH-fp was not analyzed for the sample collected on July 27, 2011, but was analyzed for TPH-diesel and TPH-oil 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. Depths to product and groundwater of the TFE/GWE and SVE wells were measured during the third quarter 2011 to the nearest 0.01 foot from the top of the well casing using an interface probe in selected wells. The gauging results are summarized in Table 7.

4. Summary of Remediation Progress

Based on weekly monitoring of the influent vapor concentration, vapor extraction flow rate, and hours of operation, the total mass of VOCs removed by SVE was approximately 6,516 pounds during the third quarter 2011, for a cumulative mass removal of approximately 34,738 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 1,965,087 gallons of groundwater was extracted during the third quarter 2011 (Table 3). The southeastern and south-central area influent quantities were not calculated for the third quarter 2011 since the southeastern area influent meter was inoperable. It is expected that the southeastern area influent meter will be operable in October 2011. No water was extracted from the WSB area during the third quarter 2011.

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 third 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 136 pounds during the third quarter 2011, for a cumulative mass removed from these areas of approximately 1,542 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 third quarter 2011, vapor-phase VOC concentrations were measured in individual wells using a PID on July 15, August 16, and September 20, 2011, as shown in Table 6. The operation status of the SVE wells at the end of the third quarter 2011 is also shown in Table 6. PID readings recorded on July 15, August 16, and September 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.

Groundwater monitoring in the WSB region during the third 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. 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 third quarter 2011, there were four TFE/GWE wells online from the south-central area (MW-SF-3, MW-SF-13, MW-SF-15, and MW-SF-16) and three wells from the southeastern area (GMW-O-15, GMW-O-18, and GMW-36). Additional extraction wells will be brought online during the fourth quarter 2011, as needed.

During the third quarter 2011, the LGAC vessels downgradient of the OWS were not changed out. The two FBBRs, in addition to removing TBA from the process water, were 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 LGAC vessels downgradient of the OWS did not occur. The lead polishing LGAC vessel was changed out once in the third quarter due to a damaged cap.

6. Planned Fourth Quarter 2011 Activities

During the fourth quarter 2011, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance activities are planned to be completed during the fourth quarter 2011:

- Connection of the total influent and total effluent flowmeters and totalizers to the digital chart recorder
- Connection of the electrical wiring to the southeastern area influent meter
- Installation of an independent power panel so that the chart recorder can operate independent of a power failure to the SVE or TFE/GWE system
- Replacement of the existing 8,000-gallon equalization tank with a new 2,500-gallon equalization tank
- Installation of a proportion controller upstream of the OWS to optimize flow control through the treatment system
- Raising of the concrete berms to the remediation containment pads to provide additional secondary containment capacity

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 fourth quarter 2011 will be described in the fourth quarter 2011 remediation progress report to be submitted by January 15, 2012.

7. References

- AMEC. 2010a. Letter to Mr. Paul Cho, California Regional Water Quality Control Board. Selenium Management Evaluation Update, Defense Fuel Support Point Norwalk. June 10.
- AMEC. 2010b. *Remediation Progress Report, First Quarter 2010, Defense Fuel Support Point Norwalk*. April 15.
- AMEC. 2010c. *Remediation Progress Report, Second Quarter 2010, Defense Fuel Support Point Norwalk*. July 15.
- California Regional Water Quality Control Board, Los Angeles Region (RWQCB). 2006. Letter to Mr. Kola Olowu, Defense Energy Support Center, Los Angeles, and Mr. Michael Pitta, Kinder Morgan Energy Partners; Conditional Approval of Revised Remedial Action Plan and Second Addendum to Remedial Action Plan for the Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk (SLIC No. 0286A, DOD No. 16638). October 25.
- CH2M HILL. 2010. *Third Quarter 2010 Remediation Progress Report, Defense Fuel Support Point Norwalk, California*. October 15.
- CH2M HILL. 2011a. *Fourth Quarter 2010 Remediation Progress Report and Annual 2010 Summary, Defense Fuel Support Point Norwalk, California*. January 14.
- CH2M HILL. 2011b. *Remediation System Operational Status, January 2011, Defense Fuel Support Point (DFSP), Norwalk*. February 15.
- CH2M HILL. 2011c. *Remediation System Operational Status, February 2011, Defense Fuel Support Point (DFSP), Norwalk*. March 15.
- CH2M HILL. 2011d. *Remediation System Operational Status, March 2011, Defense Fuel Support Point (DFSP), Norwalk*. April 12.
- CH2M HILL. 2011e. *Remediation System Operational Status, April 2011, Defense Fuel Support Point (DFSP), Norwalk*. May 13.
- CH2M HILL. 2011f. *Remediation System Operational Status, May 2011, Defense Fuel Support Point (DFSP), Norwalk*. June 15.
- CH2M HILL. 2011g. *Remediation System Operational Status, June 2011, Defense Fuel Support Point (DFSP), Norwalk*. July 15.
- CH2M HILL. 2011h. *Draft First Semiannual 2011 Groundwater Monitoring Report, Defense Fuel Support Point, Norwalk, California*. July 7.
- Geomatrix Consultants, Inc. (Geomatrix). 1999. *Risk-Based Corrective Action, Western 1,2-DCA and MTBE Plumes*. February.
- Geomatrix Consultants, Inc. (Geomatrix). 2006. *Second Addendum to Remedial Action Plan, Defense Fuel Support Point Norwalk, Norwalk, California*. November 30.

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

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 Third 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	OFF	ON
	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	ON	OFF
	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	ON
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON	OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	ON
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	ON
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF	OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON	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	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
Second Quarter 2011 Totals	75,346	1,612	--	--	--	--	1,153
07/15/11	75,413	67	--	85	2,050	50	173
07/19/11	75,509	95	80	193	1,654	60	455
07/22/11	75,580	71	--	--	1,681	60	345 ⁵
07/26/11	75,678	98	--	82	1,661	60	201
07/27/11	75,697	19	--	--	1,640	60	39 ⁵
07/29/11	75,749	52	--	--	1,679	60	107 ⁵
08/02/11	75,844	95	--	118	1,689	60	286
08/05/11	75,915	71	--	--	1,991	60	250 ⁵
08/09/11	76,009	94	--	130	2,288	60	416
08/12/11	76,081	72	--	--	1,833	60	256 ⁵
08/16/11	76,175	94	140	62	1,735	60	153
08/19/11	76,246	71	--	--	1,720	65	113 ⁵
08/23/11	76,343	98	--	198	1,804	65	522
08/26/11	76,413	70	--	--	1,978	65	408 ⁵
08/30/11	76,508	95	--	78	1,949	65	217
09/02/11	76,580	72	--	--	2,252	65	191 ⁵
09/06/11	76,673	93	--	--	2,413	66	262 ⁵
09/09/11	76,743	70	--	87	2,566	68	234
09/13/11	76,838	95	--	82	2,209	60	257
09/16/11	76,910	72	--	--	2,093	55	185 ⁵
09/20/11	76,933	23	100	222	2,895	65	224
09/23/11	76,962	29	--	--	1,866	60	182 ⁵
09/27/11	77,061	99	--	--	3167	64	1041 ⁵
Third Quarter 2011 Totals		1,714	--	--	--	--	6,516
Cumulative Mass Removed Since Implementation of RAP Upgrades⁴							34,738

Notes

1. The TPH-g concentration reflects analytical results for vapor samples collected from the influent of the vapor remediation system. Refer to Table 4 for a summary of analytical results for influent vapor samples.
2. The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.
3. The 2007 total includes only operation after upgrades were made to the south-central system.
4. Upgrades to the south-central system are described in the Second Addendum to Remedial Action Plan (Geomatrix, 2006).
5. Used previous PID reading to obtain mass removed.
6. 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) ⁶	Groundwater Removed from the Southeastern Area (gallons) ⁶	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (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	3,241,050	--	395
2008 Totals	5,391,860	700,882	405,954⁴	6,092,742	--	311
2009 Totals	8,044,836	770,869	0	8,815,705	--	161
2010 Totals	3,699,058	2,025,777	2,244	5,727,079	--	334
First Quarter 2011 Totals	2,820,685	314,343	0	3,135,028	--	142
Second Quarter 2011 Totals	2,084,092	822,385	0	2,906,477	--	63
07/02/11	--	--	0	19,463	1,200	0.19
07/03/11	--	--	0	22,135	1,200	0.22
07/04/11	--	--	0	26,252	1,200	0.26
07/05/11	--	--	0	20,828	1,200	0.21
07/06/11	--	--	0	25,534	1,200	0.25
07/07/11	--	--	0	25,534	1,200	0.25
07/08/11	--	--	0	25,534	1,200	0.25
07/09/11	--	--	0	9,588	1,200	0.10
07/10/11	--	--	0	9,588	1,200	0.10
07/11/11	--	--	0	9,588	1,200	0.10
07/12/11	--	--	0	10,303	1,200	0.10
07/13/11	--	--	0	19,090	1,200	0.19
07/14/11	--	--	0	18,400	1,200	0.18
07/15/11	--	--	0	19,110	1,200	0.19
07/16/11	--	--	0	27,840	1,200	0.28
07/17/11	--	--	0	27,530	1,200	0.27
07/18/11	--	--	0	22,250	1,200	0.22
07/19/11	--	--	0	15,540	1,200	0.16
07/20/11	--	--	0	20,790	1,200	0.21
07/21/11	--	--	0	18,430	1,200	0.18
07/22/11	--	--	0	28,310	1,200	0.28
07/23/11	--	--	0	11,760	1,200	0.12
07/24/11	--	--	0	0	1,200	0.00
07/25/11	--	--	0	0	1,200	0.00
07/26/11	--	--	0	8,130	1,200	0.08
07/27/11	--	--	0	32,520	14,000	3.79
07/28/11	--	--	0	34,160	14,000	3.98
07/29/11	--	--	0	21,240	14,000	2.47
07/30/11	--	--	0	29,410	14,000	3.42
07/31/11	--	--	0	37,470	14,000	4.36
08/01/11	--	--	0	35,870	14,000	4.18
08/02/11	--	--	0	36,270	14,000	4.22
08/03/11	--	--	0	39,590	14,000	4.61
08/04/11	--	--	0	37,240	14,000	4.34
08/05/11	--	--	0	41,970	14,000	4.89
08/06/11	--	--	0	50,390	14,000	5.87
08/07/11	--	--	0	49,190	14,000	5.73
08/08/11	--	--	0	32,530	14,000	3.79
08/09/11	--	--	0	29,320	14,000	3.41
08/10/11	--	--	0	17,670	14,000	2.06
08/11/11	--	--	0	0	14,000	0.00
08/12/11	--	--	0	13,480	14,000	1.57
08/13/11	--	--	0	13,110	14,000	1.53
08/14/11	--	--	0	0	14,000	0.00
08/15/11	--	--	0	14,670	14,000	1.71
08/16/11	--	--	0	8,190	14,000	0.95
08/17/11	--	--	0	10	14,000	0.00
08/18/11	--	--	0	7,180	14,000	0.84
08/19/11	--	--	0	3,970	14,000	0.46
08/20/11	--	--	0	0	14,000	0.00
08/21/11	--	--	0	0	14,000	0.00
08/22/11	--	--	0	19,110	14,000	2.22
08/23/11	--	--	0	18,820	14,000	2.19
08/24/11	--	--	0	38,730	14,000	4.51
08/25/11	--	--	0	48,290	14,000	5.62
08/26/11	--	--	0	49,820	7,400	3.07
08/27/11	--	--	0	51,560	7,400	3.17
08/28/11	--	--	0	51,480	7,400	3.17
08/29/11	--	--	0	26,170	7,400	1.61
08/30/11	--	--	0	8,090	7,400	0.50

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) ⁶	Groundwater Removed from the Southeastern Area (gallons) ⁶	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-g Concentration (µg/L) ¹	TPH-g Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ²
08/31/11	--	--	0	16,790	7,400	1.03
09/01/11	--	--	0	10	7,400	0.00
09/02/11	--	--	0	0	7,400	0.00
09/03/11	--	--	0	14,960	7,400	0.92
09/04/11	--	--	0	0	7,400	0.00
09/05/11	--	--	0	0	7,400	0.00
09/06/11	--	--	0	0	7,400	0.00
09/07/11	--	--	0	19,870	7,400	1.22
09/08/11	--	--	0	35,580	7,400	2.19
09/09/11	--	--	0	39,900	7,400	2.46
09/10/11	--	--	0	26,580	7,400	1.64
09/11/11	--	--	0	32,840	7,400	2.02
09/12/11	--	--	0	31,520	7,400	1.94
09/13/11	--	--	0	26,880	7,400	1.65
09/14/11	--	--	0	36,060	7,400	2.22
09/15/11	--	--	0	36,810	7,400	2.27
09/16/11	--	--	0	23,650	7,400	1.46
09/17/11	--	--	0	26,250	7,400	1.62
09/18/11	--	--	0	31,880	7,400	1.96
09/19/11	--	--	0	12,030	7,400	0.74
09/20/11	--	--	0	10,530	7,400	0.65
09/21/11	--	--	0	30,990	7,400	1.91
09/22/11	--	--	0	31,400	7,400	1.93
09/23/11	--	--	0	28,170	6,400	1.50
09/24/11	--	--	0	33,950	6,400	1.81
09/25/11	--	--	0	17,550	6,400	0.93
09/26/11	--	--	0	11,780	6,400	0.63
09/27/11	--	--	0	8,310	6,400	0.44
09/28/11	--	--	0	24,580	6,400	1.31
09/29/11	--	--	0	17,170	6,400	0.91
09/30/11	--	--	0	0	6,400	0.00
Third Quarter 2011 Totals	0	0	0	1,965,087	--	136
Cumulative TPH-g Removed Since Implementation of RAP Upgrades⁵						1,542

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).
- The southeastern and south-central area influent quantities were not calculated for the Third Quarter 2011 since the southeastern area influent meter was inoperable.

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
7/19/2011	ON	0.0056	0.49	22.0	80	1,800	130	2,200	1,000	<31
8/16/2011	ON	0.0026	0.31	22.0	140	3,000	600	4,000	2,330	490
9/20/2011	ON	--	--	--	100	2,100	740.0	2,700	2,040	660.0

Notes

- Influent vapor samples were collected from the manifold conveying soil vapors extracted from the south-central and southeastern areas.
- Other detected VOCs are included in the laboratory analytical reports in Appendix A.
- 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 level

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
7/27/2011	14,000	.. ⁴	2,800	150	490	2,100	350
8/26/2011	7,400	57,000	1,400	120	480	1,300	270
9/23/2011	6,400	2,800	2,800	83.0	160	340	300

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.
- July 27, 2011 sample was not analyzed for TPH-fp, but for TPH-diesel (10,000µg/L) and TPH-oil (44J µg/L).

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 Third Quarter 2011 ¹	7/15/2011 (ppmv as Hexane) ²	8/16/2011 (ppmv as Hexane) ²	9/20/2011 (ppmv as Hexane) ²
South-Central	MW-SF-1	SVE	OFF	1.9	22.1	0.0
	MW-SF-2	SVE; TFE	OFF; OFF	2.4	4.4	0.0
	MW-SF-3	SVE; TFE	OFF; ON	164.3	105.6	10.8
	MW-SF-4	SVE	OFF	1.2	2.1	0.0
	MW-SF-5	SVE	OFF	1.7	7.5	0.0
	MW-SF-6	SVE; TFE	OFF; OFF	2.3	11.5	0.5
	MW-SF-9	SVE	OFF	0.0	0.3	0.85
	MW-SF-10	SVE	OFF	0.4	5.2	2.6
	MW-SF-11	SVE; TFE	ON ; OFF	1.7	11.4	6.6
	MW-SF-12	SVE; TFE	ON ; OFF	12.1	192	24.7
	MW-SF-13	SVE; TFE	OFF; ON	4.4	45	5.4
	MW-SF-14	SVE; TFE	ON ; OFF	14.3	5.3	32.2
	MW-SF-15	SVE; TFE	OFF; ON	0.4	3.1	0.2
	MW-SF-16	SVE; TFE	ON ; ON	47.55	124.7	367.5
	GMW-9	SVE; TFE	OFF; OFF	0.4	0.8	0.0
	GMW-10	SVE	ON	36.9	399	420.2
	GMW-22	SVE; TFE	OFF; OFF	0.4	0.8	0.0
	GMW-24	SVE; TFE	OFF; OFF	23.7	55.7	2.9
	GMW-25	SVE; GWE	OFF; OFF	23.7	55.7	2.9
	GWR-3	SVE; GWE	ON ; OFF	16.6	267.4	5.5
	VEW-1	SVE	OFF	5.6	10.2	0.0
	VEW-2	SVE	OFF	2.9	15.8	0.1
	MW-O-1	SVE; TFE	ON ; OFF	4.0	21	6.4
	MW-O-2	SVE; TFE	ON ; OFF	1.2	3.2	0.0
	GMW-O-11	SVE; TFE	ON ; OFF	0.4	12.7	1.3
	GMW-O-12	SVE	ON	9.3	19.3	1.5
	GMW-O-20	SVE; TFE	ON ; OFF	52	381.2	9.2
	GMW-O-23	SVE; TFE	ON ; OFF	3.8	5.2	4.0
	MW-18 (MID)	SVE	OFF	2.8	0.8	4.4
	HW-2	SVE	OFF	3.5	14.9	1.1
	Southeastern	GMW-O-15	SVE; TFE	ON ; ON	928.1	1188
GMW-O-18		SVE; TFE	ON ; ON	928.1	1188	458.2

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	
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

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

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-36	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
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	

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

Well ID	Date Gauged	Top of Well Casing Elevation (ft msl)	Measured Depth to Groundwater (ft btoc)	Measured Depth to Product (ft btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (ft msl)	Gauged By
GMW-O-15	2/4/2010	74.23	25.50	25.48	0.02	---	Kinder Morgan Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech
	4/16/2010	74.23	23.10	---	---	51.13	
	5/24/2010	74.23	25.67	---	---	48.56	
	5/28/2010	74.23	25.35	---	---	48.88	
	6/22/2010	74.23	25.81	---	---	48.42	
	10/4/2010	74.23	25.85	25.80	0.05	---	
	11/23/2010	74.23	53.17	---	---	21.06	
	12/22/2010	74.23	26.31	---	---	47.92	
	1/10/2011	74.23	25.97	---	---	48.26	
	4/12/2011	74.23	22.55	22.53	0.02	---	
GMW-O-18	04/30/2007	74.36	24.21	---	---	50.15	Secor Secor Secor Stantec Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech Blaine Tech
	11/12/2007	74.36	22.46	---	---	51.90	
	04/14/2008	74.36	24.5	---	---	49.86	
	10/13/2008	74.36	25.46	---	---	48.90	
	4/20/2009	74.36	25.59	---	---	48.77	
	10/19/2009	74.36	26.31	---	---	48.05	
	3/15/2010	74.36	26.54	---	---	47.82	
	4/16/2010	74.36	24.25	---	---	50.11	
	5/24/2010	74.36	26.26	---	---	48.10	
	5/28/2010	74.36	26.03	---	---	48.33	
	10/4/2010	74.36	29.95	---	---	44.41	
	4/12/2011	74.36	22.88	---	---	51.48	
GMW-O-20	8/15/2008	73.32	25.90	---	---	47.42	Envent Envent Envent Envent Envent Envent Envent Envent Envent Envent Kinder Morgan Blaine Tech Blaine Tech Blaine Tech Blaine Tech
	10/17/2008	73.32	25.82	---	---	47.50	
	12/19/2008	73.32	27.15	---	---	46.17	
	1/15/2009	73.32	26.53	26.09	0.44	---	
	2/24/2009	73.32	27.85	---	---	45.47	
	3/20/2009	73.32	28.81	---	---	44.51	
	3/27/2009	73.32	27.84	---	---	45.48	
	4/21/2009	73.32	28.70	---	---	44.62	
	7/21/2009	73.32	24.10	---	---	49.22	
	11/9/2009	73.32	25.60	25.40	0.20	---	
	6/22/2010	73.32	24.76	24.66	0.10	---	
	10/4/2010	73.32	31.20	31.10	0.10	---	
	1/10/2011	73.32	26.62	26.48	0.14	---	
4/11/2011	73.32	23.82	---	---	49.50		
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix Envent Envent Envent Envent Kinder Morgan Blaine Tech Blaine Tech
	10/17/2008	71.43	26.00	---	---	45.43	
	12/19/2008	71.43	24.82	---	---	46.61	
	3/27/2009	71.43	26.41	---	---	45.02	
	7/21/2009	71.43	24.88	---	---	46.55	
	11/9/2009	71.43	25.02	---	---	46.41	
	10/4/2010	71.43	25.40	---	---	46.03	
	4/13/2011	71.43	23.72	---	---	47.71	
GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30	Geomatrix Geomatrix Stantec Geomatrix Geomatrix Geomatrix Stantec Geomatrix Envent Envent Envent Envent Envent Envent Envent Kinder Morgan Blaine Tech Blaine Tech
	8/21/2007	73.63	23.31	---	---	50.32	
	8/28/2007	73.63	23.00	---	---	50.63	
	9/11/2007	73.63	23.42	---	---	50.21	
	10/5/2007	73.63	27.79	---	---	45.84	
	11/2/2007	73.63	25.15	---	---	48.48	
	11/13/2007	73.63	23.90	---	---	49.73	
	12/28/2007	73.63	24.91	---	---	48.72	
	8/15/2008	73.63	26.28	---	---	47.35	
	10/17/2008	73.63	27.16	---	---	46.47	
	12/19/2008	73.63	27.60	---	---	46.03	
	1/15/2009	73.63	27.54	---	---	46.09	
	2/24/2009	73.63	26.19	---	---	47.44	
	3/27/2009	73.63	23.74	---	---	49.89	
	4/21/2009	73.63	27.30	---	---	46.33	
	11/9/2009	73.63	27.50	---	---	46.13	
	6/22/2010	73.63	32.10	---	---	41.53	
	10/4/2010	73.63	25.92	---	---	47.71	
1/10/2011	73.63	27.45	---	---	46.18		

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-23	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
	MW-18 (MID)	04/30/2007	75.67	29.77	---	---	45.9
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

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-1	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
	7/11/2011	78.93	29.84	---	---	49.09	Blaine Tech
MW-SF-2	11/12/2007	78.53	29.18	28.71	0.47	---	Stantec
	8/12/2008	78.53	31.11	---	---	47.42	Envent
	10/17/2008	78.53	31.55	31.50	0.05	---	Envent
	12/18/2008	78.53	32.75	32.55	0.20	---	Envent
	1/15/2009	78.53	30.84	30.57	0.27	---	Envent
	3/24/2009	78.53	28.85	---	---	49.68	Envent
	4/21/2009	78.53	29.98	---	---	48.55	Envent
	7/21/2009	78.53	29.85	---	---	48.68	Envent
	12/9/2009	78.53	31.45	---	---	47.08	Kindier 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	---	Kindier Morgan
	12/9/2009	78.12	30.53	---	---	48.05	Kindier Morgan
	9/3/2010	78.12	30.97	30.42	0.55	---	Kindier 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	

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-4	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
	7/11/2011	79.38	30.35	---	---	49.03	Blaine Tech
MW-SF-5	8/21/2007	79.74	28.36	---	---	51.38	Geomatrix
	8/28/2007	79.74	28.84	---	---	50.90	Stantec
	10/5/2007	79.74	29.50	---	---	50.24	Geomatrix
	11/2/2007	79.74	31.50	---	---	48.24	Geomatrix
	11/12/2007	79.74	29.93	---	---	49.81	Stantec
	12/21/2007	79.74	31.00	---	---	48.74	Geomatrix
	4/14/2008	79.74	30.20	---	---	49.54	Stantec
	8/11/2008	79.74	30.85	---	---	48.89	Stantec
	10/13/2008	79.74	30.93	---	---	48.81	Stantec
	4/20/2009	79.74	30.99	---	---	48.75	Blaine Tech
	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	---
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
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	

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	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	
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

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	12/9/2009	78.16	30.68	---	---	47.48	Kinder Morgan Blaine Tech Blaine Tech Blaine Tech
	6/22/2010	78.16	26.17	---	---	51.99	
	10/4/2010	78.16	30.54	---	---	47.62	
	4/12/2011	78.16	29.55	---	---	48.61	
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	

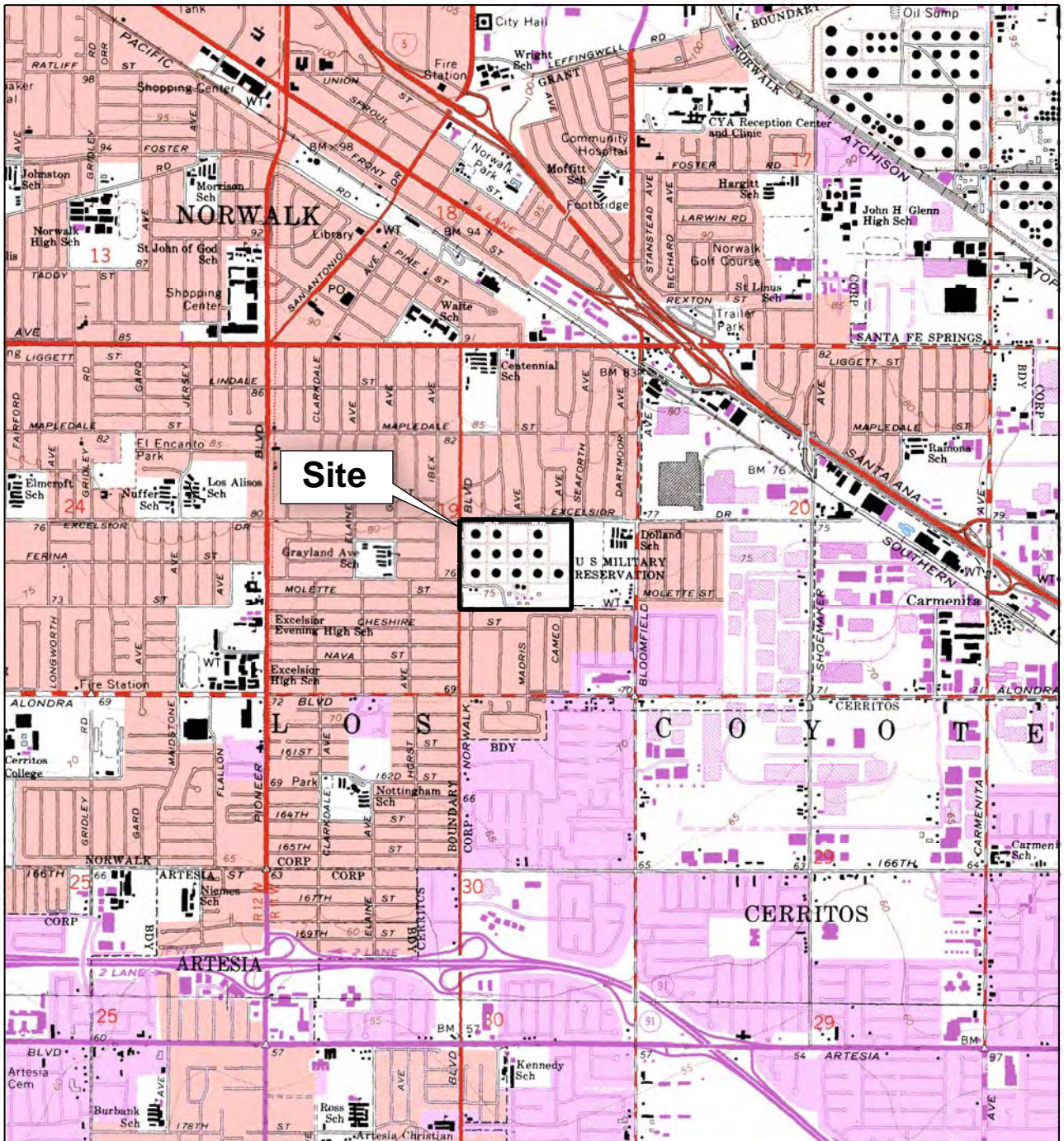
Abbreviations

ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929

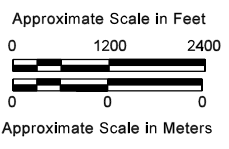
ft btoc = feet below top of casing

--- = not detected or not applicable

Figures



Site

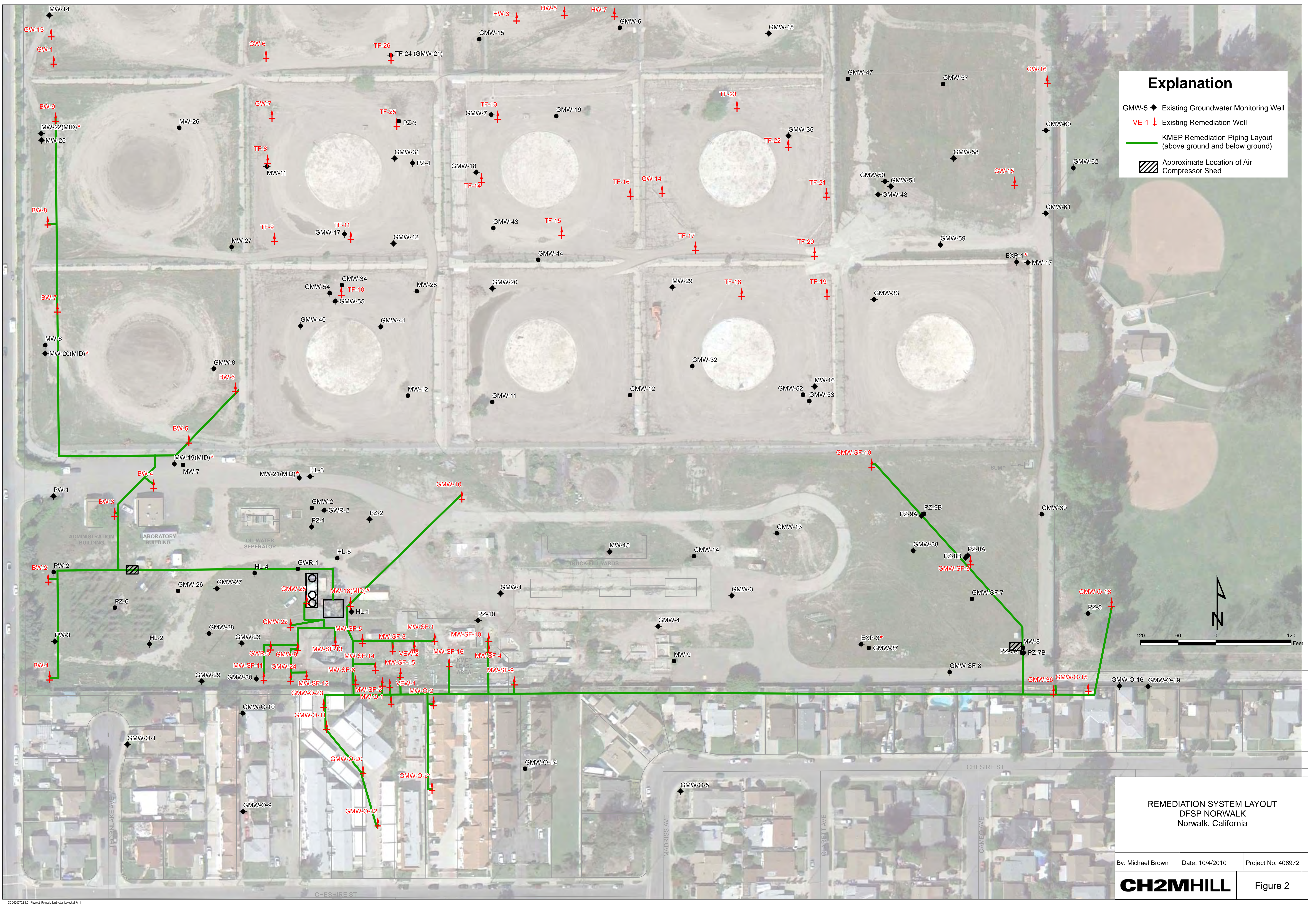


BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP
 LOS ALAMITOS 1964, CALIFORNIA, PHOTO-REVISED 1981.
 WHITTIER 1965, CALIFORNIA, PHOTO-REVISED 1981.

SITE LOCATION MAP

DFSP NORWALK
 Norwalk, California

By: Andy Vollmar	Date: July 21, 2010	Project No: 407609
CH2MHILL		Figure 1



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

SC04020701.01 Figure 2 RemediationSystemLayout.ai W11

Appendix A

Laboratory Analytical Reports

July 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.: N006139

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on July 19, 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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N006139

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 .


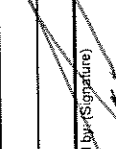


ASTM D1946 was subcontracted to Air Technology Laboratories-City of Industry, CA .



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: 07-19-11
 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_dwy@kindermorgan.com		CLIENT PROJECT NAME/NUMBER: SFP - Nonwalk 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"/>	
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 / /		REQUESTED ANALYSIS			
SPECIAL INSTRUCTIONS: Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		TO-15 <input checked="" type="checkbox"/> TO-3 (TPH-g) <input checked="" type="checkbox"/> ASTM-1946 (O2/Argon, CO2, CH4) <input checked="" type="checkbox"/>		Comments: Monthly sample	
LAB USE ONLY: VIN- 07 - 19 Influent Vapor (from header) 7-19-11 1000		LOCATION/ DESCRIPTION DATE TIME MAT- RIX Air 4		NO. OF CONT. Received by: (Signature)  Date: 7/19/11 Time: 12:19 Received by: (Signature)  Date: 7/19/11 Time: 12:48 Received by: (Signature)  Date: Date: Time:	

July 26, 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.: 119007

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on July 19, 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. 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: 26-Jul-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006139-001A / VINP-07-19
Lab Order: 119007 **Collection Date:** 7/19/2011 12:00:00 PM
Project: **Matrix:** AIR
Lab ID: 119007-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOCS IN AIR BY GCMS

EPA TO15

RunID: MS14_110720A	QC Batch: W11A089				PrepDate:	Analyst: DMP
1,1,1-Trichloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,1,1,2-Tetrachloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,1,2-Trichloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,1-Dichloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,1-Dichloroethene	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,2,4-Trichlorobenzene	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,2,4-Trimethylbenzene	58	31	ppbv	125	7/21/2011 12:43 AM	
1,2-Dibromoethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,2-Dichlorobenzene	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,2-Dichloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,2-Dichloropropane	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,3,5-Trimethylbenzene	32	31	ppbv	125	7/21/2011 12:43 AM	
1,3-Dichlorobenzene	ND	31	ppbv	125	7/21/2011 12:43 AM	
1,4-Dichlorobenzene	ND	31	ppbv	125	7/21/2011 12:43 AM	
2-Butanone	55	31	ppbv	125	7/21/2011 12:43 AM	
2-Hexanone	ND	31	ppbv	125	7/21/2011 12:43 AM	
4-Ethyl Toluene	ND	31	ppbv	125	7/21/2011 12:43 AM	
4-Methyl-2-pentanone	ND	31	ppbv	125	7/21/2011 12:43 AM	
Acetone	ND	31	ppbv	125	7/21/2011 12:43 AM	
Benzene	1800	31	ppbv	125	7/21/2011 12:43 AM	
Benzyl chloride	ND	31	ppbv	125	7/21/2011 12:43 AM	
Bromodichloromethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Bromoform	ND	31	ppbv	125	7/21/2011 12:43 AM	
Bromomethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Carbon disulfide	ND	31	ppbv	125	7/21/2011 12:43 AM	
Carbon tetrachloride	ND	31	ppbv	125	7/21/2011 12:43 AM	
Chlorobenzene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Chloroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Chloroform	ND	31	ppbv	125	7/21/2011 12:43 AM	
Chloromethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
cis-1,2-Dichloroethene	ND	31	ppbv	125	7/21/2011 12:43 AM	
cis-1,3-Dichloropropene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Dibromochloromethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Dichlorodifluoromethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Dichlorotetrafluoroethane	ND	31	ppbv	125	7/21/2011 12:43 AM	

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: 26-Jul-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006139-001A / VINP-07-19
Lab Order: 119007 **Collection Date:** 7/19/2011 12:00:00 PM
Project: **Matrix:** AIR
Lab ID: 119007-001A

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

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110720A	QC Batch:	W11A089	PrepDate:	Analyst:	DMP
Ethylbenzene	130	31	ppbv	125	7/21/2011 12:43 AM	
Freon-113	ND	31	ppbv	125	7/21/2011 12:43 AM	
Hexachlorobutadiene	ND	31	ppbv	125	7/21/2011 12:43 AM	
m,p-Xylene	750	31	ppbv	125	7/21/2011 12:43 AM	
MTBE	ND	31	ppbv	125	7/21/2011 12:43 AM	
Methylene chloride	ND	31	ppbv	125	7/21/2011 12:43 AM	
o-Xylene	250	31	ppbv	125	7/21/2011 12:43 AM	
Styrene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Tetrachloroethene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Toluene	2200	31	ppbv	125	7/21/2011 12:43 AM	
trans-1,2-Dichloroethene	ND	31	ppbv	125	7/21/2011 12:43 AM	
trans-1,3-Dichloropropene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Trichloroethene	ND	31	ppbv	125	7/21/2011 12:43 AM	
Trichlorofluoromethane	ND	31	ppbv	125	7/21/2011 12:43 AM	
Vinyl acetate	ND	31	ppbv	125	7/21/2011 12:43 AM	
Vinyl chloride	ND	31	ppbv	125	7/21/2011 12:43 AM	
Surr: 4-Bromofluorobenzene	107	70-130	%REC	125	7/21/2011 12:43 AM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110720B	QC Batch:	W11A089	PrepDate:	Analyst:	DMP
Gasoline	80	2.5	ppmv	125	7/21/2011 12:43 AM	
Surr: 4-Bromofluorobenzene	97.2	70-130	%REC	125	7/21/2011 12:43 AM	

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: 119007
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

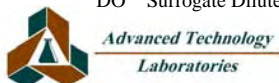
Sample ID: MB-W11A089	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135183						
Client ID: ZZZZZ	Batch ID: W11A089	TestNo: EPA TO3		Analysis Date: 7/21/2011	SeqNo: 2213001						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.010	0.020									
Surr: 4-Bromofluorobenzene	0.002		0.002500		81.6	70	130				

Sample ID: LCS-W11A089	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135183						
Client ID: ZZZZZ	Batch ID: W11A089	TestNo: EPA TO3		Analysis Date: 7/21/2011	SeqNo: 2213003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.189	0.020	0.2000	0.009690	89.8	70	130				
Surr: 4-Bromofluorobenzene	0.002		0.002500		91.6	70	130				

Sample ID: LCSD-W11A089	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135183						
Client ID: ZZZZZ	Batch ID: W11A089	TestNo: EPA TO3		Analysis Date: 7/21/2011	SeqNo: 2213004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.182	0.020	0.2000	0.009690	86.2	70	130	0.1893	3.95	20	
Surr: 4-Bromofluorobenzene	0.002		0.002500		91.6	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: 119007

Project:

ANALYTICAL QC SUMMARY REPORT

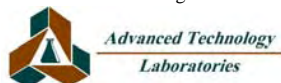
BatchID: W11A089

Sample ID: MB-W11A089	SampType: MBLK	TestCode: TO15_FULL	Units: ppbv	Prep Date:	RunNo: 135161
Client ID: ZZZZZZ	Batch ID: W11A089	TestNo: EPA TO15		Analysis Date: 7/20/2011	SeqNo: 2212963

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									

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: 119007

Project:

ANALYTICAL QC SUMMARY REPORT

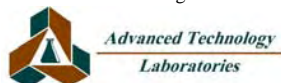
BatchID: W11A089

Sample ID: MB-W11A089	SampType: MBLK	TestCode: TO15_FULL	Units: ppbv	Prep Date:	RunNo: 135161						
Client ID: ZZZZZZ	Batch ID: W11A089	TestNo: EPA TO15		Analysis Date: 7/20/2011	SeqNo: 2212963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.25									
Chloromethane	ND	0.25									
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	2.590		2.500		104	70	130				

Sample ID: LCS-W11A089	SampType: LCS	TestCode: TO15_FULL	Units: ppbv	Prep Date:	RunNo: 135161						
Client ID: ZZZZZZ	Batch ID: W11A089	TestNo: EPA TO15		Analysis Date: 7/20/2011	SeqNo: 2212964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.860	0.25	2.000	0	93.0	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: 119007

Project:

ANALYTICAL QC SUMMARY REPORT

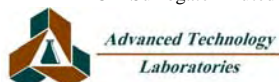
BatchID: W11A089

Sample ID: LCS-W11A089	SampType: LCS	TestCode: TO15_FULL	Units: ppbv	Prep Date:	RunNo: 135161						
Client ID: ZZZZZZ	Batch ID: W11A089	TestNo: EPA TO15	Analysis Date: 7/20/2011	SeqNo: 2212964							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.870	0.25	2.000	0	93.5	70	130				
Chloroform	1.840	0.25	2.000	0	92.0	70	130				
m,p-Xylene	3.820	0.25	4.000	0	95.5	70	130				
o-Xylene	1.960	0.25	2.000	0	98.0	70	130				
Tetrachloroethene	1.660	0.25	2.000	0	83.0	70	130				
Toluene	1.860	0.25	2.000	0	93.0	70	130				
Trichloroethene	1.680	0.25	2.000	0	84.0	70	130				
Vinyl chloride	2.070	0.25	2.000	0	104	70	130				
Surr: 4-Bromofluorobenzene	2.610		2.500		104	70	130				

Sample ID: LCSD-W11A089	SampType: LCSD	TestCode: TO15_FULL	Units: ppbv	Prep Date:	RunNo: 135161						
Client ID: ZZZZZZ	Batch ID: W11A089	TestNo: EPA TO15	Analysis Date: 7/20/2011	SeqNo: 2212965							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	2.150	0.25	2.000	0	108	70	130	1.860	14.5	20	
Benzene	1.750	0.25	2.000	0	87.5	70	130	1.870	6.63	20	
Chloroform	2.240	0.25	2.000	0	112	70	130	1.840	19.6	20	
m,p-Xylene	3.860	0.25	4.000	0	96.5	70	130	3.820	1.04	20	
o-Xylene	1.910	0.25	2.000	0	95.5	70	130	1.960	2.58	20	
Tetrachloroethene	1.860	0.25	2.000	0	93.0	70	130	1.660	11.4	20	
Toluene	1.780	0.25	2.000	0	89.0	70	130	1.860	4.40	20	
Trichloroethene	1.700	0.25	2.000	0	85.0	70	130	1.680	1.18	20	
Vinyl chloride	2.240	0.25	2.000	0	112	70	130	2.070	7.89	20	
Surr: 4-Bromofluorobenzene	2.630		2.500		105	70	130		0	0	

Qualifiers:

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



CHAIN-OF-CUSTODY RECORD

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



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

19-Jul-11



Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N006139-001A / VINP-07-19	Air	7/19/2011 12:00:00 PM	BAG	1	1

119007-007

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

Please use PO#: N006139

Please fax results by: 5 Day TAT

Relinquished by: 	Date/Time: 7/19/11 14:44
Relinquished by: 	Date/Time: 7/19/11 14:44

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: 07-19-11
 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@kodermcorgan.com		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) SIGNATURE(S):		P.O. NO.: QUOTE NO.:			
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)		ARCHIVE SAMPLES UNTIL: / /		REQUESTED ANALYSIS			
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMIEP Direct Bill KMIEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.		RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL: / /		MONTHLY SAMPLE			
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	COMMENTS	
			DATE	TIME			MAT- RIX
	VINF-07-19	Influent Vapor (from header)	7-19-11	1000	Air	4	X TO-15 X TO-3 (TPH-g) X ASTM-1946 (O2/Argon, CO2, CH4)
Received by: (Signature) _____ Date: 7/19/11 Time: 1219							
Received by: (Signature) _____ Date: 7/19/11 Time: 1248							
Received by: (Signature) _____ Date: 7/21/11 Time: 921							

Revised: 04/27/2011

CHAIN OF CUSTODY RECORD

 ADVANCED TECHNOLOGY LABORATORIES		P.O. #: _____ Quote #: _____ Logged By: _____ Date: _____		FOR LABORATORY USE ONLY		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040		Address: 3151 W Post Rd. City: Las Vegas State: NV Zip Code: 89118 Tel: (702) 307-2659 Fax: _____							
Client: Advanced Technology Laboratory Attention: _____ Project Name: CH2M Hill -Norwalk		Project #: _____ Sampler: _____							
Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____		Received by: (Signature and Printed Name) _____ Date: _____ Time: _____							
Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____		Received by: (Signature and Printed Name) _____ Date: _____ Time: _____							
Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____		Received by: (Signature and Printed Name) _____ Date: _____ Time: _____							
I hereby authorize ATL to perform the work indicated below. Project Mgr /Submitter: _____ Date: _____		Send Report To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Circle or Add Analysis(es) Requested: 8081A (Pesticides) 8082 (PCB) 8280B (Volatiles) 8270C (BNA) 6010B (Total Metal) 8015B (GRO) / 8021 (BTEX) 8015B (DRO) TITLE 22 / CAM 17 (6010 / 7000) Field Services		SPECIAL INSTRUCTIONS/COMMENTS: 7/19- 1 tech (20 min waiting time) + (15 min Shipping Time)	
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample: \$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)		Sample Description Sample ID / Location Date Time		SPECIFY APPROPRIATE MATRIX SEDIMENT SOLID SOIL DRINKING WATER GROUND WATER WASTEWATER STORMWATER AQUEOUS		CONTAINER TYPE Container(s) TAT # Type		QA/QC RTNE CT Legal SWRCB Logcode OTHER REMARKS	
LAB USE ONLY: Batch #: 10007-01 Lab No. _____		Date: 7/19/2011 Time: _____							
TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs <input type="checkbox"/> B = Emergency Next Workday <input type="checkbox"/> C = Critical 2 Workdays <input type="checkbox"/> D = Urgent 3 Workdays <input type="checkbox"/> E = Routine 7 Workdays		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=-4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃					

July 28, 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: N006139
Lab Number: C072002-01

Enclosed are results for sample(s) received 7/20/11 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.



Advanced Technology Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.atglobal.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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

19-Jul-11

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N006139-001B / VINP-07-19	Air	7/19/2011 12:00:00 PM	BAG	1	

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

Please use PO#: N006139

Please fax results by: Normal TAT

Please analyze for O2, Ar, CO2, CH4 by ASTM 1946

Relinquished by:	Date/Time	Received by:	Date/Time
			7/19/11 @ 1:57 PM
Relinquished by:		Received by:	7/19/11 @ 9:21 AM

072002-01707/edlu

01

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: 07-19-11
 PAGE: 1 OF 1

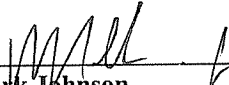
LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.dye@kindermorgan.com TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 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:						
REQUESTED ANALYSIS									
SAMPLE ID VNF-07-19	LOCATION/DESCRIPTION Influent Vapor (from header) 7-19-11	SAMPLING DATE 7-19-11	TIME 1000	MAT-RIX Air	NO. OF CONT. 4	TO-15 X	TO-3 (TPH-g) X	ASTM-1946 (O2/Argon, CO2, CH4) X	Monthly sample Comments
Relinquished by: (Signature)					Received by: (Signature)	Date: 7/19/11 Time: 1219			
Relinquished by: (Signature)					Received by: (Signature)	Date: 7/19/11 Time: 1248			
Relinquished by: (Signature)					Received by: (Signature)	Date: 7/20/11 Time: 821			

Revised: 04/27/2011

Client: ATL-Las Vegas
Attn: Marlon Cartin
Project Name: NA
Project No.: N006139
Date Received: 07/20/11
Matrix: Air
Reporting Units: % v/v

ASTM D1946							
Lab No.:	C072002-01						
Client Sample I.D.:	N006139-001B / VINF-07-19						
Date Sampled:	07/19/11						
Date Analyzed:	07/20/11						
QC Batch No.:	110720GC8A1						
Analyst Initials:	ZK						
Dilution Factor:	1.0						
ANALYTE	Result	RL					
	% v/v	% v/v					
Carbon Dioxide	0.49	0.010					
Oxygen/Argon	22	0.50					
Methane	0.0056	0.0010					

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 7/28/11

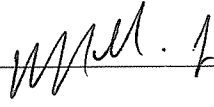
The cover letter is an integral part of this analytical report

QC Batch No.: 110720GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCSD					
Date Analyzed:	07/20/11	07/20/11	07/20/11					
Analyst Initials:	ZK	ZK	ZK					
Datafile:	20jul011	20jul009	20jul010					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	ND	105	70-130%	104	70-130%	1.1	<30
Methane	0.0010	ND	105	70-130%	109	70-130%	3.3	<30
Carbon Dioxide	0.010	ND	100	70-130%	100	70-130%	0.0	<30

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

Reviewed/Approved By: Mark J. Johnson  Date: 7/28/11
Operations Manager

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



August 05, 2011

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (213)228-8271
FAX: (510) 622-9129

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

Workorder No.: N006199

RE: SFPP - Norwalk Site

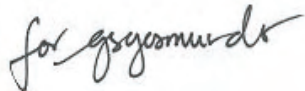
Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on July 28, 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: N006199

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N006199
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N006199-001A	INF-07-27	Wastewater	7/27/2011 3:05:00 PM	7/28/2011	
N006199-001B	INF-07-27	Wastewater	7/27/2011 3:05:00 PM	7/28/2011	
N006199-001C	INF-07-27	Wastewater	7/27/2011 3:05:00 PM	7/28/2011	



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: CH2M HILL
Lab Order: N006199
Project: SFPP - Norwalk Site
Lab ID: N006199-001

Client Sample ID: INF-07-27
Collection Date: 7/27/2011 3:05:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110728A	QC Batch:	D11VW106	PrepDate:	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	7/28/2011 09:19 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	7/28/2011 09:19 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	7/28/2011 09:19 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	7/28/2011 09:19 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	7/28/2011 09:19 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	7/28/2011 09:19 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	7/28/2011 09:19 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	7/28/2011 09:19 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	7/28/2011 09:19 PM
1,2,4-Trimethylbenzene	660	0.95	10	µg/L	10	7/28/2011 08:06 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	7/28/2011 09:19 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	7/28/2011 09:19 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	7/28/2011 09:19 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	7/28/2011 09:19 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	7/28/2011 09:19 PM
1,3,5-Trimethylbenzene	290	0.87	10	µg/L	10	7/28/2011 08:06 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	7/28/2011 09:19 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	7/28/2011 09:19 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	7/28/2011 09:19 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	7/28/2011 09:19 PM
2-Butanone	ND	1.0	10	µg/L	1	7/28/2011 09:19 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	7/28/2011 09:19 PM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
4-Isopropyltoluene	24	0.080	1.0	µg/L	1	7/28/2011 09:19 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	7/28/2011 09:19 PM
Acetone	11	1.6	10	µg/L	1	7/28/2011 09:19 PM
Acrolein	ND	4.3	20	µg/L	1	7/28/2011 09:19 PM
Acrylonitrile	ND	0.61	20	µg/L	1	7/28/2011 09:19 PM
Benzene	2800	3.8	50	µg/L	50	7/28/2011 08:30 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	7/28/2011 09:19 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	7/28/2011 09:19 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	7/28/2011 09:19 PM
Bromoform	ND	0.086	1.0	µg/L	1	7/28/2011 09:19 PM
Bromomethane	ND	0.13	1.0	µg/L	1	7/28/2011 09:19 PM
Carbon disulfide	0.44	0.054	1.0	J µg/L	1	7/28/2011 09:19 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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: CH2M HILL
Lab Order: N006199
Project: SFPP - Norwalk Site
Lab ID: N006199-001

Client Sample ID: INF-07-27
Collection Date: 7/27/2011 3:05:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110728A	QC Batch: D11VW106	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	7/28/2011 09:19 PM
Chloroethane	ND	0.14	1.0	µg/L	1	7/28/2011 09:19 PM
Chloroform	ND	0.058	1.0	µg/L	1	7/28/2011 09:19 PM
Chloromethane	ND	0.054	1.0	µg/L	1	7/28/2011 09:19 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	7/28/2011 09:19 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
Di-isopropyl ether	27	0.072	1.0	µg/L	1	7/28/2011 09:19 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	7/28/2011 09:19 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	7/28/2011 09:19 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	7/28/2011 09:19 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	7/28/2011 09:19 PM
Ethylbenzene	150	0.051	1.0	µg/L	1	7/28/2011 09:19 PM
Freon-113	ND	0.080	1.0	µg/L	1	7/28/2011 09:19 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	7/28/2011 09:19 PM
Isopropylbenzene	27	0.057	1.0	µg/L	1	7/28/2011 09:19 PM
m,p-Xylene	1300	1.7	10	µg/L	10	7/28/2011 08:06 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	7/28/2011 09:19 PM
MTBE	350	0.89	10	µg/L	10	7/28/2011 08:06 PM
n-Butylbenzene	21	0.082	1.0	µg/L	1	7/28/2011 09:19 PM
n-Propylbenzene	81	0.087	1.0	µg/L	1	7/28/2011 09:19 PM
Naphthalene	250	0.56	10	µg/L	10	7/28/2011 08:06 PM
o-Xylene	760	0.77	10	µg/L	10	7/28/2011 08:06 PM
sec-Butylbenzene	10	0.098	1.0	µg/L	1	7/28/2011 09:19 PM
Styrene	ND	0.072	1.0	µg/L	1	7/28/2011 09:19 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
Tert-Butanol	2800	12	50	µg/L	10	7/28/2011 08:06 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	7/28/2011 09:19 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	7/28/2011 09:19 PM
Toluene	490	1.2	20	µg/L	10	7/28/2011 08:06 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	7/28/2011 09:19 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	7/28/2011 09:19 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	7/28/2011 09:19 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	7/28/2011 09:19 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	7/28/2011 09:19 PM
Xylenes, Total	2100	15	20	µg/L	10	7/28/2011 08:06 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.

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: CH2M HILL
Lab Order: N006199
Project: SFPP - Norwalk Site
Lab ID: N006199-001

Client Sample ID: INF-07-27
Collection Date: 7/27/2011 3:05:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110728A	QC Batch:	D11VW106	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	91.3	0	72-119	%REC	10	7/28/2011 08:06 PM
Surr:	1,2-Dichloroethane-d4	90.3	0	72-119	%REC	50	7/28/2011 08:30 PM
Surr:	1,2-Dichloroethane-d4	101	0	72-119	%REC	1	7/28/2011 09:19 PM
Surr:	4-Bromofluorobenzene	105	0	76-119	%REC	10	7/28/2011 08:06 PM
Surr:	4-Bromofluorobenzene	107	0	76-119	%REC	1	7/28/2011 09:19 PM
Surr:	4-Bromofluorobenzene	104	0	76-119	%REC	50	7/28/2011 08:30 PM
Surr:	Dibromofluoromethane	95.1	0	85-115	%REC	1	7/28/2011 09:19 PM
Surr:	Dibromofluoromethane	95.1	0	85-115	%REC	50	7/28/2011 08:30 PM
Surr:	Dibromofluoromethane	94.2	0	85-115	%REC	10	7/28/2011 08:06 PM
Surr:	Toluene-d8	108	0	81-120	%REC	50	7/28/2011 08:30 PM
Surr:	Toluene-d8	103	0	81-120	%REC	10	7/28/2011 08:06 PM
Surr:	Toluene-d8	106	0	81-120	%REC	1	7/28/2011 09:19 PM

TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC1_110801B	QC Batch:	37448	PrepDate:	7/28/2011	Analyst:	MDM
TPH-Diesel (C13-C22)	10000	130	500	ug/L	10	8/1/2011 03:26 PM	
TPH-Oil (C23-C36)	44	9.6	50	ug/L	1	8/1/2011 03:00 PM	
Surr: Octacosane	79.1	0	26-152	%REC	1	8/1/2011 03:00 PM	
Surr: p-Terphenyl	59.7	0	57-132	%REC	1	8/1/2011 03:00 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_110730A	QC Batch:	E11VW039	PrepDate:	Analyst:	QBM
TPH-Gasoline (C4-C12)	14000	30	500	µg/L	5	7/30/2011
Surr: Chlorobenzene - d5	98.7	0	74-138	%REC	5	7/30/2011

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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL

Work Order: N006199

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-37448	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 7/28/2011	RunNo: 80918						
Client ID: PBW	Batch ID: 37448	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 8/1/2011	SeqNo: 1290803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Diesel (C13-C22)
 TPH-Oil (C23-C36)
 Surr: Octacosane
 Surr: p-Terphenyl

ND
 ND
 65.920
 60.282

50
 50

80.00
 80.00

82.4
 75.4

26
 57

152
 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

CLIENT: CH2M HILL
Work Order: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: E110730LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80898						
Client ID: LCSW	Batch ID: E11VW039	TestNo: EPA 8015B		Analysis Date: 7/30/2011	SeqNo: 1290354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	863.000	100	1000	0	86.3	67	136				
Surr: Chlorobenzene - d5	47.490		50.00		95.0	74	138				

Sample ID: E110730MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80898						
Client ID: PBW	Batch ID: E11VW039	TestNo: EPA 8015B		Analysis Date: 7/30/2011	SeqNo: 1290355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	45.116		50.00		90.2	74	138				

Sample ID: N006199-001BMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80898						
Client ID: ZZZZZ	Batch ID: E11VW039	TestNo: EPA 8015B		Analysis Date: 7/30/2011	SeqNo: 1290358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	18705.000	500	5000	14100	92.2	67	136				
Surr: Chlorobenzene - d5	259.670		250.0		104	74	138				

Sample ID: N006199-001BMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 80898						
Client ID: ZZZZZ	Batch ID: E11VW039	TestNo: EPA 8015B		Analysis Date: 7/30/2011	SeqNo: 1290359						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH-Gasoline (C4-C12)	17890.000	500	5000	14100	75.9	67	136	18710	4.45	0	
Surr: Chlorobenzene - d5	244.255		250.0		97.7	74	138		0	0	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: LCSW	Batch ID: D111VW106	TestNo: EPA 8260B	
Analyte	Result	PQL	SPK value
		SPK Ref Val	SPK Ref Val
		%REC	LowLimit
		HighLimit	RPD Ref Val
		%RPD	RPDLimit
		Qual	
		RunNo: 80862	
		SeqNo: 1289043	
		Prep Date:	
		Analysis Date: 7/28/2011	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.280	1.0	20.00	0	96.4	81	129				
1,1,1-Trichloroethane	16.480	1.0	20.00	0	82.4	67	132				
1,1,2,2-Tetrachloroethane	21.190	1.0	20.00	0	106	63	128				
1,1,2-Trichloroethane	19.950	1.0	20.00	0	99.8	75	125				
1,1-Dichloroethane	20.170	0.50	20.00	0	101	69	133				
1,1-Dichloroethene	20.810	1.0	20.00	0	104	68	130				
1,1-Dichloropropene	18.790	1.0	20.00	0	94.0	73	132				
1,2,3-Trichlorobenzene	20.080	1.0	20.00	0	100	67	137				
1,2,3-Trichloropropane	19.640	1.0	20.00	0	98.2	73	124				
1,2,4-Trichlorobenzene	20.710	1.0	20.00	0	104	66	134				
1,2,4-Trimethylbenzene	20.710	1.0	20.00	0	104	74	132				
1,2-Dibromo-3-chloropropane	19.480	2.0	20.00	0	97.4	50	132				
1,2-Dibromoethane	20.310	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	20.210	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	19.130	0.50	20.00	0	95.7	69	132				
1,2-Dichloropropane	19.040	1.0	20.00	0	95.2	75	125				
1,3,5-Trimethylbenzene	20.580	1.0	20.00	0	103	74	131				
1,3-Dichlorobenzene	20.180	1.0	20.00	0	101	75	124				
1,3-Dichloropropane	18.960	1.0	20.00	0	94.8	73	126				
1,4-Dichlorobenzene	20.040	1.0	20.00	0	100	74	123				
2,2-Dichloropropane	15.980	1.0	20.00	0	79.9	69	137				
2-Butanone	276.990	10	200.0	0	138	49	136				S
2-Chlorotoluene	21.040	1.0	20.00	0	105	73	126				
4-Chlorotoluene	20.490	1.0	20.00	0	102	74	128				
4-Isopropyltoluene	20.750	1.0	20.00	0	104	73	130				
4-Methyl-2-pentanone	212.110	10	200.0	0	106	58	134				S
Acetone	294.230	10	200.0	0	147	40	135				S
Acrolein	344.250	20	200.0	0	172	75	125				S
Acrylonitrile	264.520	20	200.0	0	132	75	125				S
Benzene	20.060	1.0	20.00	0	100	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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: LCSW	Batch ID: D111VW106	TestNo: EPA 8260B	
Analyte	Result	PQL	SPK value
		SPK Ref Val	SPK Ref Val
		%REC	LowLimit
		HighLimit	RPD Ref Val
		%RPD	RPDLimit
		Qual	
			Prep Date:
			Analysis Date: 7/28/2011
			RunNo: 80862
			SeqNo: 1289043

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.720	1.0	20.00	0	104	76	124				
Bromochloromethane	20.180	1.0	20.00	0	101	65	129				
Bromodichloromethane	19.600	1.0	20.00	0	98.0	76	121				
Bromoform	20.430	1.0	20.00	0	102	69	128				
Bromomethane	20.020	1.0	20.00	0	100	53	141				
Carbon disulfide	18.530	1.0	20.00	0	92.6	75	125				
Carbon tetrachloride	17.620	1.0	20.00	0	88.1	66	138				
Chlorobenzene	19.850	1.0	20.00	0	99.2	81	122				
Chloroethane	18.990	1.0	20.00	0	95.0	58	133				
Chloroform	19.940	1.0	20.00	0	99.7	69	128				
Chloromethane	19.270	1.0	20.00	0	96.4	56	131				
cis-1,2-Dichloroethene	20.550	1.0	20.00	0	103	72	126				
cis-1,3-Dichloropropene	19.920	1.0	20.00	0	99.6	69	131				
Di-isopropyl ether	19.460	1.0	20.00	0	97.3	70	130				
Dibromochloromethane	21.770	1.0	20.00	0	109	66	133				
Dibromomethane	20.050	1.0	20.00	0	100	76	125				
Dichlorodifluoromethane	17.560	1.0	20.00	0	87.8	53	153				
Ethyl tert-butyl ether	19.510	1.0	20.00	0	97.6	70	130				
Ethylbenzene	20.190	1.0	20.00	0	101	73	127				
Freon-113	18.000	1.0	20.00	0	90.0	75	125				
Hexachlorobutadiene	19.800	1.0	20.00	0	99.0	67	131				
Isopropylbenzene	21.420	1.0	20.00	0	107	75	127				
m,p-Xylene	42.150	1.0	40.00	0	105	76	128				
Methylene chloride	20.080	2.0	20.00	0	100	63	137				
MTBE	18.030	1.0	20.00	0	90.2	65	123				
n-Butylbenzene	21.140	1.0	20.00	0	106	69	137				
n-Propylbenzene	21.290	1.0	20.00	0	106	72	129				
Naphthalene	20.300	1.0	20.00	0	102	54	138				
o-Xylene	20.300	1.0	20.00	0	102	80	121				
sec-Butylbenzene	20.800	1.0	20.00	0	104	72	127				

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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862						
Client ID: LCSW	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Styrene	21.270	1.0	20.00	0	106	65	134				
Tert-amyl methyl ether	19.380	1.0	20.00	0	96.9	70	130				
Tert-Butanol	108.840	5.0	100.0	0	109	70	130				
tert-Butylbenzene	20.390	1.0	20.00	0	102	70	129				
Tetrachloroethene	19.090	1.0	20.00	0	95.4	66	128				
Toluene	20.410	2.0	20.00	0	102	77	122				
trans-1,2-Dichloroethene	20.060	1.0	20.00	0	100	63	137				
trans-1,3-Dichloropropene	21.650	1.0	20.00	0	108	59	135				
Trichloroethene	18.150	1.0	20.00	0	90.8	70	127				
Trichlorofluoromethane	19.180	1.0	20.00	0	95.9	57	129				
Vinyl chloride	19.480	1.0	20.00	0	97.4	50	134				
Xylenes, Total	62.450	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	24.050		25.00		96.2	72	119				
Surr: 4-Bromofluorobenzene	25.560		25.00		102	76	119				
Surr: Dibromofluoromethane	25.790		25.00		103	85	115				
Surr: Toluene-d8	26.260		25.00		105	81	120				

Sample ID: N006198-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862						
Client ID: ZZZZZ	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	19.190	1.0	20.00	0	96.0	81	129				
1,1,1-Trichloroethane	16.480	1.0	20.00	0	82.4	67	132				
1,1,2,2-Tetrachloroethane	18.300	1.0	20.00	0	91.5	63	128				
1,1,2-Trichloroethane	18.440	1.0	20.00	0	92.2	75	125				
1,1-Dichloroethane	20.000	0.50	20.00	0	100	69	133				
1,1-Dichloroethene	20.930	1.0	20.00	0	105	68	130				
1,1-Dichloropropene	18.990	1.0	20.00	0	95.0	73	132				
1,2,3-Trichlorobenzene	20.680	1.0	20.00	0	103	67	137				
1,2,3-Trichloropropane	17.030	1.0	20.00	0	85.2	73	124				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006198-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D111VW106	TestNo: EPA 8260B	
Prep Date:		RunNo: 80862	
Analysis Date: 7/28/2011		SeqNo: 1289044	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	21.390	1.0	20.00	0	107	66	134				
1,2,4-Trimethylbenzene	21.210	1.0	20.00	0	106	74	132				
1,2-Dibromo-3-chloropropane	16.320	2.0	20.00	0	81.6	50	132				
1,2-Dibromoethane	18.160	1.0	20.00	0	90.8	80	121				
1,2-Dichlorobenzene	20.210	1.0	20.00	0	101	71	122				
1,2-Dichloroethane	17.940	0.50	20.00	0	89.7	69	132				
1,2-Dichloropropane	19.120	1.0	20.00	0	95.6	75	125				
1,3,5-Trimethylbenzene	21.360	1.0	20.00	0	107	74	131				
1,3-Dichlorobenzene	20.570	1.0	20.00	0	103	75	124				
1,3-Dichloropropane	18.300	1.0	20.00	0	91.5	73	126				
1,4-Dichlorobenzene	20.310	1.0	20.00	0	102	74	123				
2,2-Dichloropropane	15.980	1.0	20.00	0	79.9	69	137				
2-Butanone	114.390	10	200.0	0	57.2	49	136				
2-Chlorotoluene	21.550	1.0	20.00	0	108	73	126				
4-Chlorotoluene	20.700	1.0	20.00	0	104	74	128				
4-Isopropyltoluene	22.030	1.0	20.00	0	110	73	130				
4-Methyl-2-pentanone	174.500	10	200.0	0	87.2	58	134				S
Acetone	78.450	10	200.0	0	39.2	40	135				S
Acrolein	300.350	20	200.0	0	150	75	125				
Acrylonitrile	223.350	20	200.0	0	112	75	125				
Benzene	20.120	1.0	20.00	0	101	81	122				
Bromobenzene	20.450	1.0	20.00	0	102	76	124				
Bromochloromethane	19.450	1.0	20.00	0	97.3	65	129				
Bromodichloromethane	19.270	1.0	20.00	0	96.4	76	121				
Bromoform	17.980	1.0	20.00	0	89.9	69	128				
Bromomethane	19.780	1.0	20.00	0	98.9	53	141				
Carbon disulfide	18.600	1.0	20.00	0	93.0	75	125				
Carbon tetrachloride	17.740	1.0	20.00	0	88.7	66	138				
Chlorobenzene	20.180	1.0	20.00	0	101	81	122				
Chloroethane	18.390	1.0	20.00	0	92.0	58	133				

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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006198-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862						
Client ID: ZZZZZZ	Batch ID: D111VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloroform	19.230	1.0	20.00	0	96.2	69	128				
Chloromethane	18.820	1.0	20.00	0	94.1	56	131				
cis-1,2-Dichloroethene	20.140	1.0	20.00	0	101	72	126				
cis-1,3-Dichloropropene	19.670	1.0	20.00	0	98.4	69	131				
Di-isopropyl ether	19.030	1.0	20.00	0	95.2	70	130				
Dibromochloromethane	20.850	1.0	20.00	0	104	66	133				
Dibromomethane	18.330	1.0	20.00	0	91.7	76	125				
Dichlorodifluoromethane	17.410	1.0	20.00	0	87.1	53	153				
Ethyl tert-butyl ether	18.830	1.0	20.00	0	94.2	70	130				
Ethylbenzene	20.620	1.0	20.00	0	103	73	127				
Freon-113	18.420	1.0	20.00	0	92.1	75	125				
Hexachlorobutadiene	21.590	1.0	20.00	0	108	67	131				
Isopropylbenzene	23.480	1.0	20.00	0	117	75	127				
m,p-Xylene	42.890	1.0	40.00	0	107	76	128				
Methylene chloride	19.030	2.0	20.00	0.4800	92.8	63	137				
MTBE	17.000	1.0	20.00	0	85.0	65	123				
n-Butylbenzene	22.810	1.0	20.00	0	114	69	137				
n-Propylbenzene	22.070	1.0	20.00	0	110	72	129				
Naphthalene	18.330	1.0	20.00	0	91.7	54	138				
o-Xylene	20.820	1.0	20.00	0	104	80	121				
sec-Butylbenzene	21.950	1.0	20.00	0	110	72	127				
Styrene	21.130	1.0	20.00	0	106	65	134				
Tert-amyl methyl ether	18.370	1.0	20.00	0	91.9	70	130				
Tert-Butanol	83.400	5.0	100.0	0	83.4	70	130				
tert-Butylbenzene	21.460	1.0	20.00	0	107	70	129				
Tetrachloroethene	19.740	1.0	20.00	0	98.7	66	128				
Toluene	20.210	2.0	20.00	0	101	77	122				
trans-1,2-Dichloroethene	19.680	1.0	20.00	0	98.4	63	137				
trans-1,3-Dichloropropene	20.470	1.0	20.00	0	102	59	135				
Trichloroethene	18.430	1.0	20.00	0	92.2	70	127				

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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006198-006AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862
Client ID: ZZZZZ	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	18.880	1.0	20.00	0	94.4	57	129				
Vinyl chloride	19.090	1.0	20.00	0	95.4	50	134				
Xylenes, Total	63.710	2.0	60.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	21.840		25.00		87.4	72	119				
Surr: 4-Bromofluorobenzene	25.840		25.00		103	76	119				
Surr: Dibromofluoromethane	25.080		25.00		100	85	115				
Surr: Toluene-d8	25.940		25.00		104	81	120				

Sample ID: N006198-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862
Client ID: ZZZZZ	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.020	1.0	20.00	0	95.1	81	129	19.19	0.890	20	
1,1,1-Trichloroethane	16.470	1.0	20.00	0	82.4	67	132	16.48	0.0607	20	
1,1,2,2-Tetrachloroethane	17.810	1.0	20.00	0	89.0	63	128	18.30	2.71	20	
1,1,2-Trichloroethane	17.770	1.0	20.00	0	88.8	75	125	18.44	3.70	20	
1,1-Dichloroethane	20.170	0.50	20.00	0	101	69	133	20.00	0.846	20	
1,1-Dichloroethene	21.310	1.0	20.00	0	107	68	130	20.93	1.80	20	
1,1-Dichloropropene	19.010	1.0	20.00	0	95.1	73	132	18.99	0.105	20	
1,2,3-Trichlorobenzene	20.020	1.0	20.00	0	100	67	137	20.68	3.24	20	
1,2,3-Trichloropropane	16.440	1.0	20.00	0	82.2	73	124	17.03	3.53	20	
1,2,4-Trichlorobenzene	20.970	1.0	20.00	0	105	66	134	21.39	1.98	20	
1,2,4-Trimethylbenzene	21.270	1.0	20.00	0	106	74	132	21.21	0.282	20	
1,2-Dibromo-3-chloropropane	16.030	2.0	20.00	0	80.2	50	132	16.32	1.79	20	
1,2-Dibromoethane	17.570	1.0	20.00	0	87.9	80	121	18.16	3.30	20	
1,2-Dichlorobenzene	20.150	1.0	20.00	0	101	71	122	20.21	0.297	20	
1,2-Dichloroethane	17.840	0.50	20.00	0	89.2	69	132	17.94	0.559	20	
1,2-Dichloropropane	19.000	1.0	20.00	0	95.0	75	125	19.12	0.630	20	
1,3,5-Trimethylbenzene	21.270	1.0	20.00	0	106	74	131	21.36	0.422	20	
1,3-Dichlorobenzene	20.690	1.0	20.00	0	103	75	124	20.57	0.582	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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006198-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D11VW106	TestNo: EPA 8260B	Prep Date:
		Analysis Date: 7/28/2011	RunNo: 80862
			SeqNo: 1289045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	17.640	1.0	20.00	0	88.2	73	126	18.30	3.67	20	
1,4-Dichlorobenzene	20.450	1.0	20.00	0	102	74	123	20.31	0.687	20	
2,2-Dichloropropane	16.060	1.0	20.00	0	80.3	69	137	15.98	0.499	20	
2-Butanone	114.520	10	200.0	0	57.3	49	136	114.4	0.114	20	
2-Chlorotoluene	21.640	1.0	20.00	0	108	73	126	21.55	0.417	20	
4-Chlorotoluene	20.900	1.0	20.00	0	104	74	128	20.70	0.962	20	
4-Isopropyltoluene	21.870	1.0	20.00	0	109	73	130	22.03	0.729	20	
4-Methyl-2-pentanone	159.580	10	200.0	0	79.8	58	134	174.5	8.93	20	
Acetone	78.370	10	200.0	0	39.2	40	135	78.45	0.102	20	S
Acrolein	273.920	20	200.0	0	137	75	125	300.4	9.20	20	S
Acrylonitrile	206.010	20	200.0	0	103	75	125	223.4	8.08	20	
Benzene	20.110	1.0	20.00	0	101	81	122	20.12	0.0497	20	
Bromobenzene	20.350	1.0	20.00	0	102	76	124	20.45	0.490	20	
Bromochloromethane	19.460	1.0	20.00	0	97.3	65	129	19.45	0.0514	20	
Bromodichloromethane	18.930	1.0	20.00	0	94.6	76	121	19.27	1.78	20	
Bromoform	17.520	1.0	20.00	0	87.6	69	128	17.98	2.59	20	
Bromomethane	20.470	1.0	20.00	0	102	53	141	19.78	3.43	20	
Carbon disulfide	18.870	1.0	20.00	0	94.4	75	125	18.60	1.44	20	
Carbon tetrachloride	17.640	1.0	20.00	0	88.2	66	138	17.74	0.565	20	
Chlorobenzene	20.110	1.0	20.00	0	101	81	122	20.18	0.347	20	
Chloroethane	18.800	1.0	20.00	0	94.0	58	133	18.39	2.20	20	
Chloroform	19.160	1.0	20.00	0	95.8	69	128	19.23	0.365	20	
Chloromethane	19.440	1.0	20.00	0	97.2	56	131	18.82	3.24	20	
cis-1,2-Dichloroethene	20.520	1.0	20.00	0	103	72	126	20.14	1.87	20	
cis-1,3-Dichloropropene	19.260	1.0	20.00	0	96.3	69	131	19.67	2.11	20	
Di-isopropyl ether	18.900	1.0	20.00	0	94.5	70	130	19.03	0.685	20	
Dibromochloromethane	19.970	1.0	20.00	0	99.8	66	133	20.85	4.31	20	
Dibromomethane	18.040	1.0	20.00	0	90.2	76	125	18.33	1.59	20	
Dichlorodifluoromethane	17.690	1.0	20.00	0	88.4	53	153	17.41	1.60	20	
Ethyl tert-butyl ether	18.090	1.0	20.00	0	90.4	70	130	18.83	4.01	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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006198-006AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862
Client ID: ZZZZZZ	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.700	1.0	20.00	0	104	73	127	20.62	0.387	20	
Freon-113	18.230	1.0	20.00	0	91.2	75	125	18.42	1.04	20	
Hexachlorobutadiene	21.150	1.0	20.00	0	106	67	131	21.59	2.06	20	
Isopropylbenzene	22.660	1.0	20.00	0	113	75	127	23.48	3.55	20	
m,p-Xylene	42.920	1.0	40.00	0	107	76	128	42.89	0.0699	20	
Methylene chloride	19.530	2.0	20.00	0.4800	95.2	63	137	19.03	2.59	20	
MTBE	16.880	1.0	20.00	0	84.4	65	123	17.00	0.708	20	
n-Butylbenzene	22.580	1.0	20.00	0	113	69	137	22.81	1.01	20	
n-Propylbenzene	22.140	1.0	20.00	0	111	72	129	22.07	0.317	20	
Naphthalene	17.990	1.0	20.00	0	90.0	54	138	18.33	1.87	20	
o-Xylene	20.640	1.0	20.00	0	103	80	121	20.82	0.868	20	
sec-Butylbenzene	22.000	1.0	20.00	0	110	72	127	21.95	0.228	20	
Styrene	20.620	1.0	20.00	0	103	65	134	21.13	2.44	20	
Tert-amyl methyl ether	17.420	1.0	20.00	0	87.1	70	130	18.37	5.31	20	
Tert-Butanol	83.930	5.0	100.0	0	83.9	70	130	83.40	0.633	20	
tert-Butylbenzene	21.320	1.0	20.00	0	107	70	129	21.46	0.655	20	
Tetrachloroethene	19.660	1.0	20.00	0	98.3	66	128	19.74	0.406	20	
Toluene	20.430	2.0	20.00	0	102	77	122	20.21	1.08	20	
trans-1,2-Dichloroethene	20.050	1.0	20.00	0	100	63	137	19.68	1.86	20	
trans-1,3-Dichloropropene	19.730	1.0	20.00	0	98.6	59	135	20.47	3.68	20	
Trichloroethene	18.250	1.0	20.00	0	91.2	70	127	18.43	0.981	20	
Trichlorofluoromethane	19.220	1.0	20.00	0	96.1	57	129	18.88	1.78	20	
Vinyl chloride	19.470	1.0	20.00	0	97.4	50	134	19.09	1.97	20	
Xylenes, Total	63.560	2.0	60.00	0	106	75	125	63.71	0.236	20	
Surr: 1,2-Dichloroethane-d4	21.720		25.00		86.9	72	119		0		
Surr: 4-Bromofluorobenzene	25.150		25.00		101	76	119		0		
Surr: Dibromofluoromethane	24.850		25.00		99.4	85	115		0		
Surr: Toluene-d8	25.920		25.00		104	81	120		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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862		
Client ID: PBW	Batch ID: D11VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289046		
Analyte	Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual

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	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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 80862							
Client ID: PBW	Batch ID: D111VW106	TestNo: EPA 8260B		Analysis Date: 7/28/2011	SeqNo: 1289046							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD	Ref Val	%RPD	RPDLimit	Qual

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										
Di-isopropyl ether	ND	1.0										
Dibromochloromethane	ND	1.0										
Dibromomethane	ND	1.0										
Dichlorodifluoromethane	ND	1.0										
Ethyl tert-butyl ether	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	0.320	2.0										J
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										

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: N006199
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110728MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 80862
Client ID: PBW	Batch ID: D11VW106	TestNo: EPA 8260B		SeqNo: 1289046
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
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	24.300		25.00		97.2	72			119		
Surr: 4-Bromofluorobenzene	25.310		25.00		101	76			119		
Surr: Dibromofluoromethane	24.100		25.00		96.4	85			115		
Surr: Toluene-d8	25.720		25.00		103	81			120		

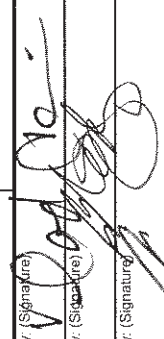
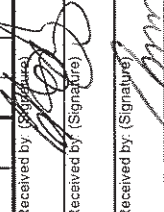
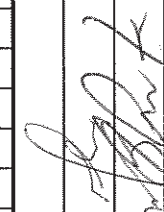
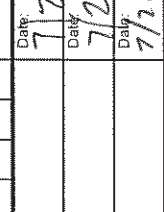
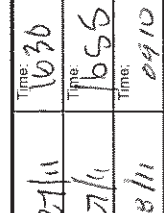
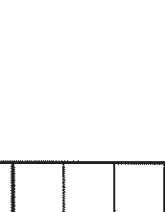
Qualifiers:

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - 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

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: 7/27/11
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh 1100 Town & Country Road Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.dye@kindermorgan.com		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S): (SIGNATURE)		P.O. NO.: QUOTE NO.: LAB USE ONLY:
REQUESTED ANALYSIS				
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.	VOCs + Oxygenates (8260B) X TPH-g (8015M) X TPH-tp (8015M) X			
	SAMPLE ID INF-67-27	LOCATION/DESCRIPTION Influent	SAMPLING DATE 7/27/1505 WW	TIME 8
LAB USE ONLY	RECEIVED BY (Signature) 	RECEIVED BY (Signature) 	DATE 7/27/11	TIME 1030
COMMENTS	RECEIVED BY (Signature) 	RECEIVED BY (Signature) 	DATE 7/27/11	TIME 1055
COMMENTS	RECEIVED BY (Signature) 	RECEIVED BY (Signature) 	DATE 7/28/11	TIME 0910

Revised: 07/25/2011

3.9°C

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: 7/28/2011 Workorder: N006199
 Rep sample Temp (Deg C): 3.4 IR Gun ID: 1
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 4805 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 B MBC

Reviewed By:

909



1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100

Step 1
 Step 2
 Step 3
 Step 4
 Step 5
 Step 6
 Step 7
 Step 8
 Step 9
 Step 10
 Step 11
 Step 12
 Step 13
 Step 14
 Step 15
 Step 16
 Step 17
 Step 18
 Step 19
 Step 20
 Step 21
 Step 22
 Step 23
 Step 24
 Step 25
 Step 26
 Step 27
 Step 28
 Step 29
 Step 30
 Step 31
 Step 32
 Step 33
 Step 34
 Step 35
 Step 36
 Step 37
 Step 38
 Step 39
 Step 40
 Step 41
 Step 42
 Step 43
 Step 44
 Step 45
 Step 46
 Step 47
 Step 48
 Step 49
 Step 50
 Step 51
 Step 52
 Step 53
 Step 54
 Step 55
 Step 56
 Step 57
 Step 58
 Step 59
 Step 60
 Step 61
 Step 62
 Step 63
 Step 64
 Step 65
 Step 66
 Step 67
 Step 68
 Step 69
 Step 70
 Step 71
 Step 72
 Step 73
 Step 74
 Step 75
 Step 76
 Step 77
 Step 78
 Step 79
 Step 80
 Step 81
 Step 82
 Step 83
 Step 84
 Step 85
 Step 86
 Step 87
 Step 88
 Step 89
 Step 90
 Step 91
 Step 92
 Step 93
 Step 94
 Step 95
 Step 96
 Step 97
 Step 98
 Step 99
 Step 100



8726 6495 4805

US Airbill

0200

August 30, 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.: N006295

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

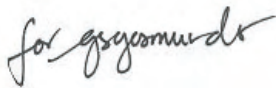
Enclosed are the results for sample(s) received on August 16, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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.**



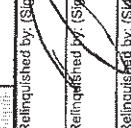
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

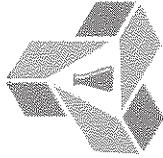
CHAIN OF CUSTODY RECORD

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

DATE: 8/16/11

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh		CLIENT PROJECT NAME/NUMBER: SFPP - Norwalk Site		P.O. NO.:						
ADDRESS: 1100 Town & Country Road		PROJECT CONTACT: James Dye		QUOTE NO.:						
CITY: Orange, CA 92868		SAMPLER(S): (SIGNATURE) 		LAB USE ONLY: <input type="checkbox"/>						
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 <input type="checkbox"/> 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.										
REQUESTED ANALYSIS										
LAB USE ONLY:	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	TIME	MAT- RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)	Comments
	VINF-08-16	Influent Vapor (from header)	8/16/11	12:15	Air	4	X	X	X	Monthly sample
Relinquished by: (Signature)  Date: 8/16/11 Time: 12:26 Relinquished by: (Signature)  Date: 8/16/11 Time: 16:46 Relinquished by: (Signature) Date: 8/16/11 Time: 16:46										



Advanced Technology Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.atiglobal.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

16-Aug-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
N006295-001A / VINP-08-16	Air	8/16/2011 12:15:00 PM	BAG	1	1

General Comments: Please email sample receipt acknowledgement to the PM.
 Please use PO#: N006295
 Please fax results by: Normal TAT

	Date/Time	Date/Time
Relinquished by: 	8/16/11 12:13	Received by:
Relinquished by:		Received by:



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

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ATL-Industry

TEL:
 FAX:
 Acct #:

Field Sampler: James Dye

City of Industry, CA

16-Aug-11


Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
N006295-001B / VINP-08-16	Air	8/16/2011 12:15:00 PM	BAG	ASTM D1946 1

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

Please use PO#: N006295

Please fax results by: Normal TAT

Please analyze for O2, Ar, CO2, CH4 by ASTM 1946

Date/Time	Date/Time
Relinquished by: 	Received by: <u>8/16/11 EJL</u>
Relinquished by:	Received by:

August 30, 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: N006295
Lab Number: C081701-01

Enclosed are results for sample(s) received 8/17/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

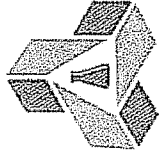
Sincerely,

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.

C081701-01



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-Industry
Field Sampler: James Dye
City of Industry, CA
16-Aug-11

Sample ID	Matrix	Date Collected	Bottle Type	ASTM D1946	Requested Tests
N006295-001B / VINP-08-16	Air	8/16/2011 12:15:00 PM	BAG	1	

-01

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N006295 Please fax results by: Normal TAT
Please analyze for O2, Ar, CO2, CH4 by ASTM 1946

Relinquished by:	Date/Time	Received by:	Date/Time
	8/16/11 12:13		8/16/11 via email
Relinquished by:		Received by:	

CO81701-01

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: 8/16/11

PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh 1100 Town & Country Road Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james.dye@kimerge.com		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site		P.O. NO.:
ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868		PROJECT CONTACT: James Dye		QUOTE NO.:
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):		SAMPLER(SY) (SIGNATURE): 		LAB USE ONLY:
<input type="checkbox"/> RWOCB 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.		
SAMPLING		NO. OF CONT.		
SAMPLE ID	LOCATION/ DESCRIPTION	DATE	TIME	MAT- RIX
VINF- 08-16	Influent Vapor (from header)	8/16/11	1215	Air 4
LAB USE ONLY:				
Requested Analysis: TO-15, TO-3 (PH-g), ASTM-1946 (O2/Argon, CO2, CH4)		Comments: Monthly sample		
Relinquished by: (Signature)		Received by: (Signature)		Date: 8/16/11 Time: 1220
Relinquished by: (Signature)		Received by: (Signature)		Date: 8/16/11 Time: 1646
Relinquished by: (Signature)		Received by: (Signature)		Date: 8/17/11 Time: 933

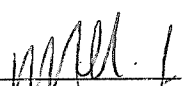
Revised: 04/27/2011

Client: ATL- Las Vegas
Attn: Marlon Cartin
Project Name: NA
Project No.: N006295
Date Received: 08/17/11
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	C081701-01						
Client Sample I.D.:	N006295-001B / VINP-08-16						
Date Sampled:	08/16/11						
Date Analyzed:	08/19/11						
QC Batch No.:	110819GC8A1						
Analyst Initials:	ZK						
Dilution Factor:	1.0						
ANALYTE	Result % v/v	RL % v/v					
Carbon Dioxide	0.31	0.010					
Oxygen/Argon	22	0.50					
Methane	0.0026	0.0010					

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 8/30/11

The cover letter is an integral part of this analytical report



August 23, 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.: 119424

RE:

Attention: Marlon Cartin

Enclosed are the results for sample(s) received on August 16, 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. Rodriguez".

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: 119424

CASE NARRATIVE

Analytical Comments for EPA TO15

Sample 119424-001A, dilution was necessary due to high concentration of unknown/non-target compounds in the sample.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006295-001A / VINP-08-16
Lab Order: 119424 **Collection Date:** 8/16/2011 12:15:00 PM
Project: **Matrix:** AIR
Lab ID: 119424-001A

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

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110817B	QC Batch:	W11A103	PrepDate:	Analyst:	DMP
1,1,1-Trichloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,1,2,2-Tetrachloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,1,2-Trichloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,1-Dichloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,1-Dichloroethene	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,2,4-Trichlorobenzene	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,2,4-Trimethylbenzene	460	100	ppbv	400	8/17/2011 01:26 PM	
1,2-Dibromoethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,2-Dichlorobenzene	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,2-Dichloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,2-Dichloropropane	ND	100	ppbv	400	8/17/2011 01:26 PM	
1,3,5-Trimethylbenzene	170	100	ppbv	400	8/17/2011 01:26 PM	
1,3-Dichlorobenzene	300	100	ppbv	400	8/17/2011 01:26 PM	
1,4-Dichlorobenzene	ND	100	ppbv	400	8/17/2011 01:26 PM	
2-Butanone	340	100	ppbv	400	8/17/2011 01:26 PM	
2-Hexanone	ND	100	ppbv	400	8/17/2011 01:26 PM	
4-Ethyl Toluene	140	100	ppbv	400	8/17/2011 01:26 PM	
4-Methyl-2-pentanone	ND	100	ppbv	400	8/17/2011 01:26 PM	
Acetone	ND	100	ppbv	400	8/17/2011 01:26 PM	
Benzene	3000	100	ppbv	400	8/17/2011 01:26 PM	
Benzyl chloride	ND	100	ppbv	400	8/17/2011 01:26 PM	
Bromodichloromethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Bromoform	ND	100	ppbv	400	8/17/2011 01:26 PM	
Bromomethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Carbon disulfide	ND	100	ppbv	400	8/17/2011 01:26 PM	
Carbon tetrachloride	ND	100	ppbv	400	8/17/2011 01:26 PM	
Chlorobenzene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Chloroethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Chloroform	ND	100	ppbv	400	8/17/2011 01:26 PM	
Chloromethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
cis-1,2-Dichloroethene	ND	100	ppbv	400	8/17/2011 01:26 PM	
cis-1,3-Dichloropropene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Dibromochloromethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Dichlorodifluoromethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Dichlorotetrafluoroethane	ND	100	ppbv	400	8/17/2011 01:26 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: 23-Aug-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006295-001A / VINP-08-16
Lab Order: 119424 **Collection Date:** 8/16/2011 12:15:00 PM
Project: **Matrix:** AIR
Lab ID: 119424-001A

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

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110817B	QC Batch:	W11A103	PrepDate:	Analyst:	DMP
Ethylbenzene	600	100	ppbv	400	8/17/2011 01:26 PM	
Freon-113	ND	100	ppbv	400	8/17/2011 01:26 PM	
Hexachlorobutadiene	ND	100	ppbv	400	8/17/2011 01:26 PM	
m,p-Xylene	1700	100	ppbv	400	8/17/2011 01:26 PM	
MTBE	490	100	ppbv	400	8/17/2011 01:26 PM	
Methylene chloride	ND	100	ppbv	400	8/17/2011 01:26 PM	
o-Xylene	630	100	ppbv	400	8/17/2011 01:26 PM	
Styrene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Tetrachloroethene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Toluene	4000	100	ppbv	400	8/17/2011 01:26 PM	
trans-1,2-Dichloroethene	ND	100	ppbv	400	8/17/2011 01:26 PM	
trans-1,3-Dichloropropene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Trichloroethene	ND	100	ppbv	400	8/17/2011 01:26 PM	
Trichlorofluoromethane	ND	100	ppbv	400	8/17/2011 01:26 PM	
Vinyl acetate	ND	100	ppbv	400	8/17/2011 01:26 PM	
Vinyl chloride	ND	100	ppbv	400	8/17/2011 01:26 PM	
Surr: 4-Bromofluorobenzene	116	70-130	%REC	400	8/17/2011 01:26 PM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110817A	QC Batch:	W11A103	PrepDate:	Analyst:	DMP
Gasoline	140	8.0	ppmv	400	8/17/2011 01:26 PM	
Surr: 4-Bromofluorobenzene	110	70-130	%REC	400	8/17/2011 01:26 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: 119424

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: LCS-W11A103	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 135889						
Client ID: ZZZZZ	Batch ID: W11A103	TestNo: EPA TO15		Analysis Date: 8/17/2011	SeqNo: 2226437						
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	1.980	0.25	2.000	0	99.0	70	130				
Chloroform	1.690	0.25	2.000	0	84.5	70	130				
m,p-Xylene	3.780	0.25	4.000	0	94.5	70	130				
o-Xylene	1.930	0.25	2.000	0	96.5	70	130				
Tetrachloroethene	1.880	0.25	2.000	0	94.0	70	130				
Toluene	1.880	0.25	2.000	0	94.0	70	130				
Trichloroethene	1.770	0.25	2.000	0	88.5	70	130				
Vinyl chloride	1.870	0.25	2.000	0	93.5	70	130				
Surr: 4-Bromofluorobenzene	2.940		2.500		118	70	130				

Sample ID: LCSD-W11A103	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 135889						
Client ID: ZZZZZ	Batch ID: W11A103	TestNo: EPA TO15		Analysis Date: 8/17/2011	SeqNo: 2226438						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.850	0.25	2.000	0	92.5	70	130	1.830	1.09	20	
Benzene	2.020	0.25	2.000	0	101	70	130	1.980	2.00	20	
Chloroform	1.710	0.25	2.000	0	85.5	70	130	1.690	1.18	20	
m,p-Xylene	3.900	0.25	4.000	0	97.5	70	130	3.780	3.13	20	
o-Xylene	1.970	0.25	2.000	0	98.5	70	130	1.930	2.05	20	
Tetrachloroethene	1.950	0.25	2.000	0	97.5	70	130	1.880	3.66	20	
Toluene	1.950	0.25	2.000	0	97.5	70	130	1.880	3.66	20	
Trichloroethene	1.840	0.25	2.000	0	92.0	70	130	1.770	3.88	20	
Vinyl chloride	1.950	0.25	2.000	0	97.5	70	130	1.870	4.19	20	
Surr: 4-Bromofluorobenzene	3.040		2.500		122	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: 119424
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A103	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 135889						
Client ID: ZZZZZZ	Batch ID: W11A103	TestNo: EPA TO15		Analysis Date: 8/17/2011	SeqNo: 2226439						
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: 119424
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A103	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 135889
Client ID: ZZZZZZ	Batch ID: W11A103	TestNo: EPA TO15		Analysis Date: 8/17/2011	SeqNo: 2226439

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	2.810		2.500		112	70	130				

Qualifiers:

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



CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 119424
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

Sample ID: MB-W11A103	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135888						
Client ID: ZZZZZ	Batch ID: W11A103	TestNo: EPA TO3		Analysis Date: 8/17/2011	SeqNo: 2226432						
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		96.0	70	130			

Sample ID: LCS-W11A103	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135888						
Client ID: ZZZZZ	Batch ID: W11A103	TestNo: EPA TO3		Analysis Date: 8/17/2011	SeqNo: 2226433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	0.224	0.020	0.2000	0	112	70	130			
Surr: 4-Bromofluorobenzene	0.003		0.002500		115	70	130			

Sample ID: LCSD-W11A103	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 135888						
Client ID: ZZZZZ	Batch ID: W11A103	TestNo: EPA TO3		Analysis Date: 8/17/2011	SeqNo: 2226435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	0.218	0.020	0.2000	0	109	70	130	0.2242	2.93	20
Surr: 4-Bromofluorobenzene	0.003		0.002500		108	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 | |



Fernando Diwa

From: Marlon Cartin [marlon@atl-labs.com]
Sent: Tuesday, August 16, 2011 5:05 PM
To: Carmen Aguila
Cc: Rachelle Arada
Subject: Sub COC
Attachments: SKMBT_C55011081617040.pdf

Hi Carmen!

Please see attached sub COC.

The ASTM 1946 will be picked-up by Val tomorrow morning.

Thanks,

Marlon

-----Original Message-----

From: Scanner LV@atlglobal.com [mailto:Scanner LV@atlglobal.com]
Sent: Tuesday, August 16, 2011 6:05 PM
To: Marlon Cartin
Subject: Scanned Document.

Scanned Document.



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

16-Aug-11

Sample ID	Matrix	Date Collected	Bottle Type	EPA TO15	EPA TO3
119424-1 N006295-001A / VINP-08-16	Air	8/16/2011 12:15:00 PM	BAG	1	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N006295 Please fax results by: Normal TAT

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	8/16/11 12:13	<i>[Signature]</i>	8/16/11 17:13

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

CHAIN OF CUSTODY RECORD

DATE: *8/16/11*
 PAGE: 1 OF 1

LABORATORY CLIENT: Kindor 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@kindormorgan.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"/> RWOCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u> / / </u>		CLIENT PROJECT NAME / NUMBER: SFP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S): (SIGNATURE)		P.O. NO.:		
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.			QUOTE NO.:			
REQUESTED ANALYSIS						
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	COMMENTS
			DATE	TIME		
	<i>VINF- 08-16</i>	Influent Vapor (from header)	<i>8/16/11</i>	<i>12:15</i>	<i>4</i>	<i>Monthly sample</i>
	Received by: (Signature)			Date: <i>8/16/11</i>	Time: <i>12:00</i>	
	Relinquished by: (Signature)			Date: <i>8/16/11</i>	Time: <i>16:46</i>	
	Relinquished by: (Signature)			Date:	Time:	

September 07, 2011

Shawn P. Duffy
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (530) 229-3303
FAX: (530) 339-3303

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

Workorder No.: N006357

RE: SFPP - Norwalk Site

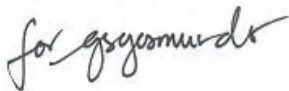
Attention: Shawn P. Duffy

Enclosed are the results for sample(s) received on August 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.



**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: N006357
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N006357-001A	INF-08-26	Waste Water	8/26/2011 12:00:00 PM	8/27/2011	
N006357-001B	INF-08-26	Waste Water	8/26/2011 12:00:00 PM	8/27/2011	
N006357-001C	INF-08-26	Waste Water	8/26/2011 12:00:00 PM	8/27/2011	



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N006357

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8015B Extractable:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria since the analyte concentration in the sample is disproportionate to the spike level. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8260B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for acetone and 2-butanone on QC samples N006330-001BMS and N006330-001BMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 07-Sep-11

CLIENT: CH2M HILL
Lab Order: N006357
Project: SFPP - Norwalk Site
Lab ID: N006357-001

Client Sample ID: INF-08-26
Collection Date: 8/26/2011 12:00:00 PM
Matrix: WASTE WATER

Analyses Result MDL PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110827A	QC Batch: D11VW121	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	8/27/2011 08:51 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	8/27/2011 08:51 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	8/27/2011 08:51 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	8/27/2011 08:51 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	8/27/2011 08:51 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	8/27/2011 08:51 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	8/27/2011 08:51 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	8/27/2011 08:51 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	8/27/2011 08:51 PM
1,2,4-Trimethylbenzene	390	0.95	10	µg/L	10	8/27/2011 08:27 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	8/27/2011 08:51 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	8/27/2011 08:51 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	8/27/2011 08:51 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	8/27/2011 08:51 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	8/27/2011 08:51 PM
1,3,5-Trimethylbenzene	140	0.087	1.0	µg/L	1	8/27/2011 08:51 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	8/27/2011 08:51 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	8/27/2011 08:51 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	8/27/2011 08:51 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	8/27/2011 08:51 PM
2-Butanone	ND	1.0	10	µg/L	1	8/27/2011 08:51 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	8/27/2011 08:51 PM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
4-Isopropyltoluene	4.8	0.080	1.0	µg/L	1	8/27/2011 08:51 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	8/27/2011 08:51 PM
Acetone	17	1.6	10	µg/L	1	8/27/2011 08:51 PM
Acrolein	ND	4.3	20	µg/L	1	8/27/2011 08:51 PM
Acrylonitrile	ND	0.61	20	µg/L	1	8/27/2011 08:51 PM
Benzene	1400	0.75	10	µg/L	10	8/27/2011 08:27 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	8/27/2011 08:51 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	8/27/2011 08:51 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	8/27/2011 08:51 PM
Bromoform	ND	0.086	1.0	µg/L	1	8/27/2011 08:51 PM
Bromomethane	ND	0.13	1.0	µg/L	1	8/27/2011 08:51 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	8/27/2011 08:51 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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 07-Sep-11

CLIENT: CH2M HILL
Lab Order: N006357
Project: SFPP - Norwalk Site
Lab ID: N006357-001

Client Sample ID: INF-08-26
Collection Date: 8/26/2011 12:00:00 PM
Matrix: WASTE WATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS1_110827A	QC Batch: D11VW121	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	8/27/2011 08:51 PM
Chloroethane	ND	0.14	1.0	µg/L	1	8/27/2011 08:51 PM
Chloroform	ND	0.058	1.0	µg/L	1	8/27/2011 08:51 PM
Chloromethane	ND	0.054	1.0	µg/L	1	8/27/2011 08:51 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	8/27/2011 08:51 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
Di-isopropyl ether	16	0.072	1.0	µg/L	1	8/27/2011 08:51 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	8/27/2011 08:51 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	8/27/2011 08:51 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	8/27/2011 08:51 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	8/27/2011 08:51 PM
Ethylbenzene	120	0.051	1.0	µg/L	1	8/27/2011 08:51 PM
Freon-113	ND	0.080	1.0	µg/L	1	8/27/2011 08:51 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	8/27/2011 08:51 PM
Isopropylbenzene	14	0.057	1.0	µg/L	1	8/27/2011 08:51 PM
m,p-Xylene	940	1.7	10	µg/L	10	8/27/2011 08:27 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	8/27/2011 08:51 PM
MTBE	270	0.89	10	µg/L	10	8/27/2011 08:27 PM
n-Butylbenzene	10	0.082	1.0	µg/L	1	8/27/2011 08:51 PM
n-Propylbenzene	33	0.087	1.0	µg/L	1	8/27/2011 08:51 PM
Naphthalene	120	0.056	1.0	µg/L	1	8/27/2011 08:51 PM
o-Xylene	390	0.77	10	µg/L	10	8/27/2011 08:27 PM
sec-Butylbenzene	ND	0.098	1.0	µg/L	1	8/27/2011 08:51 PM
Styrene	ND	0.072	1.0	µg/L	1	8/27/2011 08:51 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
Tert-Butanol	1600	12	50	µg/L	10	8/27/2011 08:27 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	8/27/2011 08:51 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	8/27/2011 08:51 PM
Toluene	480	1.2	20	µg/L	10	8/27/2011 08:27 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	8/27/2011 08:51 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	8/27/2011 08:51 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	8/27/2011 08:51 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	8/27/2011 08:51 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	8/27/2011 08:51 PM
Xylenes, Total	1300	15	20	µg/L	10	8/27/2011 08:27 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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 07-Sep-11

CLIENT: CH2M HILL
Lab Order: N006357
Project: SFPP - Norwalk Site
Lab ID: N006357-001

Client Sample ID: INF-08-26
Collection Date: 8/26/2011 12:00:00 PM
Matrix: WASTE WATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110827A	QC Batch:	D11VW121	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	105	0	72-119	%REC	1	8/27/2011 08:51 PM
Surr:	1,2-Dichloroethane-d4	97.5	0	72-119	%REC	10	8/27/2011 08:27 PM
Surr:	4-Bromofluorobenzene	117	0	76-119	%REC	1	8/27/2011 08:51 PM
Surr:	4-Bromofluorobenzene	110	0	76-119	%REC	10	8/27/2011 08:27 PM
Surr:	Dibromofluoromethane	98.3	0	85-115	%REC	10	8/27/2011 08:27 PM
Surr:	Dibromofluoromethane	101	0	85-115	%REC	1	8/27/2011 08:51 PM
Surr:	Toluene-d8	109	0	81-120	%REC	1	8/27/2011 08:51 PM
Surr:	Toluene-d8	110	0	81-120	%REC	10	8/27/2011 08:27 PM

TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC1_110831A	QC Batch:	37728	PrepDate:	8/31/2011	Analyst:	PYW
TPH-Fuel Product		57000	260	1000	ug/L	20	8/31/2011 02:58 PM
Surr:	Octacosane	93.8	0	26-152	%REC	20	8/31/2011 02:58 PM
Surr:	p-Terphenyl	89.3	0	57-132	%REC	20	8/31/2011 02:58 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_110901A	QC Batch:	E11VW045	PrepDate:	Analyst:	QBM	
TPH-Gasoline (C4-C12)		7400	12	200	µg/L	2	9/1/2011
Surr:	Chlorobenzene - d5	86.7	0	74-138	%REC	2	9/1/2011

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike/Surrogate outside of limits due to matrix interferenc
 DO Surrogate Diluted Out



CLIENT: CH2M HILL

Work Order: N006357

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-37728	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/31/2011	RunNo: 81369						
Client ID: PBW	Batch ID: 37728	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 8/31/2011	SeqNo: 1306091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	25.970	50									J
Surr: Octacosane	88.480		80.00		111	26	152				
Surr: p-Terphenyl	78.702		80.00		98.4	57	132				

Sample ID: N006357-001B-MS	SampType: MS	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/31/2011	RunNo: 81369						
Client ID: ZZZZZZ	Batch ID: 37728	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 8/31/2011	SeqNo: 1306093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	41854.755	1000	1020	56820	-1470	61	143				S
Surr: Octacosane	74.755		81.63		91.6	26	152				
Surr: p-Terphenyl	54.714		81.63		67.0	57	132				

Sample ID: N006357-001B-MSD	SampType: MSD	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/31/2011	RunNo: 81369						
Client ID: ZZZZZZ	Batch ID: 37728	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 8/31/2011	SeqNo: 1306094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	46678.816	1000	1020	56820	-994	61	143	41850	10.9	30	S
Surr: Octacosane	89.571		81.63		110	26	152		0		
Surr: p-Terphenyl	64.531		81.63		79.1	57	132		0		

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: E110901LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81393						
Client ID: LCSW	Batch ID: E11VW045	TestNo: EPA 8015B		Analysis Date: 9/1/2011	SeqNo: 1306645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	867.000	100	1000	0	86.7	67	136				
Surr: Chlorobenzene - d5	45.438		50.00		90.9	74	138				

Sample ID: E110901MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81393						
Client ID: PBW	Batch ID: E11VW045	TestNo: EPA 8015B		Analysis Date: 9/1/2011	SeqNo: 1306646						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	49.764		50.00		99.5	74	138				

Sample ID: N006348-005BMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81393						
Client ID: ZZZZZ	Batch ID: E11VW045	TestNo: EPA 8015B		Analysis Date: 9/1/2011	SeqNo: 1306647						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	978.000	100	1000	0	97.8	67	136				
Surr: Chlorobenzene - d5	52.268		50.00		105	74	138				

Sample ID: N006348-005BMSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81393						
Client ID: ZZZZZ	Batch ID: E11VW045	TestNo: EPA 8015B		Analysis Date: 9/1/2011	SeqNo: 1306648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1070.000	100	1000	0	107	67	136	978.0	8.98	0	0
Surr: Chlorobenzene - d5	45.285		50.00		90.6	74	138		0	0	0

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: LCSW	Batch ID: D111VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.000	1.0	20.00	0	95.0	81	129				
1,1,1-Trichloroethane	16.600	1.0	20.00	0	83.0	67	132				
1,1,2,2-Tetrachloroethane	20.780	1.0	20.00	0	104	63	128				
1,1,2-Trichloroethane	20.750	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	20.670	0.50	20.00	0	103	69	133				
1,1-Dichloroethene	20.240	1.0	20.00	0	101	68	130				
1,1-Dichloropropene	19.150	1.0	20.00	0	95.8	73	132				
1,2,3-Trichlorobenzene	20.360	1.0	20.00	0	102	67	137				
1,2,3-Trichloropropane	19.490	1.0	20.00	0	97.5	73	124				
1,2,4-Trichlorobenzene	21.140	1.0	20.00	0	106	66	134				
1,2,4-Trimethylbenzene	20.460	1.0	20.00	0	102	74	132				
1,2-Dibromo-3-chloropropane	18.780	2.0	20.00	0	93.9	50	132				
1,2-Dibromoethane	21.250	1.0	20.00	0	106	80	121				
1,2-Dichlorobenzene	20.710	1.0	20.00	0	104	71	122				
1,2-Dichloroethane	20.500	0.50	20.00	0	103	69	132				
1,2-Dichloropropane	19.580	1.0	20.00	0	97.9	75	125				
1,3,5-Trimethylbenzene	20.280	1.0	20.00	0	101	74	131				
1,3-Dichlorobenzene	20.690	1.0	20.00	0	103	75	124				
1,3-Dichloropropane	20.440	1.0	20.00	0	102	73	126				
1,4-Dichlorobenzene	20.690	1.0	20.00	0	103	74	123				
2,2-Dichloropropane	17.090	1.0	20.00	0	85.4	69	137				
2-Butanone	228.520	10	200.0	0	114	49	136				
2-Chlorotoluene	20.100	1.0	20.00	0	101	73	126				
4-Chlorotoluene	20.130	1.0	20.00	0	101	74	128				
4-Isopropyltoluene	20.960	1.0	20.00	0	105	73	130				
4-Methyl-2-pentanone	219.780	10	200.0	0	110	58	134				
Acetone	256.480	10	200.0	0	128	40	135				
Acrolein	210.570	20	200.0	0	105	75	125				
Acrylonitrile	213.560	20	200.0	0	107	75	125				
Benzene	20.390	1.0	20.00	0	102	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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322						
Client ID: LCSW	Batch ID: D111VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromobenzene	20.610	1.0	20.00	0	103	76	124				
Bromochloromethane	20.840	1.0	20.00	0	104	65	129				
Bromodichloromethane	18.050	1.0	20.00	0	90.3	76	121				
Bromoform	18.310	1.0	20.00	0	91.6	69	128				
Bromomethane	18.970	1.0	20.00	0	94.8	53	141				
Carbon disulfide	18.320	1.0	20.00	0	91.6	75	125				
Carbon tetrachloride	16.940	1.0	20.00	0	84.7	66	138				
Chlorobenzene	20.530	1.0	20.00	0	103	81	122				
Chloroethane	19.600	1.0	20.00	0	98.0	58	133				
Chloroform	20.340	1.0	20.00	0	102	69	128				
Chloromethane	20.310	1.0	20.00	0	102	56	131				
cis-1,2-Dichloroethene	21.610	1.0	20.00	0	108	72	126				
cis-1,3-Dichloropropene	20.420	1.0	20.00	0	102	69	131				
Di-isopropyl ether	19.840	1.0	20.00	0	99.2	70	130				
Dibromochloromethane	19.220	1.0	20.00	0	96.1	66	133				
Dibromomethane	22.180	1.0	20.00	0	111	76	125				
Dichlorodifluoromethane	19.510	1.0	20.00	0	97.6	53	153				
Ethyl tert-butyl ether	19.960	1.0	20.00	0	99.8	70	130				
Ethylbenzene	20.040	1.0	20.00	0	100	73	127				
Freon-113	19.740	1.0	20.00	0	98.7	75	125				
Hexachlorobutadiene	20.330	1.0	20.00	0	102	67	131				
Isopropylbenzene	20.610	1.0	20.00	0	103	75	127				
m,p-Xylene	40.820	1.0	40.00	0	102	76	128				
Methylene chloride	19.190	2.0	20.00	0	96.0	63	137				
MTBE	19.230	1.0	20.00	0	96.2	65	123				
n-Butylbenzene	21.170	1.0	20.00	0	106	69	137				
n-Propylbenzene	20.780	1.0	20.00	0	104	72	129				
Naphthalene	18.730	1.0	20.00	0	93.6	54	138				
o-Xylene	19.900	1.0	20.00	0	99.5	80	121				
sec-Butylbenzene	20.680	1.0	20.00	0	103	72	127				

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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: LCSW	Batch ID: D111VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	20.850	1.0	20.00	0	104	65	134				
Tert-amyl methyl ether	19.840	1.0	20.00	0	99.2	70	130				
Tert-Butanol	87.850	5.0	100.0	0	87.8	70	130				
tert-Butylbenzene	20.420	1.0	20.00	0	102	70	129				
Tetrachloroethene	21.230	1.0	20.00	0	106	66	128				
Toluene	20.580	2.0	20.00	0	103	77	122				
trans-1,2-Dichloroethene	21.740	1.0	20.00	0	109	63	137				
trans-1,3-Dichloropropene	20.160	1.0	20.00	0	101	59	135				
Trichloroethene	19.930	1.0	20.00	0	99.7	70	127				
Trichlorofluoromethane	19.600	1.0	20.00	0	98.0	57	129				
Vinyl chloride	19.940	1.0	20.00	0	99.7	50	134				
Xylenes, Total	60.720	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	25.990		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.840		25.00		103	76	119				
Surr: Dibromofluoromethane	28.520		25.00		114	85	115				
Surr: Toluene-d8	27.140		25.00		109	81	120				

Sample ID: N006330-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: ZZZZZ	Batch ID: D111VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304964

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.630	1.0	20.00	0	93.2	81	129				
1,1,1-Trichloroethane	16.280	1.0	20.00	0	81.4	67	132				
1,1,2,2-Tetrachloroethane	17.690	1.0	20.00	0	88.4	63	128				
1,1,2-Trichloroethane	18.180	1.0	20.00	0	90.9	75	125				
1,1-Dichloroethane	19.640	0.50	20.00	0	98.2	69	133				
1,1-Dichloroethene	20.480	1.0	20.00	0	102	68	130				
1,1-Dichloropropene	19.900	1.0	20.00	0	99.5	73	132				
1,2,3-Trichlorobenzene	19.900	1.0	20.00	0	99.5	67	137				
1,2,3-Trichloropropane	16.200	1.0	20.00	0	81.0	73	124				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006330-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZZ	Batch ID: D111VW121	TestNo: EPA 8260B	
Prep Date:		RunNo: 81322	
Analysis Date: 8/27/2011		SeqNo: 1304964	

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	21.480	1.0	20.00	0		107	66	134				
1,2,4-Trimethylbenzene	20.850	1.0	20.00	0		104	74	132				
1,2-Dibromo-3-chloropropane	15.810	2.0	20.00	0		79.0	50	132				
1,2-Dibromoethane	18.090	1.0	20.00	0		90.4	80	121				
1,2-Dichlorobenzene	20.310	1.0	20.00	0		102	71	122				
1,2-Dichloroethane	18.210	0.50	20.00	0		91.1	69	132				
1,2-Dichloropropane	18.800	1.0	20.00	0		94.0	75	125				
1,3,5-Trimethylbenzene	21.160	1.0	20.00	0		106	74	131				
1,3-Dichlorobenzene	21.280	1.0	20.00	0		106	75	124				
1,3-Dichloropropane	18.300	1.0	20.00	0		91.5	73	126				
1,4-Dichlorobenzene	21.370	1.0	20.00	0		107	74	123				
2,2-Dichloropropane	16.530	1.0	20.00	0		82.6	69	137				
2-Butanone	80.010	10	200.0	0		40.0	49	136				S
2-Chlorotoluene	21.080	1.0	20.00	0		105	73	126				
4-Chlorotoluene	20.990	1.0	20.00	0		105	74	128				
4-Isopropyltoluene	22.310	1.0	20.00	0		112	73	130				
4-Methyl-2-pentanone	155.490	10	200.0	0		77.7	58	134				S
Acetone	62.610	10	200.0	0		31.3	40	135				
Acrolein	162.150	20	200.0	0		81.1	75	125				
Acrylonitrile	152.500	20	200.0	0		76.2	75	125				
Benzene	20.410	1.0	20.00	0		102	81	122				
Bromobenzene	20.590	1.0	20.00	0		103	76	124				
Bromochloromethane	18.800	1.0	20.00	0		94.0	65	129				
Bromodichloromethane	17.640	1.0	20.00	0		88.2	76	121				
Bromoform	16.310	1.0	20.00	0		81.6	69	128				
Bromomethane	18.770	1.0	20.00	0		93.8	53	141				
Carbon disulfide	19.290	1.0	20.00	0.8800		92.0	75	125				
Carbon tetrachloride	16.910	1.0	20.00	0		84.6	66	138				
Chlorobenzene	20.580	1.0	20.00	0		103	81	122				
Chloroethane	20.230	1.0	20.00	0		101	58	133				

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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006330-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322						
Client ID: ZZZZZZ	Batch ID: D111VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloroform	19.690	1.0	20.00	0	98.4	69	128				
Chloromethane	20.770	1.0	20.00	0	104	56	131				
cis-1,2-Dichloroethene	20.640	1.0	20.00	0	103	72	126				
cis-1,3-Dichloropropene	19.540	1.0	20.00	0	97.7	69	131				
Di-isopropyl ether	18.820	1.0	20.00	0	94.1	70	130				
Dibromochloromethane	18.260	1.0	20.00	0	91.3	66	133				
Dibromomethane	18.930	1.0	20.00	0	94.6	76	125				
Dichlorodifluoromethane	20.340	1.0	20.00	0	102	53	153				
Ethyl tert-butyl ether	18.360	1.0	20.00	0	91.8	70	130				
Ethylbenzene	20.900	1.0	20.00	0	104	73	127				
Freon-113	19.640	1.0	20.00	0	98.2	75	125				
Hexachlorobutadiene	22.300	1.0	20.00	0	112	67	131				
Isopropylbenzene	22.980	1.0	20.00	0	115	75	127				
m,p-Xylene	42.430	1.0	40.00	0	106	76	128				
Methylene chloride	17.880	2.0	20.00	0.5800	86.5	63	137				
MTBE	16.490	1.0	20.00	0	82.5	65	123				
n-Butylbenzene	22.960	1.0	20.00	0	115	69	137				
n-Propylbenzene	22.120	1.0	20.00	0	111	72	129				
Naphthalene	16.420	1.0	20.00	0	82.1	54	138				
o-Xylene	20.270	1.0	20.00	0	101	80	121				
sec-Butylbenzene	22.210	1.0	20.00	0	111	72	127				
Styrene	19.780	1.0	20.00	0	98.9	65	134				
Tert-amyl methyl ether	18.050	1.0	20.00	0	90.3	70	130				
Tert-Butanol	73.510	5.0	100.0	0	73.5	70	130				
tert-Butylbenzene	21.790	1.0	20.00	0	109	70	129				
Tetrachloroethene	22.330	1.0	20.00	0	112	66	128				
Toluene	20.520	2.0	20.00	0	103	77	122				
trans-1,2-Dichloroethene	20.970	1.0	20.00	0	105	63	137				
trans-1,3-Dichloropropene	18.640	1.0	20.00	0	93.2	59	135				
Trichloroethene	19.970	1.0	20.00	0	99.8	70	127				

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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006330-001BMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: ZZZZZ	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304964

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	19.340	1.0	20.00	0	96.7	57	129				
Vinyl chloride	20.860	1.0	20.00	0	104	50	134				
Xylenes, Total	62.700	2.0	60.00	0	105	75	125				
Surr: 1,2-Dichloroethane-d4	22.260		25.00		89.0	72	119				
Surr: 4-Bromofluorobenzene	25.970		25.00		104	76	119				
Surr: Dibromofluoromethane	26.400		25.00		106	85	115				
Surr: Toluene-d8	27.290		25.00		109	81	120				

Sample ID: N006330-001BMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: ZZZZZ	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.240	1.0	20.00	0	96.2	81	129	18.63	3.22	20	
1,1,1-Trichloroethane	16.440	1.0	20.00	0	82.2	67	132	16.28	0.978	20	
1,1,2,2-Tetrachloroethane	18.690	1.0	20.00	0	93.5	63	128	17.69	5.50	20	
1,1,2-Trichloroethane	19.190	1.0	20.00	0	96.0	75	125	18.18	5.41	20	
1,1-Dichloroethane	19.760	0.50	20.00	0	98.8	69	133	19.64	0.609	20	
1,1-Dichloroethene	20.050	1.0	20.00	0	100	68	130	20.48	2.12	20	
1,1-Dichloropropene	19.800	1.0	20.00	0	99.0	73	132	19.90	0.504	20	
1,2,3-Trichlorobenzene	20.520	1.0	20.00	0	103	67	137	19.90	3.07	20	
1,2,3-Trichloropropane	17.120	1.0	20.00	0	85.6	73	124	16.20	5.52	20	
1,2,4-Trichlorobenzene	21.950	1.0	20.00	0	110	66	134	21.48	2.16	20	
1,2,4-Trimethylbenzene	19.250	1.0	20.00	0	96.2	74	132	20.85	7.98	20	
1,2-Dibromo-3-chloropropane	16.940	2.0	20.00	0	84.7	50	132	15.81	6.90	20	
1,2-Dibromoethane	18.640	1.0	20.00	0	93.2	80	121	18.09	2.99	20	
1,2-Dichlorobenzene	20.910	1.0	20.00	0	105	71	122	20.31	2.91	20	
1,2-Dichloroethane	18.950	0.50	20.00	0	94.8	69	132	18.21	3.98	20	
1,2-Dichloropropane	19.720	1.0	20.00	0	98.6	75	125	18.80	4.78	20	
1,3,5-Trimethylbenzene	20.850	1.0	20.00	0	104	74	131	21.16	1.48	20	
1,3-Dichlorobenzene	21.440	1.0	20.00	0	107	75	124	21.28	0.749	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006330-001BMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: ZZZZZZ	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.050	1.0	20.00	0	95.2	73	126	18.30	4.02	20	
1,4-Dichlorobenzene	21.640	1.0	20.00	0	108	74	123	21.37	1.26	20	
2,2-Dichloropropane	16.330	1.0	20.00	0	81.7	69	137	16.53	1.22	20	
2-Butanone	88.280	10	200.0	0	44.1	49	136	80.01	9.83	20	S
2-Chlorotoluene	20.980	1.0	20.00	0	105	73	126	21.08	0.476	20	
4-Chlorotoluene	21.130	1.0	20.00	0	106	74	128	20.99	0.665	20	
4-Isopropyltoluene	22.010	1.0	20.00	0	110	73	130	22.31	1.35	20	
4-Methyl-2-pentanone	170.070	10	200.0	0	85.0	58	134	155.5	8.96	20	
Acetone	68.350	10	200.0	0	34.2	40	135	62.61	8.77	20	
Acrolein	180.580	20	200.0	0	90.3	75	125	162.2	10.8	20	
Acrylonitrile	170.600	20	200.0	0	85.3	75	125	152.5	11.2	20	
Benzene	20.670	1.0	20.00	0	103	81	122	20.41	1.27	20	
Bromobenzene	20.810	1.0	20.00	0	104	76	124	20.59	1.06	20	
Bromochloromethane	19.340	1.0	20.00	0	96.7	65	129	18.80	2.83	20	
Bromodichloromethane	17.680	1.0	20.00	0	88.4	76	121	17.64	0.227	20	
Bromoform	17.090	1.0	20.00	0	85.4	69	128	16.31	4.67	20	
Bromomethane	19.200	1.0	20.00	0	96.0	53	141	18.77	2.26	20	
Carbon disulfide	19.660	1.0	20.00	0.8800	93.9	75	125	19.29	1.90	20	
Carbon tetrachloride	16.990	1.0	20.00	0	85.0	66	138	16.91	0.472	20	
Chlorobenzene	20.870	1.0	20.00	0	104	81	122	20.58	1.40	20	
Chloroethane	20.450	1.0	20.00	0	102	58	133	20.23	1.08	20	
Chloroform	19.840	1.0	20.00	0	99.2	69	128	19.69	0.759	20	
Chloromethane	20.920	1.0	20.00	0	105	56	131	20.77	0.720	20	
cis-1,2-Dichloroethene	21.150	1.0	20.00	0	106	72	126	20.64	2.44	20	
cis-1,3-Dichloropropene	20.040	1.0	20.00	0	100	69	131	19.54	2.53	20	
Di-isopropyl ether	19.520	1.0	20.00	0	97.6	70	130	18.82	3.65	20	
Dibromochloromethane	18.340	1.0	20.00	0	91.7	66	133	18.26	0.437	20	
Dibromomethane	20.270	1.0	20.00	0	101	76	125	18.93	6.84	20	
Dichlorodifluoromethane	20.610	1.0	20.00	0	103	53	153	20.34	1.32	20	
Ethyl tert-butyl ether	18.970	1.0	20.00	0	94.8	70	130	18.36	3.27	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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006330-001BMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322
Client ID: ZZZZZZ	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.980	1.0	20.00	0	105	73	127	20.90	0.382	20	
Freon-113	19.750	1.0	20.00	0	98.8	75	125	19.64	0.559	20	
Hexachlorobutadiene	22.470	1.0	20.00	0	112	67	131	22.30	0.759	20	
Isopropylbenzene	21.590	1.0	20.00	0	108	75	127	22.98	6.24	20	
m,p-Xylene	42.150	1.0	40.00	0	105	76	128	42.43	0.662	20	
Methylene chloride	18.520	2.0	20.00	0.5800	89.7	63	137	17.88	3.52	20	
MTBE	17.640	1.0	20.00	0	88.2	65	123	16.49	6.74	20	
n-Butylbenzene	22.820	1.0	20.00	0	114	69	137	22.96	0.612	20	
n-Propylbenzene	21.940	1.0	20.00	0	110	72	129	22.12	0.817	20	
Naphthalene	16.820	1.0	20.00	0	84.1	54	138	16.42	2.41	20	
o-Xylene	20.380	1.0	20.00	0	102	80	121	20.27	0.541	20	
sec-Butylbenzene	22.030	1.0	20.00	0	110	72	127	22.21	0.814	20	
Styrene	17.520	1.0	20.00	0	87.6	65	134	19.78	12.1	20	
Tert-amyl methyl ether	18.930	1.0	20.00	0	94.6	70	130	18.05	4.76	20	
Tert-Butanol	77.760	5.0	100.0	0	77.8	70	130	73.51	5.62	20	
tert-Butylbenzene	21.700	1.0	20.00	0	108	70	129	21.79	0.414	20	
Tetrachloroethene	22.210	1.0	20.00	0	111	66	128	22.33	0.539	20	
Toluene	21.040	2.0	20.00	0	105	77	122	20.52	2.50	20	
trans-1,2-Dichloroethene	21.020	1.0	20.00	0	105	63	137	20.97	0.238	20	
trans-1,3-Dichloropropene	19.050	1.0	20.00	0	95.2	59	135	18.64	2.18	20	
Trichloroethene	20.120	1.0	20.00	0	101	70	127	19.97	0.748	20	
Trichlorofluoromethane	19.550	1.0	20.00	0	97.8	57	129	19.34	1.08	20	
Vinyl chloride	20.750	1.0	20.00	0	104	50	134	20.86	0.529	20	
Xylenes, Total	62.530	2.0	60.00	0	104	75	125	62.70	0.272	20	
Surr: 1,2-Dichloroethane-d4	23.650		25.00		94.6	72	119		0		
Surr: 4-Bromofluorobenzene	26.420		25.00		106	76	119		0		
Surr: Dibromofluoromethane	26.860		25.00		107	85	115		0		
Surr: Toluene-d8	28.050		25.00		112	81	120		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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322						
Client ID: PBW	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304966						
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
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	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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322							
Client ID: PBW	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304966							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD	Ref Val	%RPD	RPDLimit	Qual

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										
Di-isopropyl ether	ND	1.0										
Dibromochloromethane	ND	1.0										
Dibromomethane	ND	1.0										
Dichlorodifluoromethane	ND	1.0										
Ethyl tert-butyl ether	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	0.720	2.0										J
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										

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: N006357
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110827MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81322						
Client ID: PBW	Batch ID: D11VW121	TestNo: EPA 8260B		Analysis Date: 8/27/2011	SeqNo: 1304966						
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	24.460		25.00		97.8	72		119			
Surr: 4-Bromofluorobenzene	27.410		25.00		110	76		119			
Surr: Dibromofluoromethane	24.780		25.00		99.1	85		115			
Surr: Toluene-d8	27.190		25.00		109	81		120			

Qualifiers:

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - 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

CHAIN OF CUSTODY RECORD

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

DATE: 08-26-11
PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site		P.O. NO.:			
ADDRESS: 1100 Town & Country Road		PROJECT CONTACT: James Dye		QUOTE NO.:			
CITY: Orange, CA 92868		SAMPLER(S): (SIGNATURE) 		LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: <small>james_dye@kindermorgan.com</small>					
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.							
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		NO. OF CONT.	COMMENTS	
			DATE	TIME			MAT- RIX
	INF-08-26	Influent	8-26-11	1200	WW	9	<input checked="" type="checkbox"/> TPH - g (8015M) <input checked="" type="checkbox"/> TPH - p (8015M) <input checked="" type="checkbox"/> VOCs, Full List (8260B)
							Temperature* =
							(Temp. as sampled*)
							Monthly
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 8/26/11	Time: 1346		
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 8/26/11	Time: 1419		
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 8/27/11	Time: 0915	3.4°C	

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: 8/27/2011 Workorder: N006357
Rep sample Temp (Deg C): 3.4 IR Gun ID: 2
Temp Blank: Yes No
Carrier name: OnTrac
Last 4 digits of Tracking No.: 8465 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 B

NS *stark*

Reviewed By:

cg stark



800-334-5000
Call For A Pickup!

Account Number
B10241808465

Date
M D Y

FROM (Company)
 ENVIRO TREATMENT & TECHNOLOGY
 Street Address
 3075 WALNUT AVE SUITE
 City SIGNAL
 State CA Zip Code (Required) 90755
 Phone Number

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE (NOT DELIVER TO A P.O. BOX)
 ATLANTAS VEGAS
 Street Address
 3151 W POST ROAD
 Suite #
 City LAS VEGAS
 State NV Zip Code (Required) 89118
 Phone Number 702-307-3629
 Recipient's Name
 MATTI ON CARRIAMI
 Shipper's Ref #
 C112111111



Service Options <small>*If no box is checked, Standard Service will be applied. *New delivery times for all items, some items. Check service grids or visit our website for details.</small>	Billing Information <small>If none is selected, shipper will be invoiced.</small>	Weight
<input checked="" type="checkbox"/> SUNRISE - BY 10:30 AM* <input type="checkbox"/> SUNRISE GOLD - BY 8:00 AM* <input type="checkbox"/> HEAVYWEIGHT** <input checked="" type="checkbox"/> Saturday Delivery - Extra Charge <small>(see Service Grids for details)</small> <input type="checkbox"/> HOLD FOR PICKUP <small>This shipment requires a delivery signature</small> <input checked="" type="checkbox"/> Declared Value \$ <small>(maximum \$25,000)</small>	<input type="checkbox"/> Bill Shipper's Account <input checked="" type="checkbox"/> Bill Other Acct #	<input type="checkbox"/> 8 oz. Letter or Weight lbs. <small>(Subject to verification)</small>
<input type="checkbox"/> C.O.D. Amount \$ Limit \$10,000 <small>(with C.O.D. tag to package)</small>	<input type="checkbox"/> Secured Payment <small>(Money Order or Certified Check)</small> <input type="checkbox"/> Unsecured Payment <small>(Company Check or Personal Check)</small>	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	

WWW.CALOVER.COM



B10241808465

September 30, 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.: N006500

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

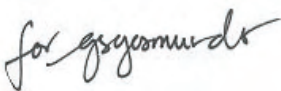
Enclosed are the results for sample(s) received on September 20, 2011 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

September 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.: 119929

RE:


Attention: Marlon Cartin

Enclosed are the results for sample(s) received on September 20, 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: 119929

CASE NARRATIVE

Analytical Comments for EPA TO15

Sample 119929-001A, dilution was necessary due to high concentration of unknown/non-target compounds in the sample.

Analytical Comments for EPA TO3

Sample 119929-001A, dilution was necessary due to sample matrix.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 29-Sep-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006500-001A / VINP-09-20
Lab Order: 119929 **Collection Date:** 9/20/2011 12:16:00 PM
Project: **Matrix:** AIR
Lab ID: 119929-001A

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

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110922A	QC Batch:	W11A121	PrepDate:	Analyst:	DMP
1,1,1-Trichloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,1,2,2-Tetrachloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,1,2-Trichloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,1-Dichloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,1-Dichloroethene	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,2,4-Trichlorobenzene	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,2,4-Trimethylbenzene	390	50	ppbv	200	9/22/2011 05:23 PM	
1,2-Dibromoethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,2-Dichlorobenzene	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,2-Dichloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,2-Dichloropropane	ND	50	ppbv	200	9/22/2011 05:23 PM	
1,3,5-Trimethylbenzene	130	50	ppbv	200	9/22/2011 05:23 PM	
1,3-Dichlorobenzene	110	50	ppbv	200	9/22/2011 05:23 PM	
1,4-Dichlorobenzene	ND	50	ppbv	200	9/22/2011 05:23 PM	
2-Butanone	78	50	ppbv	200	9/22/2011 05:23 PM	
2-Hexanone	ND	50	ppbv	200	9/22/2011 05:23 PM	
4-Ethyl Toluene	100	50	ppbv	200	9/22/2011 05:23 PM	
4-Methyl-2-pentanone	ND	50	ppbv	200	9/22/2011 05:23 PM	
Acetone	ND	50	ppbv	200	9/22/2011 05:23 PM	
Benzene	2100	50	ppbv	200	9/22/2011 05:23 PM	
Benzyl chloride	ND	50	ppbv	200	9/22/2011 05:23 PM	
Bromodichloromethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Bromoform	ND	50	ppbv	200	9/22/2011 05:23 PM	
Bromomethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Carbon disulfide	ND	50	ppbv	200	9/22/2011 05:23 PM	
Carbon tetrachloride	ND	50	ppbv	200	9/22/2011 05:23 PM	
Chlorobenzene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Chloroethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Chloroform	ND	50	ppbv	200	9/22/2011 05:23 PM	
Chloromethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
cis-1,2-Dichloroethene	ND	50	ppbv	200	9/22/2011 05:23 PM	
cis-1,3-Dichloropropene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Dibromochloromethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Dichlorodifluoromethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Dichlorotetrafluoroethane	ND	50	ppbv	200	9/22/2011 05:23 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-Sep-11

CLIENT: Advanced Technology Laboratory-Las Vega **Client Sample ID:** N006500-001A / VINP-09-20
Lab Order: 119929 **Collection Date:** 9/20/2011 12:16:00 PM
Project: **Matrix:** AIR
Lab ID: 119929-001A

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

VOCS IN AIR BY GCMS

EPA TO15

RunID:	MS14_110922A	QC Batch:	W11A121	PrepDate:	Analyst:	DMP
Ethylbenzene	740	50	ppbv	200	9/22/2011 05:23 PM	
Freon-113	ND	50	ppbv	200	9/22/2011 05:23 PM	
Hexachlorobutadiene	ND	50	ppbv	200	9/22/2011 05:23 PM	
m,p-Xylene	1500	50	ppbv	200	9/22/2011 05:23 PM	
MTBE	660	50	ppbv	200	9/22/2011 05:23 PM	
Methylene chloride	ND	50	ppbv	200	9/22/2011 05:23 PM	
o-Xylene	540	50	ppbv	200	9/22/2011 05:23 PM	
Styrene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Tetrachloroethene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Toluene	2700	50	ppbv	200	9/22/2011 05:23 PM	
trans-1,2-Dichloroethene	ND	50	ppbv	200	9/22/2011 05:23 PM	
trans-1,3-Dichloropropene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Trichloroethene	ND	50	ppbv	200	9/22/2011 05:23 PM	
Trichlorofluoromethane	ND	50	ppbv	200	9/22/2011 05:23 PM	
Vinyl acetate	ND	50	ppbv	200	9/22/2011 05:23 PM	
Vinyl chloride	ND	50	ppbv	200	9/22/2011 05:23 PM	
Surr: 4-Bromofluorobenzene	130	70-130	%REC	200	9/22/2011 05:23 PM	

GASOLINE RANGE ORGANICS BY GC-MS

EPA TO3

RunID:	MS14_110922A	QC Batch:	W11A121	PrepDate:	Analyst:	DMP
Gasoline	100	4.0	ppmv	200	9/22/2011 05:23 PM	
Surr: 4-Bromofluorobenzene	110	70-130	%REC	200	9/22/2011 05:23 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: 119929
Project:

ANALYTICAL QC SUMMARY REPORT

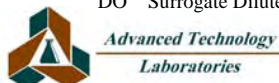
TestCode: TO15_CH2

Sample ID: LCS-W11A121	SampType: LCS	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO15	Analysis Date: 9/22/2011	SeqNo: 2246342							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.700	0.25	2.000	0	85.0	70	130				
Benzene	1.670	0.25	2.000	0	83.5	70	130				
Chloroform	1.830	0.25	2.000	0	91.5	70	130				
m,p-Xylene	3.850	0.25	4.000	0	96.2	70	130				
o-Xylene	1.910	0.25	2.000	0	95.5	70	130				
Tetrachloroethene	1.910	0.25	2.000	0	95.5	70	130				
Toluene	1.600	0.25	2.000	0	80.0	70	130				
Trichloroethene	1.610	0.25	2.000	0	80.5	70	130				
Vinyl chloride	1.840	0.25	2.000	0	92.0	70	130				
Surr: 4-Bromofluorobenzene	3.100		2.500		124	70	130				

Sample ID: LCSD-W11A121	SampType: LCSD	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO15	Analysis Date: 9/22/2011	SeqNo: 2246343							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	1.760	0.25	2.000	0	88.0	70	130	1.700	3.47	20	
Benzene	1.720	0.25	2.000	0	86.0	70	130	1.670	2.95	20	
Chloroform	1.830	0.25	2.000	0	91.5	70	130	1.830	0	20	
m,p-Xylene	3.780	0.25	4.000	0	94.5	70	130	3.850	1.83	20	
o-Xylene	1.900	0.25	2.000	0	95.0	70	130	1.910	0.525	20	
Tetrachloroethene	1.880	0.25	2.000	0	94.0	70	130	1.910	1.58	20	
Toluene	1.610	0.25	2.000	0	80.5	70	130	1.600	0.623	20	
Trichloroethene	1.630	0.25	2.000	0	81.5	70	130	1.610	1.23	20	
Vinyl chloride	2.060	0.25	2.000	0	103	70	130	1.840	11.3	20	
Surr: 4-Bromofluorobenzene	3.060		2.500		122	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: 119929
Project:

ANALYTICAL QC SUMMARY REPORT

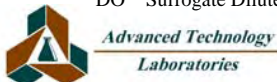
TestCode: TO15_CH2

Sample ID: MB-W11A121	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 136937
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO15		Analysis Date: 9/22/2011	SeqNo: 2246344

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: 119929
Project:

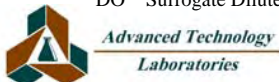
ANALYTICAL QC SUMMARY REPORT

TestCode: TO15_CH2

Sample ID: MB-W11A121	SampType: MBLK	TestCode: TO15_CH2	Units: ppbv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO15	Analysis Date: 9/22/2011	SeqNo: 2246344							
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	2.950		2.500		118	70	130				

Qualifiers:

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



CLIENT: Advanced Technology Laboratory-Las Vegas
Work Order: 119929
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO3_GAS_CH2

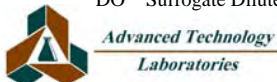
Sample ID: MB-W11A121	SampType: MBLK	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO3		Analysis Date: 9/22/2011	SeqNo: 2246573						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	0.020									
Surr: 4-Bromofluorobenzene	0.002		0.002500		98.4	70	130				

Sample ID: LCS-W11A121	SampType: LCS	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO3		Analysis Date: 9/22/2011	SeqNo: 2246574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.211	0.020	0.2000	0	105	70	130				
Surr: 4-Bromofluorobenzene	0.003		0.002500		109	70	130				

Sample ID: LCSD-W11A121	SampType: LCSD	TestCode: TO3_GAS_C	Units: ppmv	Prep Date:	RunNo: 136937						
Client ID: ZZZZZ	Batch ID: W11A121	TestNo: EPA TO3		Analysis Date: 9/22/2011	SeqNo: 2246576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.215	0.020	0.2000	0	107	70	130	0.2109	1.89	20	
Surr: 4-Bromofluorobenzene	0.003		0.002500		118	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

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

20-Sep-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				EPA TO15	EPA TO3
119929 - N1 N006500-001A / VINP-09-20	Air	9/20/2011 12:16:00 PM	BAG	1	1

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N006500 Please fax results by Normal TAT.:

Relinquished by:	<i>Cas ga</i>	Date/Time	<i>9/20/11</i>	Received by:	<i>[Signature]</i>	Date/Time	<i>9/20/11</i>
Relinquished by:				Received by:			

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

CHAIN OF CUSTODY RECORD

DATE: 9/20/11
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh <small>ADDRESS:</small> 1100 Town & Country Road <small>CITY:</small> Orange, CA 92868 <small>TEL:</small> 714-560-4802 <small>FAX:</small> 714-560-4601 <small>E-MAIL:</small> james.dye@kindermorgan.com				<small>CLIENT PROJECT NAME / NUMBER:</small> SFPP - Norwalk Site <small>PROJECT CONTACT:</small> James Dye <small>SAMPLER(S); (SIGNATURE)</small> 				<small>P.O. NO.:</small> <small>QUOTE NO.:</small> <small>LAB USE ONLY</small> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>														
<small>TURNAROUND TIME</small> <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				REQUESTED ANALYSIS																		
<small>SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)</small> <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / /				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TO-15</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TO-3 (TPH-g)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">ASTM-1946 (O2/Argon, CO2, CH4)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)												
TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)																				
<small>SPECIAL INSTRUCTIONS</small> 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.																						
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	TO-15	TO-3 (TPH-g)	ASTM-1946 (O2/Argon, CO2, CH4)							Comments						
			DATE	TIME																		
	VINF-09-20	Influent Vapor (from header)	9/20/11	12:16	Air	4	X	X	X							Monthly sample						
Relinquished by: (Signature)						Received by: (Signature)						Date: <u>9/20/11</u>	Time: <u>1355</u>									
Relinquished by: (Signature)						Received by: (Signature)						Date: <u>9/20/11</u>	Time: <u>1734</u>									
Relinquished by: (Signature)						Received by: (Signature)						Date: _____	Time: _____									

Revised: 04/27/2011

Advanced Technology Laboratories

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 (562) 989-4045.

Sample Receipt Checklist

Client Name: **ATL-LV**

Date Time Received: **9/20/2011 6:11:45 PM**

Work Order Number: **119929**

Received by: **MP**

Cooler Temp (Deg C): **NO COOLER**

Checklist completed by: _____
Signature  Date 9/21/11

Reviewed by: _____
Initials MP Date 9/21/11

Carrier name: ATL

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Custody seals intact 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. Container/Temp Blank temperature within acceptance limit? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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"/> |

Comments: _____

September 29, 2011

Shawn P. Duffy
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
TEL: (530) 229-3303
FAX: (530) 339-3303

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

Workorder No.: N006524

RE: SFPP - Norwalk Site

Attention: Shawn P. Duffy

Enclosed are the results for sample(s) received on September 24, 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: N006524

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8015B Extractable:

Method Blank has hit above the reporting limit but less than 1/10 of the amount measured in sample therefore reanalysis is not necessary.

Analytical Comments for EPA 8260B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Acetone , Acrolein and Tert-Butanol on QC samples N006523-005AMS and N006523-005AMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

2-Butanone recovery biased high on Laboratory Control Sample (LCS). Sample results were non-detect (ND) for this analyte therefore reanalysis of the samples was not necessary.



CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N006524
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N006524-001A	INF-09-23	Waste Water	9/23/2011 12:35:00 PM	9/26/2011	
N006524-001B	INF-09-23	Waste Water	9/23/2011 12:35:00 PM	9/26/2011	
N006524-001C	INF-09-23	Waste Water	9/23/2011 12:35:00 PM	9/26/2011	



Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 29-Sep-11

CLIENT: CH2M HILL
Lab Order: N006524
Project: SFPP - Norwalk Site
Lab ID: N006524-001

Client Sample ID: INF-09-23
Collection Date: 9/23/2011 12:35:00 PM
Matrix: WASTE WATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110926A	QC Batch:	D11VW138	PrepDate:	Analyst:	QBM
1,1,1,2-Tetrachloroethane	ND	0.061	1.0	µg/L	1	9/26/2011 07:08 PM
1,1,1-Trichloroethane	ND	0.068	1.0	µg/L	1	9/26/2011 07:08 PM
1,1,2,2-Tetrachloroethane	ND	0.054	1.0	µg/L	1	9/26/2011 07:08 PM
1,1,2-Trichloroethane	ND	0.083	1.0	µg/L	1	9/26/2011 07:08 PM
1,1-Dichloroethane	ND	0.099	0.50	µg/L	1	9/26/2011 07:08 PM
1,1-Dichloroethene	ND	0.094	1.0	µg/L	1	9/26/2011 07:08 PM
1,1-Dichloropropene	ND	0.082	1.0	µg/L	1	9/26/2011 07:08 PM
1,2,3-Trichlorobenzene	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
1,2,3-Trichloropropane	ND	0.12	1.0	µg/L	1	9/26/2011 07:08 PM
1,2,4-Trichlorobenzene	ND	0.12	1.0	µg/L	1	9/26/2011 07:08 PM
1,2,4-Trimethylbenzene	110	0.095	1.0	µg/L	1	9/26/2011 07:08 PM
1,2-Dibromo-3-chloropropane	ND	0.15	2.0	µg/L	1	9/26/2011 07:08 PM
1,2-Dibromoethane	ND	0.14	1.0	µg/L	1	9/26/2011 07:08 PM
1,2-Dichlorobenzene	ND	0.070	1.0	µg/L	1	9/26/2011 07:08 PM
1,2-Dichloroethane	ND	0.17	0.50	µg/L	1	9/26/2011 07:08 PM
1,2-Dichloropropane	ND	0.085	1.0	µg/L	1	9/26/2011 07:08 PM
1,3,5-Trimethylbenzene	34	0.087	1.0	µg/L	1	9/26/2011 07:08 PM
1,3-Dichlorobenzene	ND	0.090	1.0	µg/L	1	9/26/2011 07:08 PM
1,3-Dichloropropane	ND	0.074	1.0	µg/L	1	9/26/2011 07:08 PM
1,4-Dichlorobenzene	ND	0.092	1.0	µg/L	1	9/26/2011 07:08 PM
2,2-Dichloropropane	ND	0.061	1.0	µg/L	1	9/26/2011 07:08 PM
2-Butanone	ND	1.0	10	µg/L	1	9/26/2011 07:08 PM
2-Chlorotoluene	ND	0.080	1.0	µg/L	1	9/26/2011 07:08 PM
4-Chlorotoluene	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
4-Isopropyltoluene	2.9	0.080	1.0	µg/L	1	9/26/2011 07:08 PM
4-Methyl-2-pentanone	ND	0.76	10	µg/L	1	9/26/2011 07:08 PM
Acetone	13	1.6	10	µg/L	1	9/26/2011 07:08 PM
Acrolein	ND	4.3	20	µg/L	1	9/26/2011 07:08 PM
Acrylonitrile	ND	0.61	20	µg/L	1	9/26/2011 07:08 PM
Benzene	2800	3.8	50	µg/L	50	9/26/2011 06:19 PM
Bromobenzene	ND	0.082	1.0	µg/L	1	9/26/2011 07:08 PM
Bromochloromethane	ND	0.15	1.0	µg/L	1	9/26/2011 07:08 PM
Bromodichloromethane	ND	0.063	1.0	µg/L	1	9/26/2011 07:08 PM
Bromoform	ND	0.086	1.0	µg/L	1	9/26/2011 07:08 PM
Bromomethane	ND	0.13	1.0	µg/L	1	9/26/2011 07:08 PM
Carbon disulfide	ND	0.054	1.0	µg/L	1	9/26/2011 07:08 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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 29-Sep-11

CLIENT: CH2M HILL
Lab Order: N006524
Project: SFPP - Norwalk Site
Lab ID: N006524-001

Client Sample ID: INF-09-23
Collection Date: 9/23/2011 12:35:00 PM
Matrix: WASTE WATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110926A	QC Batch:	D11VW138	PrepDate:	Analyst:	QBM
Carbon tetrachloride	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
Chlorobenzene	ND	0.092	1.0	µg/L	1	9/26/2011 07:08 PM
Chloroethane	ND	0.14	1.0	µg/L	1	9/26/2011 07:08 PM
Chloroform	ND	0.058	1.0	µg/L	1	9/26/2011 07:08 PM
Chloromethane	ND	0.054	1.0	µg/L	1	9/26/2011 07:08 PM
cis-1,2-Dichloroethene	ND	0.11	1.0	µg/L	1	9/26/2011 07:08 PM
cis-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
Di-isopropyl ether	22	0.072	1.0	µg/L	1	9/26/2011 07:08 PM
Dibromochloromethane	ND	0.061	1.0	µg/L	1	9/26/2011 07:08 PM
Dibromomethane	ND	0.15	1.0	µg/L	1	9/26/2011 07:08 PM
Dichlorodifluoromethane	ND	0.12	1.0	µg/L	1	9/26/2011 07:08 PM
Ethyl tert-butyl ether	ND	0.070	1.0	µg/L	1	9/26/2011 07:08 PM
Ethylbenzene	83	0.051	1.0	µg/L	1	9/26/2011 07:08 PM
Freon-113	ND	0.080	1.0	µg/L	1	9/26/2011 07:08 PM
Hexachlorobutadiene	ND	0.17	1.0	µg/L	1	9/26/2011 07:08 PM
Isopropylbenzene	16	0.057	1.0	µg/L	1	9/26/2011 07:08 PM
m,p-Xylene	260	0.17	1.0	µg/L	1	9/26/2011 07:08 PM
Methylene chloride	ND	0.10	2.0	µg/L	1	9/26/2011 07:08 PM
MTBE	300	0.89	10	µg/L	10	9/26/2011 06:43 PM
n-Butylbenzene	3.7	0.082	1.0	µg/L	1	9/26/2011 07:08 PM
n-Propylbenzene	33	0.087	1.0	µg/L	1	9/26/2011 07:08 PM
Naphthalene	87	0.056	1.0	µg/L	1	9/26/2011 07:08 PM
o-Xylene	78	0.077	1.0	µg/L	1	9/26/2011 07:08 PM
sec-Butylbenzene	2.9	0.098	1.0	µg/L	1	9/26/2011 07:08 PM
Styrene	ND	0.072	1.0	µg/L	1	9/26/2011 07:08 PM
Tert-amyl methyl ether	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
Tert-Butanol	1300	12	50	µg/L	10	9/26/2011 06:43 PM
tert-Butylbenzene	ND	0.062	1.0	µg/L	1	9/26/2011 07:08 PM
Tetrachloroethene	ND	0.13	1.0	µg/L	1	9/26/2011 07:08 PM
Toluene	160	0.12	2.0	µg/L	1	9/26/2011 07:08 PM
trans-1,2-Dichloroethene	ND	0.094	1.0	µg/L	1	9/26/2011 07:08 PM
trans-1,3-Dichloropropene	ND	0.10	1.0	µg/L	1	9/26/2011 07:08 PM
Trichloroethene	ND	0.060	1.0	µg/L	1	9/26/2011 07:08 PM
Trichlorofluoromethane	ND	0.097	1.0	µg/L	1	9/26/2011 07:08 PM
Vinyl chloride	ND	0.12	1.0	µg/L	1	9/26/2011 07:08 PM
Xylenes, Total	340	1.5	2.0	µg/L	1	9/26/2011 07:08 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interferenc
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: 29-Sep-11

CLIENT: CH2M HILL
Lab Order: N006524
Project: SFPP - Norwalk Site
Lab ID: N006524-001

Client Sample ID: INF-09-23
Collection Date: 9/23/2011 12:35:00 PM
Matrix: WASTE WATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS1_110926A	QC Batch:	D11VW138	PrepDate:	Analyst:	QBM	
Surr:	1,2-Dichloroethane-d4	97.0	0	72-119	%REC	50	9/26/2011 06:19 PM
Surr:	1,2-Dichloroethane-d4	99.0	0	72-119	%REC	1	9/26/2011 07:08 PM
Surr:	1,2-Dichloroethane-d4	97.4	0	72-119	%REC	10	9/26/2011 06:43 PM
Surr:	4-Bromofluorobenzene	106	0	76-119	%REC	1	9/26/2011 07:08 PM
Surr:	4-Bromofluorobenzene	109	0	76-119	%REC	50	9/26/2011 06:19 PM
Surr:	4-Bromofluorobenzene	108	0	76-119	%REC	10	9/26/2011 06:43 PM
Surr:	Dibromofluoromethane	93.2	0	85-115	%REC	50	9/26/2011 06:19 PM
Surr:	Dibromofluoromethane	94.9	0	85-115	%REC	10	9/26/2011 06:43 PM
Surr:	Dibromofluoromethane	89.1	0	85-115	%REC	1	9/26/2011 07:08 PM
Surr:	Toluene-d8	98.6	0	81-120	%REC	1	9/26/2011 07:08 PM
Surr:	Toluene-d8	103	0	81-120	%REC	10	9/26/2011 06:43 PM
Surr:	Toluene-d8	105	0	81-120	%REC	50	9/26/2011 06:19 PM

TPH-FUEL PRODUCT BY GC/FID

EPA 3510C

EPA 8015B

RunID:	GC3_110928B	QC Batch:	37898	PrepDate:	9/26/2011	Analyst:	PYW
TPH-Fuel Product	2800	13	50	B	ug/L	1	9/29/2011 04:45 AM
Surr:	Octacosane	81.3	0	26-152	%REC	1	9/29/2011 04:45 AM
Surr:	p-Terphenyl	89.8	0	57-132	%REC	1	9/29/2011 04:45 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	GC4_110927A	QC Batch:	E11VW051	PrepDate:	Analyst:	QBM	
TPH-Gasoline (C4-C12)	6400	12	200	µg/L	2	9/27/2011	
Surr:	Chlorobenzene - d5	91.4	0	74-138	%REC	2	9/27/2011

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 Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL

Work Order: N006524

Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-37898	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 9/26/2011	RunNo: 81654		
Client ID: PBW	Batch ID: 37898	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 9/29/2011	SeqNo: 1312539		
Analyte	Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual
TPH-Fuel Product	57.699	50					B
Surr: Octacosane	66.538		80.00		83.2	26	152
Surr: p-Terphenyl	70.479		80.00		88.1	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

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: E110927LCS	SampType: LCS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81638						
Client ID: LCSW	Batch ID: E11VW051	TestNo: EPA 8015B		Analysis Date: 9/27/2011	SeqNo: 1312167						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	847.000	100	1000	0	84.7	67	136				
Surr: Chlorobenzene - d5	47.331		50.00		94.7	74	138				

Sample ID: E110927MB1	SampType: MBLK	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81638						
Client ID: PBW	Batch ID: E11VW051	TestNo: EPA 8015B		Analysis Date: 9/27/2011	SeqNo: 1312168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100			104	74	138				
Surr: Chlorobenzene - d5	51.778		50.00								

Sample ID: N006518-008AMS	SampType: MS	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81638						
Client ID: ZZZZZ	Batch ID: E11VW051	TestNo: EPA 8015B		Analysis Date: 9/27/2011	SeqNo: 1312169						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	748.000	100	1000	0	74.8	67	136				
Surr: Chlorobenzene - d5	44.533		50.00		89.1	74	138				

Sample ID: N006518-008MSD	SampType: MSD	TestCode: 8015_W_GSF	Units: µg/L	Prep Date:	RunNo: 81638						
Client ID: ZZZZZ	Batch ID: E11VW051	TestNo: EPA 8015B		Analysis Date: 9/27/2011	SeqNo: 1312171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	763.000	100	1000	0	76.3	67	136	748.0	1.99	30	
Surr: Chlorobenzene - d5	44.095		50.00		88.2	74	138		0	0	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110926LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625
Client ID: LCSW	Batch ID: D111VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311948

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	17.200	1.0	20.00	0	86.0	81	129				
1,1,1-Trichloroethane	17.180	1.0	20.00	0	85.9	67	132				
1,1,2,2-Tetrachloroethane	21.020	1.0	20.00	0	105	63	128				
1,1,2-Trichloroethane	20.830	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	20.310	0.50	20.00	0	102	69	133				
1,1-Dichloroethene	20.610	1.0	20.00	0	103	68	130				
1,1-Dichloropropene	20.320	1.0	20.00	0	102	73	132				
1,2,3-Trichlorobenzene	22.110	1.0	20.00	0	111	67	137				
1,2,3-Trichloropropane	21.420	1.0	20.00	0	107	73	124				
1,2,4-Trichlorobenzene	22.340	1.0	20.00	0	112	66	134				
1,2,4-Trimethylbenzene	22.050	1.0	20.00	0	110	74	132				
1,2-Dibromo-3-chloropropane	16.640	2.0	20.00	0	83.2	50	132				
1,2-Dibromoethane	20.310	1.0	20.00	0	102	80	121				
1,2-Dichlorobenzene	20.940	1.0	20.00	0	105	71	122				
1,2-Dichloroethane	22.660	0.50	20.00	0	113	69	132				
1,2-Dichloropropane	19.700	1.0	20.00	0	98.5	75	125				
1,3,5-Trimethylbenzene	22.220	1.0	20.00	0	111	74	131				
1,3-Dichlorobenzene	21.810	1.0	20.00	0	109	75	124				
1,3-Dichloropropane	21.450	1.0	20.00	0	107	73	126				
1,4-Dichlorobenzene	21.360	1.0	20.00	0	107	74	123				
2,2-Dichloropropane	15.690	1.0	20.00	0	78.4	69	137				
2-Butanone	303.450	10	200.0	0	152	49	136				S
2-Chlorotoluene	23.100	1.0	20.00	0	116	73	126				
4-Chlorotoluene	22.400	1.0	20.00	0	112	74	128				
4-Isopropyltoluene	22.630	1.0	20.00	0	113	73	130				
4-Methyl-2-pentanone	228.360	10	200.0	0	114	58	134				
Acetone	245.560	10	200.0	0	123	40	135				
Acrolein	171.870	20	200.0	0	85.9	75	125				
Acrylonitrile	216.050	20	200.0	0	108	75	125				
Benzene	19.720	1.0	20.00	0	98.6	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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110926LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: LCSW	Batch ID: D111VW138	TestNo: EPA 8260B	Prep Date:
Analyte	Result	PQL	SPK value
		SPK Ref Val	Units: µg/L
		%REC	LowLimit
		HighLimit	RPD Ref Val
		%RPD	RPDLimit
		Qual	RunNo: 81625
			SeqNo: 1311948
			Analysis Date: 9/26/2011

Analyte	Result	PQL	SPK value	SPK Ref Val	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	20.890	1.0	20.00	0		104	76	124				
Bromochloromethane	19.730	1.0	20.00	0		98.6	65	129				
Bromodichloromethane	18.540	1.0	20.00	0		92.7	76	121				
Bromoform	17.170	1.0	20.00	0		85.9	69	128				
Bromomethane	20.940	1.0	20.00	0		105	53	141				
Carbon disulfide	19.230	1.0	20.00	0		96.2	75	125				
Carbon tetrachloride	15.850	1.0	20.00	0		79.2	66	138				
Chlorobenzene	20.910	1.0	20.00	0		105	81	122				
Chloroethane	22.720	1.0	20.00	0		114	58	133				
Chloroform	21.750	1.0	20.00	0		109	69	128				
Chloromethane	18.270	1.0	20.00	0		91.4	56	131				
cis-1,2-Dichloroethene	19.730	1.0	20.00	0		98.6	72	126				
cis-1,3-Dichloropropene	18.770	1.0	20.00	0		93.8	69	131				
Di-isopropyl ether	19.850	1.0	20.00	0		99.2	70	130				
Dibromochloromethane	18.250	1.0	20.00	0		91.2	66	133				
Dibromomethane	21.260	1.0	20.00	0		106	76	125				
Dichlorodifluoromethane	19.570	1.0	20.00	0		97.9	53	153				
Ethyl tert-butyl ether	19.340	1.0	20.00	0		96.7	70	130				
Ethylbenzene	22.000	1.0	20.00	0		110	73	127				
Freon-113	19.700	1.0	20.00	0		98.5	75	125				
Hexachlorobutadiene	22.110	1.0	20.00	0		111	67	131				
Isopropylbenzene	22.260	1.0	20.00	0		111	75	127				
m,p-Xylene	46.350	1.0	40.00	0		116	76	128				
Methylene chloride	18.840	2.0	20.00	0		94.2	63	137				
MTBE	19.570	1.0	20.00	0		97.9	65	123				
n-Butylbenzene	23.340	1.0	20.00	0		117	69	137				
n-Propylbenzene	22.890	1.0	20.00	0		114	72	129				
Naphthalene	20.690	1.0	20.00	0		103	54	138				
o-Xylene	21.960	1.0	20.00	0		110	80	121				
sec-Butylbenzene	22.450	1.0	20.00	0		112	72	127				

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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110926LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: LCSW	Batch ID: D11VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Styrene	21.030	1.0	20.00	0	105	65	134				
Tert-amyl methyl ether	19.150	1.0	20.00	0	95.8	70	130				
Tert-Butanol	89.230	5.0	100.0	0	89.2	70	130				
tert-Butylbenzene	21.990	1.0	20.00	0	110	70	129				
Tetrachloroethene	22.170	1.0	20.00	0	111	66	128				
Toluene	20.800	2.0	20.00	0	104	77	122				
trans-1,2-Dichloroethene	19.420	1.0	20.00	0	97.1	63	137				
trans-1,3-Dichloropropene	19.190	1.0	20.00	0	96.0	59	135				
Trichloroethene	19.330	1.0	20.00	0	96.7	70	127				
Trichlorofluoromethane	24.450	1.0	20.00	0	122	57	129				
Vinyl chloride	21.220	1.0	20.00	0	106	50	134				
Xylenes, Total	68.310	2.0	60.00	0	114	75	125				
Surr: 1,2-Dichloroethane-d4	25.900		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	25.880		25.00		104	76	119				
Surr: Dibromofluoromethane	25.340		25.00		101	85	115				
Surr: Toluene-d8	24.770		25.00		99.1	81	120				

Sample ID: N006523-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: ZZZZZ	Batch ID: D11VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	17.230	1.0	20.00	0	86.2	81	129				
1,1,1-Trichloroethane	16.820	1.0	20.00	0	84.1	67	132				
1,1,2,2-Tetrachloroethane	18.140	1.0	20.00	0	90.7	63	128				
1,1,2-Trichloroethane	18.340	1.0	20.00	0	91.7	75	125				
1,1-Dichloroethane	19.280	0.50	20.00	0	96.4	69	133				
1,1-Dichloroethene	19.960	1.0	20.00	0	99.8	68	130				
1,1-Dichloropropene	20.750	1.0	20.00	0	104	73	132				
1,2,3-Trichlorobenzene	21.110	1.0	20.00	0	106	67	137				
1,2,3-Trichloropropane	18.980	1.0	20.00	0	94.9	73	124				

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006523-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	RunNo: 81625
Client ID: ZZZZZ	Batch ID: D11VW138	TestNo: EPA 8260B	Prep Date:	SeqNo: 1311949
		Analysis Date: 9/26/2011		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	22.050	1.0	20.00	0	110	66	134				
1,2,4-Trimethylbenzene	22.700	1.0	20.00	0	114	74	132				
1,2-Dibromo-3-chloropropane	14.600	2.0	20.00	0	73.0	50	132				
1,2-Dibromoethane	17.290	1.0	20.00	0	86.5	80	121				
1,2-Dichlorobenzene	20.660	1.0	20.00	0	103	71	122				
1,2-Dichloroethane	20.140	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	18.580	1.0	20.00	0	92.9	75	125				
1,3,5-Trimethylbenzene	23.010	1.0	20.00	0	115	74	131				
1,3-Dichlorobenzene	21.900	1.0	20.00	0	110	75	124				
1,3-Dichloropropane	19.490	1.0	20.00	0	97.5	73	126				
1,4-Dichlorobenzene	21.570	1.0	20.00	0	108	74	123				
2,2-Dichloropropane	15.530	1.0	20.00	0	77.7	69	137				
2-Butanone	128.460	10	200.0	0	64.2	49	136				
2-Chlorotoluene	23.730	1.0	20.00	0	119	73	126				
4-Chlorotoluene	23.160	1.0	20.00	0	116	74	128				
4-Isopropyltoluene	23.420	1.0	20.00	0	117	73	130				
4-Methyl-2-pentanone	177.750	10	200.0	0	88.9	58	134				S
Acetone	64.900	10	200.0	0	32.4	40	135				
Acrolein	155.590	20	200.0	0	77.8	75	125				
Acrylonitrile	170.860	20	200.0	0	85.4	75	125				
Benzene	19.650	1.0	20.00	0	98.2	81	122				
Bromobenzene	20.990	1.0	20.00	0	105	76	124				
Bromochloromethane	17.840	1.0	20.00	0	89.2	65	129				
Bromodichloromethane	17.450	1.0	20.00	0	87.2	76	121				
Bromoform	15.300	1.0	20.00	0	76.5	69	128				
Bromomethane	20.180	1.0	20.00	0	101	53	141				
Carbon disulfide	18.690	1.0	20.00	0	93.5	75	125				
Carbon tetrachloride	16.470	1.0	20.00	0	82.4	66	138				
Chlorobenzene	20.860	1.0	20.00	0	104	81	122				
Chloroethane	21.590	1.0	20.00	0	108	58	133				

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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006523-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D11VW138	TestNo: EPA 8260B	
Prep Date:		RunNo: 81625	
Analysis Date: 9/26/2011		SeqNo: 1311949	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	20.390	1.0	20.00	0	102	69	128				
Chloromethane	17.670	1.0	20.00	0	88.4	56	131				
cis-1,2-Dichloroethene	18.760	1.0	20.00	0	93.8	72	126				
cis-1,3-Dichloropropene	17.620	1.0	20.00	0	88.1	69	131				
Di-isopropyl ether	18.350	1.0	20.00	0	91.8	70	130				
Dibromochloromethane	17.060	1.0	20.00	0	85.3	66	133				
Dibromomethane	18.740	1.0	20.00	0	93.7	76	125				
Dichlorodifluoromethane	19.180	1.0	20.00	0	95.9	53	153				
Ethyl tert-butyl ether	17.830	1.0	20.00	0	89.2	70	130				
Ethylbenzene	22.290	1.0	20.00	0	111	73	127				
Freon-113	19.130	1.0	20.00	0	95.7	75	125				
Hexachlorobutadiene	24.180	1.0	20.00	0	121	67	131				
Isopropylbenzene	23.090	1.0	20.00	0	115	75	127				
m,p-Xylene	46.990	1.0	40.00	0	117	76	128				
Methylene chloride	17.670	2.0	20.00	1,220	82.3	63	137				
MTBE	17.970	1.0	20.00	1,080	84.4	65	123				
n-Butylbenzene	24.320	1.0	20.00	0	122	69	137				
n-Propylbenzene	23.780	1.0	20.00	0	119	72	129				
Naphthalene	18.810	1.0	20.00	0	94.1	54	138				
o-Xylene	21.910	1.0	20.00	0	110	80	121				
sec-Butylbenzene	23.390	1.0	20.00	0	117	72	127				
Styrene	20.810	1.0	20.00	0	104	65	134				
Tert-amyl methyl ether	17.590	1.0	20.00	0	88.0	70	130				
Tert-Butanol	65.520	5.0	100.0	0	65.5	70	130				S
tert-Butylbenzene	22.590	1.0	20.00	0	113	70	129				
Tetrachloroethene	22.530	1.0	20.00	0	113	66	128				
Toluene	20.600	2.0	20.00	0	103	77	122				
trans-1,2-Dichloroethene	19.020	1.0	20.00	0	95.1	63	137				
trans-1,3-Dichloropropene	17.130	1.0	20.00	0	85.7	59	135				
Trichloroethene	19.510	1.0	20.00	0	97.6	70	127				

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



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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: N006523-005AMS	SampType: MS	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: ZZZZZZ	Batch ID: D111VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	23.680	1.0	20.00	0	118	57	129				
Vinyl chloride	20.380	1.0	20.00	0	102	50	134				
Xylenes, Total	68.900	2.0	60.00	0	115	75	125				
Surr: 1,2-Dichloroethane-d4	23.770		25.00		95.1	72	119				
Surr: 4-Bromofluorobenzene	26.850		25.00		107	76	119				
Surr: Dibromofluoromethane	24.400		25.00		97.6	85	115				
Surr: Toluene-d8	25.780		25.00		103	81	120				

Sample ID: N006523-005AMS	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: ZZZZZZ	Batch ID: D111VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	17.480	1.0	20.00	0	87.4	81	129	17.23	1.44	20	
1,1,1-Trichloroethane	17.430	1.0	20.00	0	87.2	67	132	16.82	3.56	20	
1,1,2,2-Tetrachloroethane	17.800	1.0	20.00	0	89.0	63	128	18.14	1.89	20	
1,1,2-Trichloroethane	17.940	1.0	20.00	0	89.7	75	125	18.34	2.21	20	
1,1-Dichloroethane	19.800	0.50	20.00	0	99.0	69	133	19.28	2.66	20	
1,1-Dichloroethene	20.620	1.0	20.00	0	103	68	130	19.96	3.25	20	
1,1-Dichloropropene	20.890	1.0	20.00	0	104	73	132	20.75	0.672	20	
1,2,3-Trichlorobenzene	21.760	1.0	20.00	0	109	67	137	21.11	3.03	20	
1,2,3-Trichloropropane	17.650	1.0	20.00	0	88.2	73	124	18.98	7.26	20	
1,2,4-Trichlorobenzene	22.670	1.0	20.00	0	113	66	134	22.05	2.77	20	
1,2,4-Trimethylbenzene	22.360	1.0	20.00	0	112	74	132	22.70	1.51	20	
1,2-Dibromo-3-chloropropane	14.700	2.0	20.00	0	73.5	50	132	14.60	0.683	20	
1,2-Dibromoethane	17.180	1.0	20.00	0	85.9	80	121	17.29	0.638	20	
1,2-Dichlorobenzene	20.840	1.0	20.00	0	104	71	122	20.66	0.867	20	
1,2-Dichloroethane	19.740	0.50	20.00	0	98.7	69	132	20.14	2.01	20	
1,2-Dichloropropane	19.120	1.0	20.00	0	95.6	75	125	18.58	2.86	20	
1,3,5-Trimethylbenzene	22.810	1.0	20.00	0	114	74	131	23.01	0.873	20	
1,3-Dichlorobenzene	21.810	1.0	20.00	0	109	75	124	21.90	0.412	20	

Qualifiers:

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

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006523-005AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L
Client ID: ZZZZZ	Batch ID: D11VW138	TestNo: EPA 8260B	Prep Date:
			Analysis Date: 9/26/2011
			RunNo: 81625
			SeqNo: 1311950

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.260	1.0	20.00	0	96.3	73	126	19.49	1.19	20	
1,4-Dichlorobenzene	21.380	1.0	20.00	0	107	74	123	21.57	0.885	20	
2,2-Dichloropropane	15.720	1.0	20.00	0	78.6	69	137	15.53	1.22	20	
2-Butanone	119.730	10	200.0	0	59.9	49	136	128.5	7.03	20	
2-Chlorotoluene	23.770	1.0	20.00	0	119	73	126	23.73	0.168	20	
4-Chlorotoluene	22.810	1.0	20.00	0	114	74	128	23.16	1.52	20	
4-Isopropyltoluene	23.330	1.0	20.00	0	117	73	130	23.42	0.385	20	
4-Methyl-2-pentanone	164.470	10	200.0	0	82.2	58	134	177.8	7.76	20	
Acetone	69.550	10	200.0	0	34.8	40	135	64.90	6.92	20	S
Acrolein	147.840	20	200.0	0	73.9	75	125	155.6	5.11	20	S
Acrylonitrile	172.130	20	200.0	0	86.1	75	125	170.9	0.741	20	
Benzene	19.940	1.0	20.00	0	99.7	81	122	19.65	1.47	20	
Bromobenzene	20.830	1.0	20.00	0	104	76	124	20.99	0.765	20	
Bromochloromethane	18.560	1.0	20.00	0	92.8	65	129	17.84	3.96	20	
Bromodichloromethane	17.970	1.0	20.00	0	89.8	76	121	17.45	2.94	20	
Bromoform	15.440	1.0	20.00	0	77.2	69	128	15.30	0.911	20	
Bromomethane	20.680	1.0	20.00	0	103	53	141	20.18	2.45	20	
Carbon disulfide	19.010	1.0	20.00	0	95.1	75	125	18.69	1.70	20	
Carbon tetrachloride	16.560	1.0	20.00	0	82.8	66	138	16.47	0.545	20	
Chlorobenzene	21.250	1.0	20.00	0	106	81	122	20.86	1.85	20	
Chloroethane	22.570	1.0	20.00	0	113	58	133	21.59	4.44	20	
Chloroform	20.750	1.0	20.00	0	104	69	128	20.39	1.75	20	
Chloromethane	18.470	1.0	20.00	0	92.4	56	131	17.67	4.43	20	
cis-1,2-Dichloroethene	19.530	1.0	20.00	0	97.6	72	126	18.76	4.02	20	
cis-1,3-Dichloropropene	17.950	1.0	20.00	0	89.8	69	131	17.62	1.86	20	
Di-isopropyl ether	19.080	1.0	20.00	0	95.4	70	130	18.35	3.90	20	
Dibromochloromethane	17.220	1.0	20.00	0	86.1	66	133	17.06	0.933	20	
Dibromomethane	18.570	1.0	20.00	0	92.8	76	125	18.74	0.911	20	
Dichlorodifluoromethane	19.650	1.0	20.00	0	98.2	53	153	19.18	2.42	20	
Ethyl tert-butyl ether	18.090	1.0	20.00	0	90.4	70	130	17.83	1.45	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



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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N006523-005AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625
Client ID: ZZZZZZ	Batch ID: D11VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311950

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	22.680	1.0	20.00	0	113	73	127	22.29	1.73	20	
Freon-113	19.180	1.0	20.00	0	95.9	75	125	19.13	0.261	20	
Hexachlorobutadiene	24.250	1.0	20.00	0	121	67	131	24.18	0.289	20	
Isopropylbenzene	22.890	1.0	20.00	0	114	75	127	23.09	0.870	20	
m,p-Xylene	47.800	1.0	40.00	0	120	76	128	46.99	1.71	20	
Methylene chloride	17.570	2.0	20.00	1.220	81.8	63	137	17.67	0.568	20	
MTBE	18.430	1.0	20.00	1.080	86.8	65	123	17.97	2.53	20	
n-Butylbenzene	24.250	1.0	20.00	0	121	69	137	24.32	0.288	20	
n-Propylbenzene	23.350	1.0	20.00	0	117	72	129	23.78	1.82	20	
Naphthalene	18.160	1.0	20.00	0	90.8	54	138	18.81	3.52	20	
o-Xylene	22.410	1.0	20.00	0	112	80	121	21.91	2.26	20	
sec-Butylbenzene	23.210	1.0	20.00	0	116	72	127	23.39	0.773	20	
Styrene	20.660	1.0	20.00	0	103	65	134	20.81	0.723	20	
Tert-amyl methyl ether	17.270	1.0	20.00	0	86.4	70	130	17.59	1.84	20	
Tert-Butanol	77.000	5.0	100.0	0	77.0	70	130	65.52	16.1	20	
tert-Butylbenzene	22.590	1.0	20.00	0	113	70	129	22.59	0	20	
Tetrachloroethene	22.770	1.0	20.00	0	114	66	128	22.53	1.06	20	
Toluene	20.930	2.0	20.00	0	105	77	122	20.60	1.59	20	
trans-1,2-Dichloroethene	19.340	1.0	20.00	0	96.7	63	137	19.02	1.67	20	
trans-1,3-Dichloropropene	17.010	1.0	20.00	0	85.0	59	135	17.13	0.703	20	
Trichloroethene	19.750	1.0	20.00	0	98.8	70	127	19.51	1.22	20	
Trichlorofluoromethane	23.850	1.0	20.00	0	119	57	129	23.68	0.715	20	
Vinyl chloride	21.260	1.0	20.00	0	106	50	134	20.38	4.23	20	
Xylenes, Total	70.210	2.0	60.00	0	117	75	125	68.90	1.88	20	
Surr: 1,2-Dichloroethane-d4	24.240		25.00		97.0	72	119		0		
Surr: 4-Bromofluorobenzene	27.070		25.00		108	76	119		0		
Surr: Dibromofluoromethane	24.990		25.00		100	85	115		0		
Surr: Toluene-d8	25.880		25.00		104	81	120		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

ANALYTICAL QC SUMMARY REPORT

CLIENT: CH2M HILL
Work Order: N006524
Project: SFPP - Norwalk Site

TestCode: 8260_WP_SFPP

Sample ID: **D110926MB4** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **81625**
 Client ID: **PBW** Batch ID: **D11VW138** TestNo: **EPA 8260B** Analysis Date: **9/26/2011** SeqNo: **1311951**

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%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
 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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110926MB4	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: PBW	Batch ID: D111VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	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	1.220	2.0									J
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									

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



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: N006524
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: D110926MB4	SampType: MBLK	TestCode: 8260_WP_SF	Units: µg/L	Prep Date:	RunNo: 81625						
Client ID: PBW	Batch ID: D11VW138	TestNo: EPA 8260B		Analysis Date: 9/26/2011	SeqNo: 1311951						
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	27.220		25.00		109	72		119			
Surr: 4-Bromofluorobenzene	27.410		25.00		110	76		119			
Surr: Dibromofluoromethane	24.410		25.00		97.6	85		115			
Surr: Toluene-d8	27.270		25.00		109	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

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: 09-25-11
 PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh ADDRESS: 1100 Town & Country Road CITY: Orange, CA 92868 TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com		CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site PROJECT CONTACT: James Dye SAMPLER(S) SIGNATURE: 		P.O. NO.: QUOTE NO.: LAB USE ONLY 	
TURNDOWN 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 / /		REQUESTED ANALYSIS			
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.		NO. OF CONT. TPH-g (8015M) <input checked="" type="checkbox"/> 8 TPH-hp (8015M) <input checked="" type="checkbox"/> VOCs + Oxygenates (8260B) <input checked="" type="checkbox"/>		Comments N006524-1	
SAMPLE ID INF-09-23		LOCATION/ DESCRIPTION Influent		SAMPLING DATE: 9-23-11 TIME: 1235 MAT. RIX: WW	
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 9/23/11 Time: 1345	
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 9/23/11 Time: 1452	
Relinquished by: (Signature) 		Received by: (Signature) 		Date: 9/24/11 Time: 0950	

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: 9/24/2011 Workorder: N006524
 Rep sample Temp (Deg C): 5.6 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: OnTrac
 Last 4 digits of Tracking No.: 8492 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"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed B NS 9/26/11

Reviewed By: [Signature] 9/26/11



800-334-5000
Call For A Pickup!

FROM (Company)

Street Address
 3278 WILSON AVE
 State
 MD

City
 SEABOARD

Zip Code (Required)
 20750

Phone Number

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

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

Street Address
 2151 W POST RD
 Suite #

City
 LAUREL

State
 MD

Zip Code (Required)
 20750

Phone Number
 302-207-2650

Recipient's Name
 SBTI REVENUE

Shipper's Ref. #

Account Number

B10241808492

Date

Y Y Y
 M M
 D D



10241808492

Service Options

If no box is checked, Service Series will be applied. Your shipping charges will be \$30.00. Shipped by 9:00 AM. Check service guide or call 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 (signature required)
- Declared Value \$ (maximum \$25.00)
- C.O.D. Amount \$ (extra C.O.D. fee to package)

Billing Information

- Bill Shipper's Account
- Bill Other Acct #

Weight

8 oz. Letter
 or
 Weight lbs. (Subject to verification)

Dim weight charge if greater than actual weight

L in. X W in. X H in.
 +225 =

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

Driver #

Driver's Initials

Shipper's Signature

Shipper's Name