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December 30, 2005
Project No. 2007-0057-01

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Well Installation Report
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

Dear Mr. Chan:

Stratus Environmental, Inc. (Stratus), on behalf of USA Gasoline Corporation (USA), has prepared this *Well Installation Report* for former USA Service Station No. 57 (the site), located at 10700 MacArthur Boulevard, Oakland, California (see Figure 1). In a document titled *Work Plan for Well Installation and In-Situ Groundwater Remediation* (*Work Plan*, August 31, 2005), Stratus proposed the installation of four on-site extraction wells to be used for remediation of residual and dissolved phase petroleum hydrocarbon impact previously identified beneath the site. Alameda County Health Care Services Agency (ACHCSA) subsequently approved the *Work Plan*, with comments, in a letter dated September 9, 2005. This report documents the installation of the extraction wells, and presents findings associated with completion of the work.

SITE BACKGROUND

The site is currently an undeveloped, partially paved parcel situated on the western corner of the intersection of 108th Avenue and Foothills Boulevard in Oakland, California, approximately 400 feet west of Interstate 580. This parcel comprises the southeastern corner of the Foothills Square Shopping Center. It is our understanding that the property owner intends to re-develop the portion of the Foothills Square Shopping Center formerly occupied by the site.

USA Station No. 57 was closed, and the gasoline underground storage tanks (USTs) were removed, in July 1994. Approximately 775 cubic yards of impacted soil was excavated from the vicinity of the UST pit and product lines between August and October 1994. Residual petroleum hydrocarbon impact to soil appears to be limited to the immediate

vicinity of the former fuel dispenser islands and USTs. The approximate former locations of the USTs and dispenser islands are shown on Figure 2.

Eight groundwater monitoring wells (S-1, S-2, and MW-3 through MW-8) were installed, and twelve exploratory soil borings (A through D and B-1 through B-8) were advanced, in order to assess the extent of subsurface petroleum hydrocarbon impact beneath the site. This site characterization work was completed between 1987 and 1995. Table 1 summarizes details pertinent to the drilling and well construction activities. The well network has been monitored and sampled on a quarterly basis since 1995.

Petroleum hydrocarbon impact to soil extends to the saturated zone in the vicinity of the former UST complex and fuel dispenser islands. Total petroleum hydrocarbons as gasoline (TPHG), benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) have historically been reported in groundwater samples collected from wells S-1, S-2, and MW-3 (see Figure 2).

Stratus initiated intermittent dual phase extraction (DPE), using wells S-1, S-2, and MW-3 for extraction, in July 2004. Given historical soil and groundwater analytical data for the site, relatively low concentrations of petroleum hydrocarbons were reported for samples collected from the extracted soil vapor and groundwater. The relatively deep screening intervals of the wells used for extraction, relative to groundwater elevations beneath the site, appear to have resulted in the low petroleum hydrocarbon mass extraction rates. As of September 2005, an estimated mass of 19.8 pounds of TPHG has been removed from the subsurface using DPE.

SITE INVESTIGATION ACTIVITIES

The objectives of this investigation were to:

- Install shallow screened extraction wells to be used in future DPE events.
- Further characterize petroleum hydrocarbon impact to the subsurface.

To accomplish these objectives, Stratus implemented the following work activities:

- Drilled and installed four (4) 4-inch diameter extraction wells (EX-1 through EX-4) to a depth of approximately 25 feet below ground surface (bgs) using 10-inch diameter hollow stem augers.
- Collected soil samples in 5-foot intervals during the advancement of the well borings.
- Developed, sampled, and surveyed the newly installed extraction wells.

Prior to implementation of field activities, well installation permits were obtained from Alameda County Public Works Agency (ACPWA). Drilling locations were marked 48 hours prior to fieldwork. Underground Service Alert, ACPWA, ACHCSA, USA, and the property owner were notified 48 hours prior to beginning work activities. Standard field practices and procedures for all fieldwork are described in Appendix A. All work was conducted under the direct supervision of a State of California Registered Geologist. A copy of the drilling permit is provided in Appendix B.

FIELD ACTIVITIES

Soil Borings

A Stratus geologist was on-site to oversee site assessment activities on October 6 and 7, 2005. Woodward Drilling Company (C-57 #710079) completed the drilling activities using a truck mounted drill rig equipped with 10-inch diameter hollow stem augers. Soils were classified on-site using the Unified Soil Classification System. Boring logs detailing soil stratigraphy are presented in Appendix B. Each boring was converted to an extraction well, as described below. Well boring locations are included on Figure 2.

The initial 5 feet of each boring were advanced with a hand auger and/or post-hole digger to reduce the possibility of damaging underground utilities. Soil samples were collected from the subsurface using a California-modified split spoon sampler equipped with three brass sleeves. The end of each retained sample was covered with Teflon™ sheets, capped, and sealed. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. Select soil samples were forwarded to a state certified analytical laboratory for chemical analysis. Strict chain-of-custody procedures were followed from the time the samples were collected until the time the samples were relinquished to the laboratory.

Additional soil from each sampled interval was placed and sealed in plastic bags to allow the accumulation of volatile organic compound (VOC) vapors within the airspace in the bags. A portable photo-ionization detector (PID) was used to measure VOC concentrations from each sample in parts per million by volume (ppmv). PID results are included on the boring logs presented in Appendix B.

Extraction Well Installation

Wells EX-1 through EX-4 were constructed using 4-inch diameter PVC well casing and 20 feet of 0.02-inch diameter factory slotted well screen, situated from approximately 5 to 25 feet bgs. A filter pack of Lonestar™ #3 sand was placed in the annular space around the well from the bottom of the casing to approximately one foot above the top of the well screen. Prior to placing the well seal material, a surge block was used to "seat" the filter pack around the well screen. Approximately one foot of bentonite was placed

on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space around the well casing was backfilled with neat cement up to surface grade. A traffic rated vault box was placed over the well, and a watertight locking cap was placed on the top of the well casing. Well construction details and DWR well completion reports for wells EX-1 through EX-4 are included in Appendix B.

Well Development and Sampling

Stratus developed wells EX-1 through EX-4 on October 17, 2005, by surging and bailing with a plastic bailer. Approximately two well casing volumes were removed from each well during well development. Each well bailed dry during development activities. Stratus returned to the site on October 24, 2005 to sample newly installed wells EX-1 through EX-4. The fourth quarter 2005 groundwater sampling event was also completed at this time. Prior to sampling, each well casing was purged. Groundwater samples were subsequently collected using a new, clean disposable bailer. Groundwater was transferred to appropriately preserved glass vials (voas), stored in an ice-chilled cooler, and identified on a chain-of-custody form. Field data sheets documenting the well development and sampling events are presented in Appendix C. Wells EX-1 through EX-4 will be incorporated into the quarterly monitoring program for the site.

Surveying

Morrow Surveying, of West Sacramento, California, surveyed the elevations and locations (latitude, longitude, state plane coordinates) of all monitoring wells and remediation wells in November 2005. Well elevations were established to the nearest 0.01 vertical feet and tied to the previous survey completed at the site. A copy of the surveyor's map is presented in Appendix D. Well survey data was forwarded to the California State Water Resources Control Board for inclusion in the Geotracker database.

Waste Management

Drill cuttings and wastewater generated during drilling activities were placed in properly labeled, DOT-approved, 55-gallon steel drums and stored on-site pending disposal. A sample of the soil cuttings was collected and submitted for chemical analysis to determine the appropriate disposal facility. Stratus personnel transported wastewater generated during well development and sampling activities to Integrated Wastestream Management (IWM). IWM transported all soil and wastewater to licensed facilities for disposal.

ANALYTICAL METHODS

Soil and groundwater samples were forwarded to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. The samples were analyzed for TPHG using USEPA Method SW8015B DHS/LUFT Manual, and for BTEX, MTBE, TBA, ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), and 1,2-dichloroethane (1,2-DCA) using USEPA Method SW8260B. Groundwater samples were additionally analyzed for ethanol, methanol, and 1,2-dibromoethane (EDB) using USEPA Method SW8260B. Soil analytical results are presented in Table 2, and groundwater analytical results are presented in Table 3. Certified analytical reports with chain-of-custody records are presented in Appendix E.

FINDINGS

Site Geology and Hydrogeology

The geology beneath the site generally consists of fine grained soil situated above sedimentary bedrock. Clay, silty clay, and clayey sand soils were encountered during this investigation and previous site assessment activities. Weathered sedimentary bedrock (logged as sandstone, siltstone, and mudstone) have been observed at the site at depths ranging from approximately 17 to 24 feet bgs.

Depth to groundwater has been reported in the monitoring wells at depths ranging from approximately 7 to 21 feet bgs since groundwater monitoring was initiated in 1995. Groundwater was measured between 13.34 and 15.4 feet bgs in wells EX-1 through EX-4 on October 17, 2005.

Analytical Results

Soil Analytical Results

Petroleum hydrocarbons were reported in the soil samples collected from borings EX-1, EX-2, and EX-4. The highest concentrations of TPHG (510 milligrams per kilogram [mg/Kg]) and BTEX constituents (benzene at 1.1 mg/Kg) were reported for the sample collected from boring EX-4 at 16.5 feet bgs. TPHG was reported at concentrations ranging from 23 mg/Kg to 120 mg/Kg for samples collected from boring EX-1 between 11 and 21 feet bgs. Petroleum hydrocarbon and fuel additive concentrations were reported below laboratory detection limits for the samples collected from well boring EX-3.

Groundwater Analytical Results

Petroleum hydrocarbons were reported in groundwater samples collected from each of the newly installed extraction wells. The highest concentrations of TPHG (42,000 micrograms per liter [$\mu\text{g/L}$]), benzene (13,000 $\mu\text{g/L}$), and MTBE (410 $\mu\text{g/L}$) were reported in the sample collected from EX-2. TPHG and benzene were also reported in the samples collected from wells EX-1, EX-3, and EX-4 at concentrations ranging from 1,900 $\mu\text{g/L}$ to 20,000 $\mu\text{g/L}$, and 140 $\mu\text{g/L}$ to 390 $\mu\text{g/L}$, respectively.

SUMMARY

The following summarizes the findings of this investigation:

- Four extraction wells were installed on-site for use in future DPE events. These wells will be incorporated into the quarterly monitoring and sampling program at the site and will be used for remediation.
- Relatively high concentrations of petroleum hydrocarbons were reported in soil samples collected from borings EX-1 and EX-4. The highest concentrations of TPHG (510 mg/Kg) and BTEX constituents (benzene at 1.1 mg/Kg) were reported for the sample collected from boring EX-4 at 16.5 feet bgs.
- Wells EX-1 through EX-4 are impacted with dissolved petroleum hydrocarbons. The highest concentrations of TPHG (42,000 $\mu\text{g/L}$), benzene (13,000 $\mu\text{g/L}$), and MTBE (410 $\mu\text{g/L}$) were reported in the sample collected from EX-2.

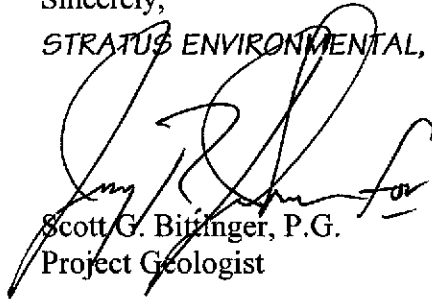
LIMITATIONS

This report was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and inexact art. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This report is solely for the use and information of our client unless otherwise noted.

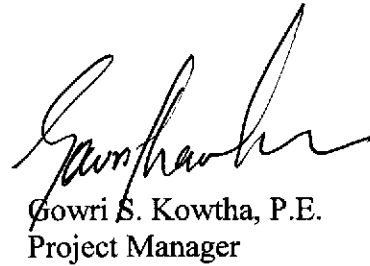
If you have any questions or comments concerning this report, please contact Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.
Project Geologist



Gowri S. Kowtha, P.E.
Project Manager

Attachments:	Table 1	Drilling and Well Construction Summary
	Table 2	Soil Analytical Results
	Table 3	Groundwater Analytical Results
	Figure 1	Site Location Map
	Figure 2	Site Plan
	Appendix A	Field Practices and Procedures
	Appendix B	Boring Logs, Well Details, DWR Well Completion Forms, and Drilling Permit
	Appendix C	Field Data Sheets
	Appendix D	Surveyor's Map
	Appendix E	Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Charles Miller, USA Gasoline Corporation
Mr. Ken Phares, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

TABLE 1
DRILLING AND WELL CONSTRUCTION SUMMARY

Former USA Station #57
10700 MacArthur Boulevard
Oakland, California

ID	Date	Boring Dia. (inches)	Boring Depth (feet bgs)	Casing Diameter (inches)	Casing Depth (feet bgs)	Slot Size (inches)	Screen Interval (feet bgs)
Monitoring Wells							
S-1	2/12/87	8	40	3	40	0.02	20 to 40
S-2	2/12/87	8	40	3	40	0.02	20 to 40
MW-3	2/28/95	10	44	4	44	0.02	24 to 44
MW-4	11/20/95	10	40.5	4	40.5	0.02	10 to 40.5
MW-5	11/20/95	10	41	4	40	0.02	10 to 40
MW-6	11/20/95	10	40.5	4	40.5	0.02	10 to 40.5
MW-7	11/21/95	10	41	4	40	0.02	10 to 40
MW-8	11/21/95	10	35.5	4	35	0.02	10 to 35
Extraction Wells							
EX-1	10/6/05	10	25	4	25	0.02	5 to 25
EX-2	10/7/05	10	25	4	25	0.02	5 to 25
EX-3	10/6/05	10	25	4	25	0.02	5 to 25
EX-4	10/6/05	10	25	4	25	0.02	5 to 25
Soil Borings							
A	2/12/87	8	20				
B	2/12/87	6	20				
C	2/12/87	6	20				
D	2/12/87	6	20				
B-1	2/28/95	8	46				
B-2	3/1/95	8	31				
B-3	3/1/95	8	21				
B-4	3/2/95	8	12				
B-5	3/2/95	8	12				
B-6	3/2/95	8	12				
B-7	3/2/95	8	12				
B-8	3/2/95	8	12				

TABLE 2
SOIL ANALYTICAL RESULTS
FORMER USA GASOLINE STATION 57
10700 MACARTHUR BOULEVARD, OAKLAND, CA

Sample ID	Sample Depth (feet bgs)	Date Collected	TPHG (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)
<u>Boring EX-1</u>													
EX-1-11	11	10/6/05	23	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-1-16	16	10/6/05	100	<0.020*	<0.020*	<0.020*	0.034	<0.020*	<2.0*	<0.040*	<0.040*	<0.040*	<0.040*
EX-1-21	21	10/6/05	120	0.018	<0.010*	0.34	0.79	0.033	<1.0*	<0.020	<0.020	<0.020	<0.020
<u>Boring EX-2</u>													
EX-2-11	11	10/7/05	6	<0.005	<0.005	<0.005	0.0113	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
<u>Boring EX-3</u>													
EX-3-11	11	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-3-15.5	15.5	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-3-20.5	20.5	10/6/05	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
<u>Boring EX-4</u>													
EX-4-6	6	10/6/05	1.4	0.020	<0.005	0.013	<0.005	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-11	11	10/6/05	26	0.064	0.015	0.067	0.56	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-16.5	16.5	10/6/05	510	1.1	3.6	2.2	43	<0.20*	<20*	<0.40*	<0.40*	<0.40*	<0.40*
EX-4-21	21	10/6/05	<1.0	0.068	<0.005	0.013	0.029	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020
EX-4-25.5	25.5	10/6/05	18	<0.005	<0.005	0.008	0.178	<0.005	<0.50	<0.020	<0.020	<0.020	<0.020

**TABLE 2
SOIL ANALYTICAL RESULTS
FORMER USA GASOLINE STATION 57
10700 MACARTHUR BOULEVARD, OAKLAND, CA**

Sample ID	Sample Depth (feet bgs)	Date Collected	TPHG (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)
<u>Explanation</u>				<u>Analytical Methods</u>									
TPHG = Total petroleum hydrocarbons as gasoline				TPHG analyzed using EPA Method SW8015B/DHS LUFT Manual									
BTEX = Benzene, toluene, ethylbenzene, and xylenes				BTEX, MTBE, TBA, DIPE, ETBE, TAME, and 1,2-DCA analyzed using EPA Method SW8260B									
MTBE = Methyl tertiary butyl ether													
TBA=Tertiary butyl alcohol				<u>Analytical Laboratory</u>									
DIPE =Di-isopropyl ether				Alpha Analytical, Inc. (ELAP #2019)									
ETBE = Ethyl tertiary butyl ether													
TAME = Tertiary amyl methyl ether													
1,2-DCA=1,2-Dichloroethane													
bgs = below ground surface													
mg/Kg = milligrams per kilogram													
* = Reporting limits increased due to high concentrations of target analytes													

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
FORMER USA GASOLINE STATION 57
10700 MACARTHUR BOULEVARD, OAKLAND, CA

Sample ID	Date Collected	TPHG (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Methanol (µg/L)
EX-1	10/24/05	5,000	140	8.4	20	195	360	120	<1.0	<4.0*	<1.0	<1.0	<1.0	<5,000	<5,000
EX-2	10/24/05	42,000	13,000	1,300	1,300	2,580	410	<2,000*	<200*	<800*	<200*	<200*	<200*	<5,000	<5,000
EX-3	10/24/05	20,000	220	21	660	3,110	<10*	<200*	<20*	<80*	<20*	<20*	<20*	<5,000	<5,000
EX-4	10/24/05	1,900	390	69	8.8	90	11	51	<5.0*	<20*	<5.0*	<5.0*	<5.0*	<5,000	<5,000

Explanation

TPHG = Total petroleum hydrocarbons as gasoline
 BTEX = Benzene, toluene, ethylbenzene, and xylenes
 MTBE = Methyl tertiary butyl ether
 TBA = Tertiary butyl alcohol
 1,2-DCA = 1,2-Dichloroethane
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 EDB = 1,2-Dibromoethane
 µg/L = micrograms per liter
 * = Reporting limits increased due to high concentrations of target analytes

Analytical Methods

TPHG analyzed using EPA Method SW8015B/DHS LUFT Manual
 BTEX, MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, ethanol, and methanol analyzed using EPA Method SW8260B

Analytical Laboratory

Alpha Analytical, Inc. (ELAP #2019)



GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION



SCALE 1:24,000

USA 87 Site Location Map.dwg
Dec 01, 2005
JMP
USA 87 Quantity

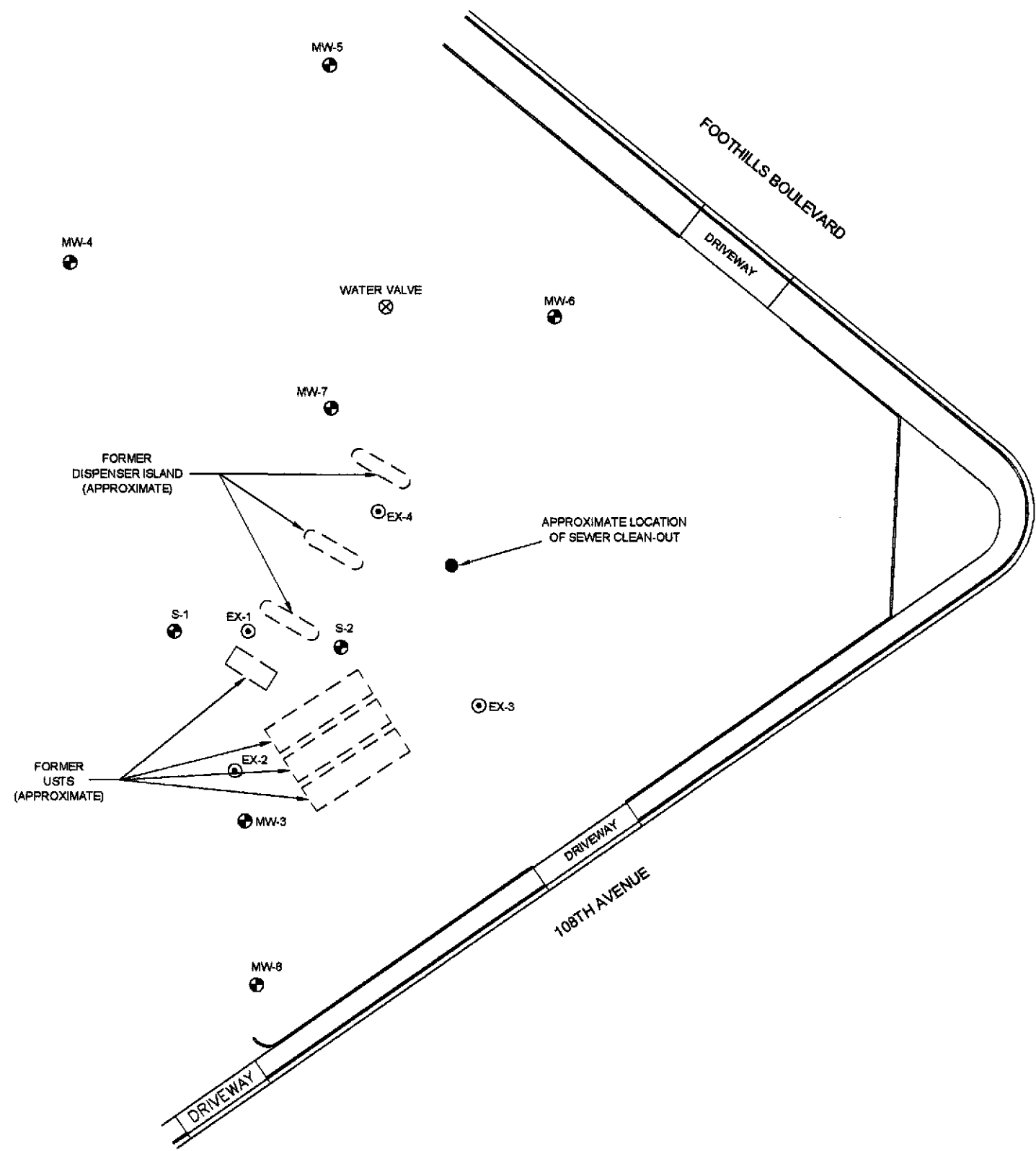
STRATUS
 ENVIRONMENTAL, INC.

FORMER USA SERVICE STATION NO. 57
 10700 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
 SITE LOCATION MAP

FIGURE
1
 PROJECT NO.
 2007-0057-01



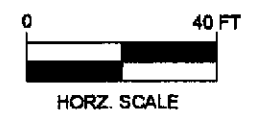
- LEGEND
- MW-1 MONITORING WELL LOCATION
 - ⊗ WATER VALVE LOCATION
 - ⊙ EX-1 EXTRACTION WELL LOCATION



USA 07 57a Plan.dwg
 REV
 Dec 30, 2005
 JWP
 USA 07

NOTE: SITE MAP REVISED ON 11/29/05 BASED ON SURVEY BY MORROW SURVEYING

STRATUS
ENVIRONMENTAL, INC.



FORMER USA STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
2
PROJECT NO.
2007-0057-01

APPENDIX A

FIELD PRACTICES AND PROCEDURES

FIELD PRACTICES AND PROCEDURES

General procedures used by Stratus in site assessments for drilling exploratory borings, collecting samples, and installing monitoring wells are described herein. These general procedures are used to provide consistent and reproducible results; however, some procedure may be modified based on site conditions. A California Professional Geologist or Civil Engineer supervises the following procedures.

PRE-FIELD WORK ACTIVITIES

Health and Safety Plan

Field work performed by Stratus at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

Locating Underground Utilities

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc., is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating company contacts the owners of the various utilities in the vicinity of the site to mark the locations of their underground utilities. Any invasive work is preceded by hand augering to a minimum depth of five feet below surface grade to avoid contact with underground utilities.

FIELD METHODS AND PROCEDURES

Exploratory Soil Borings

Soil borings will be drilled using a truck-mounted, hollow stem auger or air rotary casing hammer drill rig. Soil samples for logging will be obtained from auger-return materials and by advancing a modified California split-spoon sampler equipped with brass or stainless steel liners into undisturbed soil beyond the tip of the auger. Soils will be logged by a geologist according to the Unified Soil Classification System and standard geological techniques. Drill cuttings will be screened using a portable photoionization detector (PID) or a flame ionization detector (FID). Exploratory soil borings not used for monitoring well installation will be backfilled to the surface with a bentonite-cement slurry pumped into the boring through a tremie pipe.

Soil sampling equipment will be cleaned with a detergent water solution, rinsed with clean water, and equipped with clean liners between sampling intervals. Augers and

samplers will be steam cleaned between each boring to reduce the possibility of cross contamination. Steam cleaning effluent will be contained in 55-gallon drums and temporarily stored on site. The disposal of the effluent will be the responsibility of the client.

Soil Sample Collection

During hollow stem auger drilling, soil samples will be collected in cleaned brass, two by six inch tubes. The tubes will be set in an 18-inch-long split-barrel sampler. The sampler will be conveyed to bottom of the borehole attached to a wire-line hammer device on the drill rig. When possible, the split-barrel sampler will be driven its entire length, either hydraulically or by repeated pounding a 140-pound hammer using a 30-inch drop. The number of drops (blows) used to drive the sampler will be recorded on the boring log. The sampler will be extracted from the borehole, and the tubes containing the soil samples will be removed. Upon removal, the ends of the lowermost tube will be sealed with Teflon sheets and plastic caps. Soil samples for chemical analysis will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation. Soil samples are not normally collected during air rotary drilling.

Soil Classification

Soil samples collected in brass tubes, or drill cuttings evacuated from the borehole during air rotary drilling, will be logged on site by a geologist using the Unified Soil Classification System. Representative portions of the brass sleeve samples will be retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata and pertinent information regarding the method of maintaining and advancing the borehole will be prepared.

Soil Sample Screening

Soil samples selected for chemical analysis will be determined from a head-space analysis using a PID or an FID. The soil will be placed in a Ziploc[®] bag, sealed, and allowed to reach ambient temperature, at which time the PID probe will be inserted into the Ziploc[®] bag. The total volatile hydrocarbons present are detected by the PID and reported in parts per million by volume (ppmv). The PID will be calibrated to an isobutylene standard.

At least two soil samples retained from each soil boring will be submitted for chemical analysis unless otherwise specified in the scope of work. Soil samples selected for analysis typically represent the highest PID reading recorded for each soil boring and the sample just above first-encountered groundwater. Additional soil samples will be

submitted based on the findings at each individual borehole and the project specific data needs.

Stockpiled Drill Cuttings and Soil Sampling

Drill cuttings generated during the drilling procedure will be stockpiled on site, placed in 55-gallon steel drums, or containerized in covered roll-off steel containers. Stockpiled drill cuttings will be placed on and covered with plastic sheeting. A sample of the soil cuttings will be submitted for chemical analysis to determine an appropriate disposal method. Stratus Environmental will recommend an appropriate facility to accept the drill cuttings based on the analytical results. The client will be responsible for disposal of the drill cuttings.

Prior to collecting soil samples, Stratus personnel will calculate the approximate volume of soil in the stockpile. The stockpile will then be divided into sections, if warranted, containing the predetermined volume sampling interval. Four soil samples will be collected from the stockpile and composited into one sample by the laboratory prior to analysis. The soil samples will be collected in cleaned brass, two by six inch tubes using a hand driven sampling device. To reduce the potential for cross-contamination between samples, the sampler will be cleaned between each sampling event. Upon recovery, the sample container will be sealed at each end with Teflon sheeting and plastic caps to minimize the potential of volatilization and cross-contamination prior to chemical analysis. The soil sample will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

Direct Push Technology, Water Sampling

A well known example of direct push technology for water sampling is the Hydropunch[®]. For the purpose of this field method the term hydropunch will be used instead of direct push technology for water sampling.

The hydropunch is typically used with a drill rig. A boring is drilled with hollow stem-augers to just above the sampling zone. In some soil conditions the drill rig can push directly from the surface to the sampling interval. The hydropunch is conveyed to the bottom of the boring using drill rods. Once on bottom the hydropunch is driven a maximum of five feet. The tool is then opened by lifting up the drill rod no more than four feet. Once the tool is opened, water enters and a sample can be collected with a bailer or tubing utilizing a peristaltic pump. Soil particles larger than silt are prevented from entering the tool by a screen within the tool. The water sample is collected, labeled, and handled according to the Quality Assurance Plan.

Well Installation Procedures

Groundwater monitoring, soil vapor extraction, groundwater extraction, air sparging, and ozone injection wells, of variable diameters, are normally constructed during

environmental assessment and remediation projects. Wells are normally constructed using Schedule 40 polyvinyl chloride (PVC) casing. The borehole diameter will be a minimum of four inches larger than the outside diameter of the casing.

Wells installed for environmental assessment and remediation projects are typically cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.01, 0.02, or 0.03-inch-wide by 1.5-inch-long slots, with 42 slots per foot. A threaded or slip PVC cap is secured to the bottom of the casing. The slip cap can be secured with stainless steel screws or friction; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to completion.

A filter pack of graded sand will be placed in the annular space between the PVC casing and the borehole wall. Sand will be added to the borehole through the hollow stem of the augers to provide a uniform filter pack around the casing and to stabilize the borehole. The sand pack will be placed to a maximum of 2 feet above the screens, followed by a minimum 1-foot seal consisting of bentonite pellets.

Cement grout containing 5 percent bentonite or concrete will be placed above the bentonite seal to the ground surface. A concrete traffic-rated vault box will be installed over the monitoring well(s). A watertight locking cap will be installed over the top of the well casing. Reference elevations for each monitoring well will be surveyed when more than two wells will be located on site. Well elevations will be surveyed by a California licensed surveyor to the nearest 0.01-foot relative to mean sea level (MSL). Horizontal coordinates of the wells will be measured at the same time. Horizontal coordinates are normally measured in California State Plane Coordinates. Latitudes and longitudes are normally calculated for each well, per California Assembly Bill 2886 (Geotracker) requirements.

Exploratory boring logs and well construction details will be prepared for the final written report.

APPENDIX B

**BORING LOGS, WELL DETAILS,
DWR WELL COMPLETION FORMS,
AND DRILLING PERMITS**

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO.200 SIEVE	GRAVEL MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND MORE THAN 50% OF COARSE FRACTION PASSES NO.4 SIEVE	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS MORE THAN 50% PASSES NO.200 SIEVE	SILT AND CLAY LIQUID LIMIT LESS THAN 50	INORGANIC	ML	SILT
			CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
	SILT AND CLAY LIQUID LIMIT 50 OR MORE	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

Ref: Unified Soil Classification System; from American Society for Testing and Materials, 1985

SOIL BORING LOG

Boring No. EX-1

Sheet 1 of 2

Client	<u>Former USA 57</u>	Date	<u>10/6/2005</u>
Address	<u>10700 MacArthur Blvd</u>	Drilling Company	<u>Woodward Drilling Co.</u>
	<u>Oakland, CA</u>	Drilling Foreman	<u>Amador</u>
Project No.	<u>2007-0057-01</u>	Method	<u>HSA</u>
Logged By:	<u>Justin Crose</u>	hole diam.:	<u>10"</u>
Well Pack	<u>sand: 4.5 ft. to 25 ft.</u>	Well Construction	<u>casing: PVC</u>
	<u>bent.: 3.5 ft. to 4.5 ft.</u>		<u>screen: 5 to 25 ft.</u>
	<u>grout: 0.5 ft. to 3.5 ft.</u>		<u>casing diam.: 4"</u>
			<u>screen slot: 0.02"</u>

Sample Type	Sample No.	Blow Count	Sample		Well Constr. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Concrete		
						2	CL CLAY, olive brown 2.5Y 4/3, 10-15% fine sand, moist	0	
						3			
						4			
						5			
S	EX-1-6	3	16:13	60		6	SC CLAYEY SAND (5'-5.2'), brown 10YR 4/3, 75% fine sand, 25% clayey fines, moist	0	
		10				7	CL CLAY, dark grayish brown 2.5Y 4/3, 5-10% fine to medium sand, trace black MnO2, moist, stiff		
						8			
						9			
						10			
S	EX-1-11	7	16:28	70		11	CL CLAY, olive brown 2.5Y to dark grayish brown 2.5Y, moist	39	
		10				12			
						13			
						14			
						15			
S	EX-1-16	4	16:38	60		16	CL CLAY, dark grayish brown 2.5Y 4/2 with spots of greenish gray GLEY 1 & dark yellowish brown 10YR 4/6, 5% fine to coarse sand, moist, very stiff	>1000	
		20				17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-1

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobif B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construc t.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-1-21	7 19 22	16:56	90		2 1	CL	CLAY, light olive brown 2.5Y 5/6 to olive yellow 2.5Y, 10-15% fine to CLAY, dark grayish brown to very dark grayish brown 2.5Y with spots of greenish gray GLEY 1 & orange FeO2 stains, trace gravel, moist, hard	>1000
						2 2			
						2 3			
						2 4			
						2 5			
		50(4)	17:18	25		2 6	CL	CLAY to Mudstone, clay - dark yellowish brown 10YR to brownish yellow 10YR, mudstone - brown 10YR, 5-15% fine sand to fine gravel 4/3	527
						2 7			
						2 8			
						2 9			
						3 0			
						3 1			
						3 2			
						3 3			
						3 4			
						3 5			
						3 6			
						3 7			
						3 8			
						3 9			
						4 0			



SOIL BORING LOG

Boring No. EX-2

Sheet 1 of 2

Client	Former USA 57	Date	10/7/2005
Address	10700 MacArthur Blvd Oakland, CA	Drilling Company	Woodward Drilling Co. rig type: Mobil B-61
Project No.	2007-0057-01	Drilling Foreman	Amador
Logged By:	Justin Crose	Method	HSA hole diam.: 10"
Well Pack	sand: 4.5 ft. to 25 ft. bent: 3.5 ft. to 4.5 ft. grout: 1 ft. to 3.5 ft.	Well Construction	casing: PVC screen: 5 to 25 ft. casing diam.: 4" screen slot: 0.02"

Sample Type	Sample No.	Blow Count	Sample		Well Constru ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Concrete		
						2	CLAY, yellowish brown 10YR 5/4 to brown 10YR 4/3, trace black MnO2, moist	7	
						3			
						4			
						5			
S	EX-2-6	4 8 22	8:38	70		6	CLAY, yellowish brown 10YR 5/4 to brown 10YR 4/3, trace black MnO2, trace caliche, moist, hard	0	
						7			
						8			
						9			
						10			
S	EX-2-11	10 12 28	8:45	80		11	CLAY, very dark brown 7.5YR to olive gray 5Y 5/2 with orange FeO2 stains, trace gravel, moist, hard	0	
						12			
						13			
						14			
						15			
		50(3)	8:57	20		16	CLAY, light olive brown 2.5Y 5/6, trace caliche, 5-10% fine to coarse sand, trace gravel, dry, hard	466	
						17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs

STRATUS
ENVIRONMENTAL, INC.



SOIL BORING LOG

Boring No. EX-2

Sheet 2 of 2

Client Former USA 57 Date 10/7/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construc t.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
		50(5)	9:20	25		2 1	CL	CLAY, light olive brown 2.5Y 5/6 to olive yellow 2.5Y, 10-15% fine to medium sand, trace coarse sand and fine gravel, intermittent cementation, dry, hard	66
					2 2				
					2 3				
					2 4				
					2 5				
		50(6)	9:40	30		2 6	CL	CLAY to Mudstone, mudstone - white CaCO3 cementing, clay - olive gray 5Y 5/2 & very dark brown 7.5YR, dry to moist	45
					2 7				
					2 8				
					2 9				
					3 0				
					3 1				
					3 2				
					3 3				
					3 4				
					3 5				
					3 6				
					3 7				
					3 8				
					3 9				
					4 0				



SOIL BORING LOG

Boring No. EX-3

Sheet 1 of 2

Client	Former USA 57	Date	10/6/2005
Address	10700 MacArthur Blvd Oakland, CA	Drilling Company	Woodward Drilling Co. rig type: Mobil B-61
Project No.	2007-0057-01	Drilling Foreman	Amador
Logged By:	Justin Crose	Method	HSA hole diam.: 10"
Well Pack	sand: 4.5 ft. to 25 ft. bent.: 3.5 ft. to 4.5 ft. grout: 0.5 ft. to 3.5 ft.	Well Construction	casing: PVC screen: 5 to 25 ft. casing diam.: 4" screen slot: 0.02"

Sample		Blow Count	Sample		Well Construc ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	CL	Asphalt CLAY, dark yellowish brown 10YR, trace black MnO2, 5% fine sand, moist	0
						2			
						3			
						4			
						5			
S	EX-3-6	4 4 12	12:46	80		6	CL	CLAY, dark yellowish brown 10YR 4/4, trace black MnO2 & caliche, trace fine to coarse sand, moist, very stiff	0
						7			
						8			
						9			
						10			
S	EX-3-11	8 12 17	12:59	70		11	CL	CLAY, olive gray 5Y 4/2 to dark grayish brown 2.5Y 4/2 with orange FeO2 stains, trace fine to coarse sand, very stiff	0
						12			
						13			
						14			
						15			
S	EX-3-15.5	12 50(6)	13:27	40		16	CL	CLAY, greenish gray to dark yellowish brown 10YR to dark grayish brown 2.5Y with orange FeO2 stains, trace fine sand, dry to moist, hard	45
						17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs

STRATUS
ENVIRONMENTAL, INC.



SOIL BORING LOG

Boring No. EX-3

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-3-20.5	50(6)	13:51	40		2 1	CL	CLAY, brown 10YR 4/3, 5-15% fine to coarse sand, weakly cemented, dry, hard	
						2 2			
						2 3			
						2 4			
						2 5			
S	EX-3-25.5	50(6)	14:32	35		2 6	CL	CLAY to Mudstone, clay - dark yellowish brown 10YR 4/6 to brownish yellow 10YR 6/8, mudstone - brown 4/3, dry, hard	
						2 7			
						2 8			
						2 9			
						3 0			
						3 1			
						3 2			
						3 3			
						3 4			
						3 5			
						3 6			
						3 7			
						3 8			
						3 9			
						4 0			



SOIL BORING LOG

Boring No. EX-4

Sheet 1 of 2

Client	Former USA 57	Date	10/6/2005
Address	10700 MacArthur Blvd Oakland, CA	Drilling Company	Woodward Drilling Co. rig type: Mobil B-61
Project No.	2007-0057-01	Drilling Foreman	Amador
Logged By:	Justin Crose	Method	HSA hole diam.: 10"
Well Pack	sand: 4.5 ft. to 25 ft. bent.: 3.5 ft. to 4.5 ft. grout: 0.5 ft. to 3.5 ft.	Well Construction	casing: PVC screen: 5 to 25 ft. casing diam.: 4" screen slot: 0.02"

Sample		Blow Count	Sample		Well Constr. ct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	Drill on dirt		
						2	Top Soil, dry		
						3			
						4	SM SILTY SAND, 80-85% fine sand, 15-20% silt, moist	231	
						5	SW SAND (3.7' to 5'), 95% fine to coarse sand, trace fine gravel, 5% fines, moist	237	
S	EX-4-6	9 12 18	9:06	80		6	CL CLAY, dark yellowish brown 10YR 4/4, trace black MnO2, trace fine sand to fine gravel, moist, very stiff	231	
						7			
						8			
						9			
						10			
S	EX-4-11	8 8 10	9:18	80		11	CL CLAY, dark grayish brown 2.5Y 4/2, moist, very stiff	>1000	
						12			
						13			
						14			
						15			
S	EX-4-16.5	5 15 20	9:48	100		16	CL CLAY, dark grayish brown 2.5Y 4/2, moist, hard	>1000	
						17			
						18			
						19			
						20			

Comments: Drilled to 25 feet bgs



SOIL BORING LOG

Boring No. EX-4

Sheet 2 of 2

Client Former USA 57 Date 10/6/2005
 Address 10700 MacArthur Blvd Drilling Company Woodward Drilling Co. rig type: Mobil B-61
Oakland, CA Drilling Foreman Amador
 Project No. 2007-0057-01 Method HSA hole diam.: 10"
 Logged By: Justin Crose

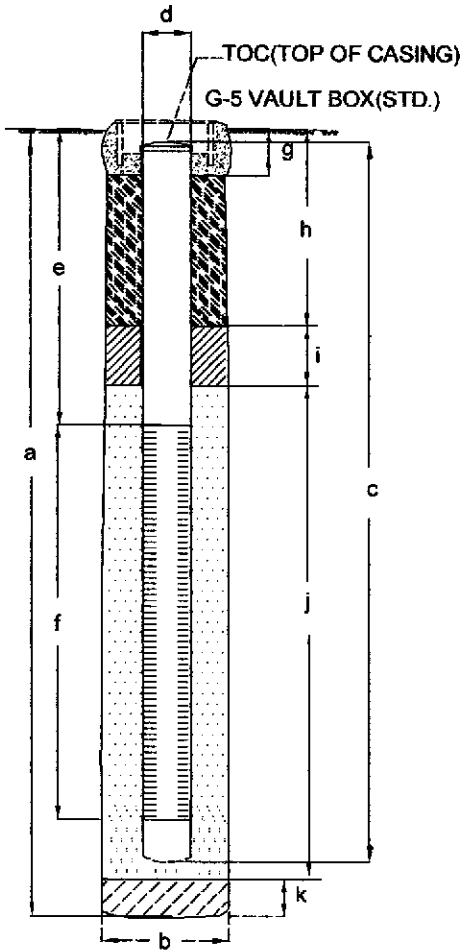
Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-4-21	19 50(6)	10:06	70		2 1 2 2 2 3 2 4 2 5	CL CLAY WITH GRAVEL, dark yellowish brown 10YR 4/4 to olive gray 5Y 4/2. 5-25% gravel (lower % towards top of sample), orange FeO2 stains, damp to moist	450	
S	EX-4-25.5	50(6)	10:25	40		2 6 2 7 2 8 2 9 3 0 3 1 3 2 3 3 3 4 3 5 3 6 3 7 3 8 3 9 4 0	ML SILT, light olive brown 2.5Y 5/4 to dark yellowish brown 10YR, weakly cemented, dry, hard	91	



WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0944

BORING/WELL NO.: EX-1
 TOP OF CASING ELEV.: 77.72'
 GROUND SURFACE ELEV.: 78.04'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | | | |
|--|-----------|--|-------------|
| | BENTONITE | | CONCRETE |
| | CEMENT | | SAND |
| | | | PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

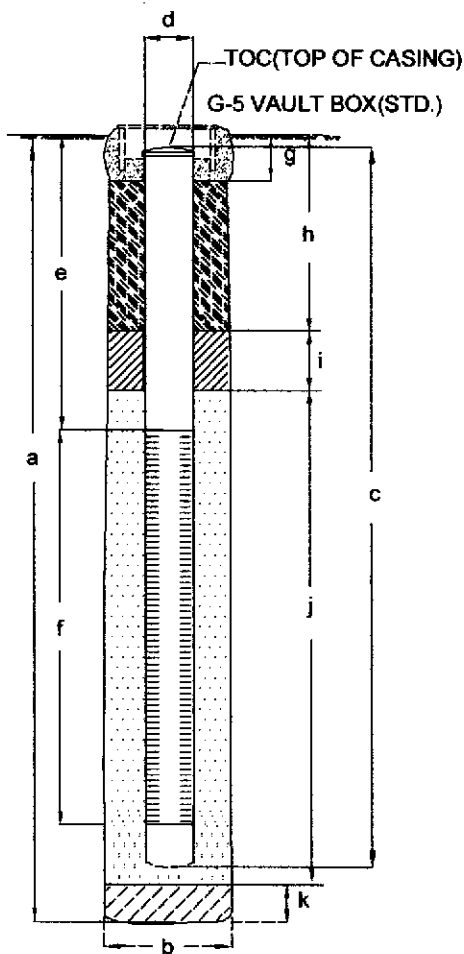
PREPARED BY _____ DATE _____






REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0945

BORING/WELL NO.: EX-2
 TOP OF CASING ELEV.: 76.96'
 GROUND SURFACE ELEV.: 77.24'
 DATUM: NAD 83
 INSTALLATION DATE: October 7, 2005



- | | | | |
|---|-----------|---|-------------|
|  | BENTONITE |  | CONCRETE |
|  | CEMENT |  | SAND |
| | |  | PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

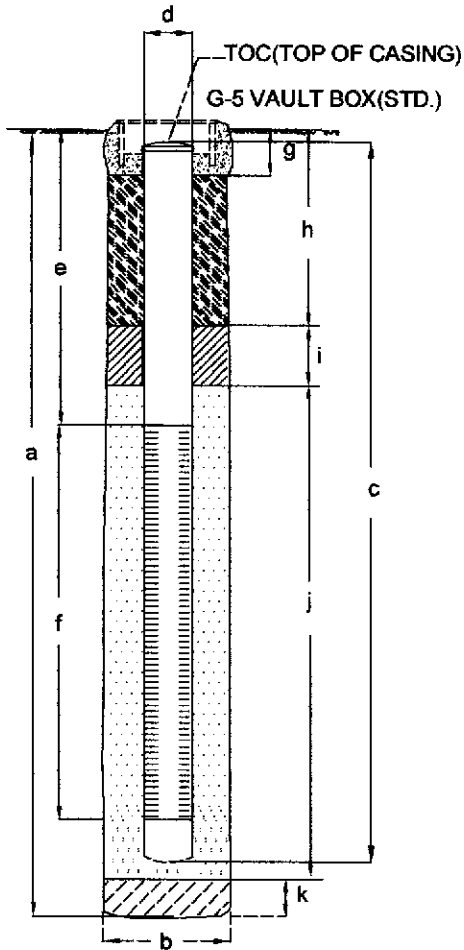
PREPARED BY _____ DATE _____






REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0946

BORING/WELL NO.: EX-3
 TOP OF CASING ELEV.: 78.87'
 GROUND SURFACE ELEV.: 79.52'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | |
|---|---|
|  BENTONITE |  CONCRETE |
|  CEMENT |  SAND |
| |  PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

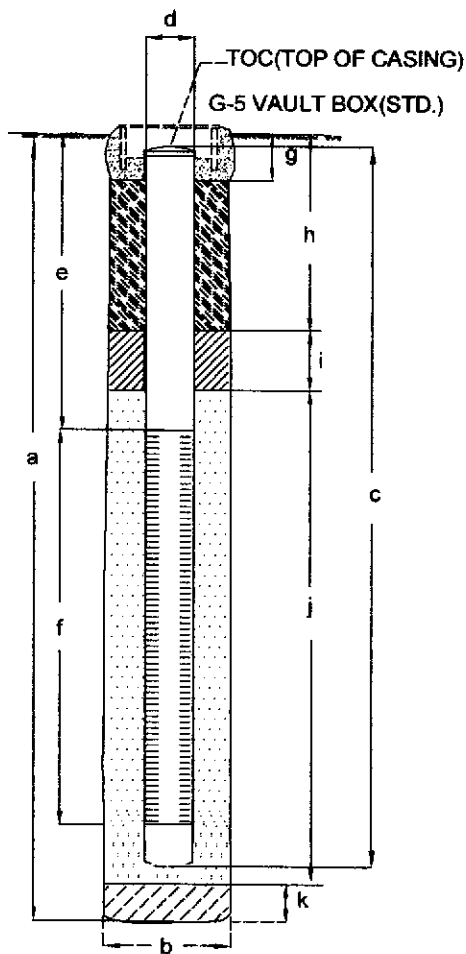
PREPARED BY _____ DATE _____






REVIEWED BY _____ DATE _____

WELL DETAILS

PROJECT NUMBER: 2007-0057-01
 PROJECT NAME: USA 57
 LOCATION: 10700 MacArthur Blvd, Oakland, California
 WELL PERMIT NO.: W2005-0947

BORING/WELL NO.: EX-4
 TOP OF CASING ELEV.: 77.96'
 GROUND SURFACE ELEV.: 78.27'
 DATUM: NAD 83
 INSTALLATION DATE: October 6, 2005



- | | |
|---|---|
|  BENTONITE |  CONCRETE |
|  CEMENT |  SAND |
| |  PERFORATION |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 25 ft.
 b. DIAMETER 10 in.
 DRILLING METHOD Hollow stem auger

WELL CONSTRUCTION

c. TOTAL CASING LENGTH 25 ft.
 MATERIAL Schedule 40 PVC
 d. DIAMETER 4 in.
 e. DEPTH TO TOP PERFORATIONS 5 ft.
 f. PERFORATED
 INTERVAL FROM 5 TO 25 ft.
 PERFORATION TYPE Slotted Screen
 PERFORATION SIZE 0.02 in.
 g. SURFACE SEAL 0 to 1.0 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 1.0 to 3.5 ft.
 BACKFILL MATERIAL Neat Cement
 i. SEAL 3.5 to 4.5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 4.5 to 25 ft.
 FILTER PACK MATERIAL #3 Sand
 k. BOTTOM SEAL _____
 SEAL MATERIAL N/A

PREPARED BY _____ DATE _____

REVIEWED BY _____ DATE _____

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

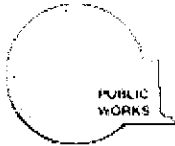
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CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/22/2005 **By** jamesy
Permits Issued: W2005-0944 to W2005-0947

Receipt Number: WR2005-2123
Permits Valid from 10/06/2005 to 10/07/2005

Application Id: 1127431065978

City of Project Site: Oakland

Site Location: 10700 MacArthur Blvd (Foothill Sq. Shopping Ctr.) Oakland, CA 94605

Project Start Date: 10/06/2005

Completion Date: 10/07/2005

Applicant: Stratus Environmental Inc - Scott G Bittinger
3330 Cameron Pk. Dr. #550, Cameron PK, CA 95682

Phone: 530-676-2062

Property Owner: Jay-Phares Corporation
10700 MacArthur Blvd, Oakland, CA 94605

Phone: --

Client: ** same as Property Owner **

	Total Due:	\$1200.00
	Total Amount Paid:	\$1200.00
Paid By: CHECK		PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells

Driller: Woodward Drilling Co. - Lic #: 710079 - Method: auger

Work Total: \$1200.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2005-0944	09/22/2005	01/04/2006	EX1	10.00 in.	4.00 in.	5.00 ft	25.00 ft
W2005-0945	09/22/2005	01/04/2006	EX2	10.00 in.	4.00 in.	5.00 ft	25.00 ft
W2005-0946	09/22/2005	01/04/2006	EX3	10.00 in.	4.00 in.	5.00 ft	25.00 ft
W2005-0947	09/22/2005	01/04/2006	EX4	10.00 in.	4.00 in.	5.00 ft	25.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Prior to any drilling activities shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or to the City and follow all City or County Ordinances No work shall begin until all the permits and requirements have been approved or obtained.
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter

Alameda County Public Works Agency - Water Resources Well Permit

10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall contact Johnson Tang for a inspection time at 510-670-6450 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

APPENDIX C
FIELD DATA SHEETS



Site Address: 10700 MacArthur
 City: Oakland
 Sampled By: C. Wilson

ORIGINAL

Site Number: USA 57
 Project No.
 Project PM: C. Wilson
 Date Sampled: 10-17-04

Site Contact Phone No.

Development

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data	
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of Well feet	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	10 Casing Volumes (gallons)	Actual Water Purged (gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample Time	Dissolved Oxygen (mg/L)	
EX-1	0740	13.34		25	11.68	4	.65	75	20 DRY			X						
EX-2	0731	15.47		25	9.53	4	.65	61	20 DRY			X						
EX-3	0705	14.20		25	8.8	4	.65	57	20 DRY			X						
EX-4	0701	14.57		25	10.43	4	.65	67	20 DRY			X						
EX-1	20	GALLS	DRY		Very slow Recharge													
EX-2	20	GALLS	DRY)													
EX-3	20	GALLS	DRY)													
EX-4	20	GALLS	DRY)													
USE Bail To surge wells																		

(A) Casing water Column
 Depth wtr. Depth to Bottom

Multiplier Values
 2"=0.5 4"=2.0 6"=4.4



T0600101808

Global ID: T0600101808
 Site Address: 10700 Macarthur Blvd
 City: Oakland, CA
 Sampled By: Vince Zalutka

Site Number: USA57
 Project No: UJ 57
 Project PM:
 Date: 10/24/05

ORIGINAL

10/24/05

Loops - 11

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Total Depth of well feet	Casing Water Column (A)	Well Diameter (Inches)	Multiplier Value (B)	Three Casing Volumes (Gallons)	Actual Water Purged (Gallons)	No. Purge	Bailer	Pump	Other	DTW At Sample Time	Sample ID	Sample time	Dissolved Oxygen (mg/L)
MW-3	0551	14.70		42.5	27.8	4	2	56	28.5 Dry			X		37.30	MW-3	0827	1.33
MW-4	0602	10.12		39	28.88	4	2	58	58			X		32.45	MW-4	1050	4.18
MW-5	0607	14.29		34	19.71	4	2	39	10-Dry			X		14.71	MW-5	1431	N/M
MW-6	0636	4.7		17/40	0	4	2	0	Dry	X				N/m	MW-6	N/S	---
MW-7	0611	16.65		42	25.35	4	2	51	51			X		27.87	MW-7	1246	N/M
MW-8	0545	18.68		37.5	18.82	4	2	38	24-Dry			X		32.29	MW-8	0958	5.35
S-1	0558	16.53		41	24.47	3	1	24	12-Dry			X		20.03	S-1	0944	.95
S-2	0618	18.07		42	23.93	3	1	24	20-Dry			X		25.70	S-2	1420	N/m
EX-1	0609	14.37		25	10.63	4	2	21	16-Dry		X			22.25	EX-1	1104	1.15
EX-2	0555	16.00		25	9	4	2	18	14-Dry		X			23.32	EX-2	0810	2.83
EX-3	0628	14.85		25	10.15	4	2	20	15-Dry		X			22.97	EX-3	1356	N/m
EX-4	0615	14.93		25	10.07	4	2	20	15-Dry		X			22.75	EX-4	1407	N/m

(A) Casing water Column
 Depth wrt. Depth to Bottom

Multiplier Values
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

[Handwritten signature]



Site Address 10700 Macarthur Blvd
 City Oakland, CA
 Sampled By: Vince Zalutka

Site Number USA 57
 Project No U 57
 Project PM 0
 Date 10/24/05

ORIGINAL

Well ID MW-3					Well ID MW-4 1050				
purge start time 0750 Lite Odor					purge start time 1018 No Odor				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	19.9	6.66	561	28	time	20.7	7.13	510	28
time	19.7	6.71	540	28	time	21.5	7.14	486	29
time	DRY @		28.5		time	20.1	7.23	494	58
time	19.4	6.65	536	28.5	time				
purge stop time					purge stop time 1040				
Well ID MW-5 1431					Well ID MW-6				
purge start time 1312 No Odor					purge start time DRY				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	20.8	8.27	591	28	time				
time	Dry @ 10 gal				time				
time	20.6	8.13	554	10	time				
time					time				
purge stop time					purge stop time				
Well ID MW-7 1246					Well ID MW-8 0958				
Purge start time 1217 No Odor					Purge start time 0845 No Odor				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	19.5	7.41	493	28	time	19.4	6.78	605	28
time	19.7	7.45	470	25	time	19.6	7.00	560	19
time	19.2	7.48	457	51	time	Dry @ 24 gal			
time					time	19.1	6.74	532	24
purge stop time 1237					purge stop time				
Well ID S-1 0944					Well ID S-2				
purge start time 0909 No Odor					purge start time 1335 No Odor				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	19.9	7.05	503	28	time	19.4	6.88	490	28
time	19.8	6.92	517	12	time	20.0	7.03	454	12
time	Dry @		12.25		time	Dry @ 20 gal			
time	19.5	6.88	541	12	time	19.1	6.95	432	20
purge stop time					purge stop time				



Site Address 10700 Macarthur Blvd
 City Oakland, CA
 Sampled By: Vince Zalutka

Site Number USA 57
 Project No U 57
 Project PM 0
 Date 10/24/05

ORIGINAL

Well ID EX-1 1104					Well ID EX-2 0810				
purge start time <i>Bailer No Odor</i>					purge start time <i>Bailer No Odor</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	20.6	6.56	585	8	time	20.9	6.85	588	8
time	19.7	6.64	648	11	time	20.7	6.88	602	10
time	<i>Dry @ 16</i>				time	<i>DRY @ 14 gal</i>			
time	19.6	6.66	638	16	time	19.8	6.87	663	14
purge stop time					purge stop time				
Well ID EX-3 1356					Well ID EX-4 1407				
purge start time <i>Bailer No Odor</i>					purge start time <i>Bailer No Odor</i>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	19.5	7.06	676	8	time	19.9	7.27	530	8
time	19.4	7.07	675	11	time	20.0	7.37	557	10
time	<i>Dry @ 15 gal</i>				time	<i>Dry @ 15 gal</i>			
time	19.2	7.07	609	15	time	19.4	7.37	N/A	15
purge stop time					purge stop time				
Well ID 0					Well ID 0				
Purge start time					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
Well ID 0					Well ID 0				
purge start time					purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

APPENDIX D
SURVEYOR'S MAP

Well Exhibit

Prepared For:

Environmental

MW-4



S-1



EASTING	ELEV (PVC)	ELEV (BOX)
085103.9	79.66	79.68
085152.1	81.90	81.93
085124.3	77.27	77.58
085073.7	76.26	76.71
085148.9	80.78	81.44
085214.0	82.32	82.61
085149.4	79.81	80.30
085127.9	80.50	80.81
085125.1	77.72	78.04
085121.4	76.96	77.24
085192.1	78.87	79.52
085163.0	77.96	78.27

LONGITUDE

122.1482613
122.1480942
122.1481871
122.1483722
122.1481154
122.1478859
122.1481078
122.1481720
122.1481877
122.1481982
122.1479549
EX 122.1480590

ELEVATIONS:

N
STATE PLANE ZONE 3 COORDINATES
UNIVERSITY OF CALIFORNIA BAY
OBSERVATION FILES AND BASED ON
REFERENCE CENTER DATUM, REFERENCE
(1986).

AB AND SUBB.
FROM GPS OBSERVATIONS.



0 20 40 80



SCALE IN FEET

Harbor Blvd. Ste. D
Sacramento
California 95691
(916) 372-8124
arrowsurveying.com

Date: 2-10-04
Scale: 1" = 40'
Sheet 1 of 1
Revised: 11-29-05
Field Book: MW-13, 22
Dwg. No. 7502-029 JL

APPENDIX E

**CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-6009
Fax: (530) 676-6005
Date Received : 10/12/05

Job#: 2007-0057-01/ USA 57

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual
Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed	
Client ID :	TPH Purgeable	6,000	1,000 µg/Kg	10/07/05	10/13/05
EX-2-11	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	10/07/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	10/07/05	10/13/05
STR05101223-01A	Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	10/07/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	10/07/05	10/13/05
	1,2-Dichloroethane	ND	20 µg/Kg	10/07/05	10/13/05
	Benzene	ND	5.0 µg/Kg	10/07/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	10/07/05	10/13/05
	Toluene	ND	5.0 µg/Kg	10/07/05	10/13/05
	Ethylbenzene	ND	5.0 µg/Kg	10/07/05	10/13/05
	m,p-Xylene	6.0	5.0 µg/Kg	10/07/05	10/13/05
	o-Xylene	5.3	5.0 µg/Kg	10/07/05	10/13/05
Client ID :	TPH Purgeable	23,000	1,000 µg/Kg	10/06/05	10/13/05
EX-1-11	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	10/06/05	10/13/05
STR05101223-02A	Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND	20 µg/Kg	10/06/05	10/13/05
	Benzene	ND	5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	10/06/05	10/13/05
	Toluene	ND	5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	ND	5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	ND	5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	ND	5.0 µg/Kg	10/06/05	10/13/05
Client ID :	TPH Purgeable	100,000	4,000 µg/Kg	10/06/05	10/18/05
EX-1-16	Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/Kg	10/06/05	10/18/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	10/06/05	10/18/05
STR05101223-03A	Di-isopropyl Ether (DIPE)	ND	40 µg/Kg	10/06/05	10/18/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	40 µg/Kg	10/06/05	10/18/05
	1,2-Dichloroethane	ND	40 µg/Kg	10/06/05	10/18/05
	Benzene	ND	20 µg/Kg	10/06/05	10/18/05
	Tertiary Amyl Methyl Ether (TAME)	ND	40 µg/Kg	10/06/05	10/18/05
	Toluene	ND	20 µg/Kg	10/06/05	10/18/05
	Ethylbenzene	ND	20 µg/Kg	10/06/05	10/18/05
	m,p-Xylene	34	20 µg/Kg	10/06/05	10/18/05
	o-Xylene	ND	20 µg/Kg	10/06/05	10/18/05



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	TPH Purgeable	120,000		2,000 µg/Kg	10/06/05	10/13/05
EX-1-21	Tertiary Butyl Alcohol (TBA)	ND	V	1,000 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	33		10 µg/Kg	10/06/05	10/13/05
STR05101223-04A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	18		10 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	ND	V	10 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	340		10 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	790		10 µg/Kg	10/06/05	10/13/05
	o-Xylene	ND	V	10 µg/Kg	10/06/05	10/13/05
Client ID :	TPH Purgeable	ND		1,000 µg/Kg	10/06/05	10/18/05
EX-3-11	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/18/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/18/05
STR05101223-05A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/18/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/18/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/18/05
	Benzene	ND		5.0 µg/Kg	10/06/05	10/18/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/18/05
	Toluene	ND		5.0 µg/Kg	10/06/05	10/18/05
	Ethylbenzene	ND		5.0 µg/Kg	10/06/05	10/18/05
	m,p-Xylene	ND		5.0 µg/Kg	10/06/05	10/18/05
	o-Xylene	ND		5.0 µg/Kg	10/06/05	10/18/05
Client ID :	TPH Purgeable	ND		1,000 µg/Kg	10/06/05	10/13/05
EX-3-15.5	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/13/05
STR05101223-06A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	ND		5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05
Client ID :	TPH Purgeable	ND		1,000 µg/Kg	10/06/05	10/13/05
EX-3-20.5	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/13/05
STR05101223-07A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	ND		5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	TPH Purgeable	1,400		1,000 µg/Kg	10/06/05	10/13/05
EX-4-6	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/13/05
STR05101223-08A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	20		5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	13		5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	ND		5.0 µg/Kg	10/06/05	10/13/05

Client ID :	TPH Purgeable	26,000		1,000 µg/Kg	10/06/05	10/13/05
EX-4-11	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/13/05
STR05101223-09A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	64		5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	15		5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	67		5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	240		5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	320		5.0 µg/Kg	10/06/05	10/13/05

Client ID :	TPH Purgeable	510,000		40,000 µg/Kg	10/06/05	10/13/05
EX-4-16.5	Tertiary Butyl Alcohol (TBA)	ND	V	20,000 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	V	200 µg/Kg	10/06/05	10/13/05
STR05101223-10A	Di-isopropyl Ether (DIPE)	ND	V	400 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	400 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND	V	400 µg/Kg	10/06/05	10/13/05
	Benzene	1,100		200 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND	V	400 µg/Kg	10/06/05	10/13/05
	Toluene	3,600		200 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	2,200		200 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	30,000		200 µg/Kg	10/06/05	10/13/05
	o-Xylene	13,000		200 µg/Kg	10/06/05	10/13/05

Client ID :	TPH Purgeable	ND		1,000 µg/Kg	10/06/05	10/13/05
EX-4-21	Tertiary Butyl Alcohol (TBA)	ND		500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	10/06/05	10/13/05
STR05101223-11A	Di-isopropyl Ether (DIPE)	ND		20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND		20 µg/Kg	10/06/05	10/13/05
	Benzene	68		5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND		20 µg/Kg	10/06/05	10/13/05
	Toluene	ND		5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	13		5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	19		5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	10		5.0 µg/Kg	10/06/05	10/13/05



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Client ID :	TPH Purgeable	18,000	1,000 µg/Kg	10/06/05	10/13/05
EX-4-25.5	Tertiary Butyl Alcohol (TBA)	ND	500 µg/Kg	10/06/05	10/13/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	10/06/05	10/13/05
STR05101223-12A	Di-isopropyl Ether (DIPE)	ND	20 µg/Kg	10/06/05	10/13/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg	10/06/05	10/13/05
	1,2-Dichloroethane	ND	20 µg/Kg	10/06/05	10/13/05
	Benzene	ND	5.0 µg/Kg	10/06/05	10/13/05
	Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg	10/06/05	10/13/05
	Toluene	ND	5.0 µg/Kg	10/06/05	10/13/05
	Ethylbenzene	8.0	5.0 µg/Kg	10/06/05	10/13/05
	m,p-Xylene	110	5.0 µg/Kg	10/06/05	10/13/05
	o-Xylene	68	5.0 µg/Kg	10/06/05	10/13/05

Reported in micrograms per kilogram, per client request.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com


10/19/05

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
21-Oct-05

QC Summary Report

Work Order:
05101223

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: C:\HPCHEM\MS07\DATA\051013\05101306.D

Batch ID: MS07S3314B

Analysis Date: 10/13/2005 09:45

Sample ID: MBLK MS07W1013B

Units: µg/Kg

Run ID: MSD_07_051013A

Prep Date: 10/13/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	1000								
Surr: 1,2-Dichloroethane-d4	199		200		99.7	68	119			
Surr: Toluene-d8	190		200		95	84	116			
Surr: 4-Bromofluorobenzene	208		200		104	72	118			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: C:\HPCHEM\MS07\DATA\051013\05101314.D

Batch ID: MS07S3314B

Analysis Date: 10/13/2005 12:47

Sample ID: GLCS MS07S3314B

Units: µg/Kg

Run ID: MSD_07_051013A

Prep Date: 10/13/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	17400	2000	16000		108	60	153			
Surr: 1,2-Dichloroethane-d4	393		400		98	68	119			
Surr: Toluene-d8	371		400		93	84	116			
Surr: 4-Bromofluorobenzene	392		400		98	72	118			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: C:\HPCHEM\MS07\DATA\051013\05101320.D

Batch ID: MS07S3314B

Analysis Date: 10/13/2005 15:00

Sample ID: 05101223-07AGS

Units: µg/Kg

Run ID: MSD_07_051013A

Prep Date: 10/13/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	17200	2000	16000	0	107	8	177			
Surr: 1,2-Dichloroethane-d4	378		400		94	68	119			
Surr: Toluene-d8	384		400		96	84	116			
Surr: 4-Bromofluorobenzene	400		400		100	72	118			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: C:\HPCHEM\MS07\DATA\051013\05101321.D

Batch ID: MS07S3314B

Analysis Date: 10/13/2005 15:22

Sample ID: 05101223-07AGSD

Units: µg/Kg

Run ID: MSD_07_051013A

Prep Date: 10/13/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	16000	2000	16000	0	100	8	177	17180	7.1(45)	
Surr: 1,2-Dichloroethane-d4	375		400		94	68	119			
Surr: Toluene-d8	379		400		95	84	116			
Surr: 4-Bromofluorobenzene	397		400		99	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per kilogram, per client request.



Alpha Analytical, Inc.

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Date:
21-Oct-05

OC Summary Report

Work Order:
05101223

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\051013\05101306.D

Batch ID: **MS07S3314A**

Analysis Date: **10/13/2005 09:45**

Sample ID: **MBLK MS07W1013A**

Units : **µg/Kg**

Run ID: **MSD_07_051013A**

Prep Date: **10/13/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500								
Methyl tert-butyl ether (MTBE)	ND	5								
Di-isopropyl Ether (DIPE)	ND	20								
Ethyl Tertiary Butyl Ether (ETBE)	ND	20								
1,2-Dichloroethane	ND	20								
Benzene	ND	5								
Tertiary Amyl Methyl Ether (TAME)	ND	20								
Toluene	ND	5								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
o-Xylene	ND	5								
Surr: 1,2-Dichloroethane-d4	199		200		99.7	68	119			
Surr: Toluene-d8	190		200		95	84	116			
Surr: 4-Bromofluorobenzene	208		200		104	72	118			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\051013\05101313.D

Batch ID: **MS07S3314A**

Analysis Date: **10/13/2005 12:24**

Sample ID: **LCS MS07S3314A**

Units : **µg/Kg**

Run ID: **MSD_07_051013A**

Prep Date: **10/13/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	410	10	400		103	58	147			
Toluene	400	10	400		99.9	58	148			
Ethylbenzene	400	10	400		100	59	151			
m,p-Xylene	409	10	400		102	60	155			
o-Xylene	399	10	400		99.8	62	155			
Surr: 1,2-Dichloroethane-d4	414		400		103	68	119			
Surr: Toluene-d8	393		400		98	84	116			
Surr: 4-Bromofluorobenzene	414		400		104	72	118			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\051013\05101318.D

Batch ID: **MS07S3314A**

Analysis Date: **10/13/2005 14:15**

Sample ID: **05101223-07AMS**

Units : **µg/Kg**

Run ID: **MSD_07_051013A**

Prep Date: **10/13/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	409	10	400	0	102	30	151			
Toluene	401	10	400	0	100	25	159			
Ethylbenzene	409	10	400	0	102	27	161			
m,p-Xylene	416	10	400	0	104	22	170			
o-Xylene	407	10	400	0	102	22	171			
Surr: 1,2-Dichloroethane-d4	395		400		99	68	119			
Surr: Toluene-d8	402		400		101	84	116			
Surr: 4-Bromofluorobenzene	398		400		99.6	72	118			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\051013\05101319.D

Batch ID: **MS07S3314A**

Analysis Date: **10/13/2005 14:38**

Sample ID: **05101223-07AMSD**

Units : **µg/Kg**

Run ID: **MSD_07_051013A**

Prep Date: **10/13/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	405	10	400	0	101	30	151	409	1.0(37)	
Toluene	405	10	400	0	101	25	159	400.5	1.2(40)	
Ethylbenzene	408	10	400	0	102	27	161	408.6	0.3(39)	
m,p-Xylene	419	10	400	0	105	22	170	415.7	0.9(40)	
o-Xylene	406	10	400	0	102	22	171	406.7	0.1(41)	
Surr: 1,2-Dichloroethane-d4	394		400		99	68	119			
Surr: Toluene-d8	403		400		101	84	116			
Surr: 4-Bromofluorobenzene	406		400		102	72	118			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
21-Oct-05

OC Summary Report

Work Order:
05101223

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : 10/20/2005

Date of Notice : 10/12/2005 11:34:46

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : **2007-0057-01/ USA 57**

Project Manager: **Scott Bittinger**

Client's EMail: **sbittinger@stratusinc.net**

Work Order Number: **STR05101223**

Client's Phone: **(530) 676-6009**

Client's FAX: **(530) 676-6005**

Date Received: **10/12/2005**

Received by: **Graciela Navarrete**

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	<input type="checkbox"/> SEM	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Cooler Temperature 4°C
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	If YES : see the Chain of Custody (COC)

Comments :

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : STR05101223

Report Due By : 5:00 PM On : 20-Oct-05

Client:

Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Scott Bittinger

TEL : (530) 676-6009 x

FAX : (530) 676-6005

E-Mail : sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : Justin Crose

Report Attention : Scott Bittinger

Job : 2007-0057-01/ USA 57

CC Report :

PO :

Client's COC # : 6506

Cooler Temp : 4°C

Date Printed:

12-Oct-05

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles				TPH/P_S	VOC_S	Requested Tests	Sample Remarks
				ORG	SUB	TAT	PWS #				
STR05101223-01A	EX-2-11	SO	10/07/05 08:45	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-02A	EX-1-11	SO	10/06/05 16:28	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-03A	EX-1-16	SO	10/06/05 16:38	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-04A	EX-1-21	SO	10/06/05 16:56	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-05A	EX-3-11	SO	10/06/05 12:59	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-06A	EX-3-15.5	SO	10/06/05 13:27	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-07A	EX-3-20.5	SO	10/06/05 13:51	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	
STR05101223-08A	EX-4-6	SO	10/06/05 09:06	1	0	6			BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE/GAS/ 5oxys/ 1,2- DCA_C	

Comments: Security seals intact, ice frozen. Ca samples. Send copy of receipt checklist with final report :

Signature: *Guillermo Navarrete* Print Name: *G. Navarrete* Company: Alpha Analytical, Inc. Date/Time: 10/12/05 11:30
 Logged in by:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR05101223

Report Due By : 5:00 PM On : 20-Oct-05

Client:

Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Scott Bittinger
TEL : (530) 676-6009 x
FAX : (530) 676-6005
EMail : sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : Justin Crose

Report Attention : Scott Bittinger

Job : 2007-0057-01/ USA 57

Cooler Temp : 4 °C

Date Printed:

CC Report :

PO :

Client's COC # : 6506

12-Oct-05

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles				Requested Tests				Sample Remarks	
				ORG	SUB	TAT	PWS #	TPHP_S	VOC_S				
STR05101223-09A	EX-4-11	SO	10/06/05 09:18	1	0	6		BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE-GAS/ 5oxys/ 1,2- DCA_C				
STR05101223-10A	EX-4-16.5	SO	10/06/05 09:48	1	0	6		BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE-GAS/ 5oxys/ 1,2- DCA_C				
STR05101223-11A	EX-4-21	SO	10/06/05 10:06	1	0	6		BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE-GAS/ 5oxys/ 1,2- DCA_C				
STR05101223-12A	EX-4-25.5	SO	10/06/05 10:25	1	0	6		BTXE/GAS/ 5oxys/ 1,2- DCA_C	BTXE-GAS/ 5oxys/ 1,2- DCA_C				

Comments: Security seals intact, ice frozen. Ca samples. Send copy of receipt checklist with final report.


Logged in by: Graciela Ullavero G. Navarrete

Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 10/12/05 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Name Stratus Environmental
 Address 3330 Cameron Park Dr Suite 550
 City, State, Zip Cameron Park, CA 95682
 Phone Number (530) 676-6004 Fax (530) 676-6005



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which State?

AZ ___ CA NV ___ WA ___
 ID ___ OR ___ OTHER ___ Page # 1 of 1

Client Name		P.O. #		Job #		Analyses Required				6506			
Address		E-Mail Address		Required QC Level?						I II III IV			
City, State, Zip		Phone #		Fax #		EDD/EDF? YES <input checked="" type="checkbox"/> NO ___				Global ID #			
Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only	Sampled by	Report Attention	TAT	Field Filtered	Total and type of containers** See below	TPAG	BIEX	5 ONLY	12-DCA	REMARKS
			Lab ID Number		Sample Description								
8:45	10/7	SO	05101223-01	Justin Crase	Scott Bittinger	S		1 B	✓	✓	✓	✓	
16:28	10/6	SO	2		EX-1-11	S		1 B	✓	✓	✓	✓	
16:38	10/6	SO	3		EX-1-16	S		1 B	✓	✓	✓	✓	
16:56	10/6	SO	4		EX-1-21	S		1 B	✓	✓	✓	✓	
12:59	10/6	SO	5		EX-3-11	S		1 B	✓	✓	✓	✓	
13:27	10/6	SO	6		EX-3-15.5	S		1 B	✓	✓	✓	✓	
13:51	10/6	SO	7		EX-3-20.5	S		1 B	✓	✓	✓	✓	
9:06	10/6	SO	8		EX-4-6	S		1 B	✓	✓	✓	✓	
9:18	10/6	SO	9		EX-4-11	S		1 B	✓	✓	✓	✓	
9:48	10/6	SO	10		EX-4-16.5	S		1 B	✓	✓	✓	✓	
10:06	10/6	SO	11		EX-4-21	S		1 B	✓	✓	✓	✓	
10:25	10/6	SO	12		EX-4-25.5	S		1 B	✓	✓	✓	✓	

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
Relinquished by <u>Justin Crase</u>	<u>Justin Crase</u>	<u>Stratus Environmental</u>	<u>10/11/05</u>	<u>12:10</u>
Received by <u>Lisa Bryk</u>	<u>Lisa Bryk</u>	<u>ALPHA</u>	<u>10-11-05</u>	<u>12:10</u>
Relinquished by				
Received by <u>Graciela Navarro</u>	<u>G Navarro</u>	<u>Alpha</u>	<u>10-12-05</u>	<u>11:30</u>
Relinquished by				
Received by				

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other ** : L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/26/05

NOV 17 2005

Job#: 2007-0057-01/ USA 57

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Client ID :	Lab ID :	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
S-1	STR05102634-01A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
S-2	STR05102634-02A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
MW-3	STR05102634-03A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
MW-4	STR05102634-04A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
MW-5	STR05102634-05A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
MW-7	STR05102634-06A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
MW-8	STR05102634-07A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
EX-1	STR05102634-08A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
EX-2	STR05102634-09A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
EX-3	STR05102634-10A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05
EX-4	STR05102634-11A	Methanol	ND	5,000 µg/L	10/24/05	10/27/05
		Ethanol	ND	5,000 µg/L	10/24/05	10/27/05



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Reported in micrograms per liter, per client request.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

11/2/05

Report Date



ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 10/26/05

Job#: 2007-0057-01/ USA 57

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH Purgeable	320	50 µg/L	10/24/05	10/28/05
S-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	37	0.50 µg/L	10/24/05	10/28/05
STR05102634-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	2.2	1.0 µg/L	10/24/05	10/28/05
	Benzene	5.0	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	ND	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	1.1	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	1,200	100 µg/L	10/24/05	10/28/05
S-2	Tertiary Butyl Alcohol (TBA)	33	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	69	0.50 µg/L	10/24/05	10/28/05
STR05102634-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	35	1.0 µg/L	10/24/05	10/28/05
	Benzene	100	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	13	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	V 4.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	52	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	27	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	14	0.50 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	2,100	500 µg/L	10/24/05	10/28/05
MW-3	Tertiary Butyl Alcohol (TBA)	750	50 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	300	2.5 µg/L	10/24/05	10/28/05
STR05102634-03A	Di-isopropyl Ether (DIPE)	ND	V 5.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V 5.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	210	5.0 µg/L	10/24/05	10/28/05
	Benzene	460	2.5 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	V 5.0 µg/L	10/24/05	10/28/05
	Toluene	6.9	2.5 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	V 20 µg/L	10/24/05	10/28/05
	Ethylbenzene	7.7	2.5 µg/L	10/24/05	10/28/05
	m,p-Xylene	8.8	2.5 µg/L	10/24/05	10/28/05
	o-Xylene	3.1	2.5 µg/L	10/24/05	10/28/05



Client ID :	TPH Purgeable	ND	50 µg/L	10/24/05	10/28/05
MW-4	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/24/05	10/28/05
STR05102634-04A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	1.0 µg/L	10/24/05	10/28/05
	Benzene	ND	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	ND	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	ND	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	ND	50 µg/L	10/24/05	10/28/05
MW-5	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/24/05	10/28/05
STR05102634-05A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	1.0 µg/L	10/24/05	10/28/05
	Benzene	ND	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	ND	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	ND	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	ND	50 µg/L	10/24/05	10/28/05
MW-7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/24/05	10/28/05
STR05102634-06A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	1.0 µg/L	10/24/05	10/28/05
	Benzene	ND	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	ND	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	ND	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	ND	50 µg/L	10/24/05	10/28/05
MW-8	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	10/24/05	10/28/05
STR05102634-07A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	1.0 µg/L	10/24/05	10/28/05
	Benzene	ND	0.50 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	10/24/05	10/28/05
	Toluene	ND	0.50 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	10/24/05	10/28/05
	Ethylbenzene	ND	0.50 µg/L	10/24/05	10/28/05
	m,p-Xylene	ND	0.50 µg/L	10/24/05	10/28/05
	o-Xylene	ND	0.50 µg/L	10/24/05	10/28/05



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Client ID :	TPH Purgeable	5,000		100 µg/L	10/24/05	10/31/05
EX-1	Tertiary Butyl Alcohol (TBA)	120		10 µg/L	10/24/05	10/31/05
Lab ID :	Methyl tert-butyl ether (MTBE)	360		0.50 µg/L	10/24/05	10/31/05
STR05102634-08A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	10/24/05	10/31/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	10/24/05	10/31/05
	1,2-Dichloroethane	ND		1.0 µg/L	10/24/05	10/31/05
	Benzene	140		0.50 µg/L	10/24/05	10/31/05
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	10/24/05	10/31/05
	Toluene	8.4		0.50 µg/L	10/24/05	10/31/05
	1,2-Dibromoethane (EDB)	ND	V	4.0 µg/L	10/24/05	10/31/05
	Ethylbenzene	20		0.50 µg/L	10/24/05	10/31/05
	m,p-Xylene	160		0.50 µg/L	10/24/05	10/31/05
	o-Xylene	35		0.50 µg/L	10/24/05	10/31/05
Client ID :	TPH Purgeable	42,000		20,000 µg/L	10/24/05	10/28/05
EX-2	Tertiary Butyl Alcohol (TBA)	ND	V	2,000 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	410		100 µg/L	10/24/05	10/28/05
STR05102634-09A	Di-isopropyl Ether (DIPE)	ND	V	200 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	200 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	V	200 µg/L	10/24/05	10/28/05
	Benzene	13,000		100 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	V	200 µg/L	10/24/05	10/28/05
	Toluene	1,300		100 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	V	800 µg/L	10/24/05	10/28/05
	Ethylbenzene	1,300		100 µg/L	10/24/05	10/28/05
	m,p-Xylene	1,600		100 µg/L	10/24/05	10/28/05
	o-Xylene	980		100 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	20,000		2,000 µg/L	10/24/05	10/28/05
EX-3	Tertiary Butyl Alcohol (TBA)	ND	V	200 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	V	10 µg/L	10/24/05	10/28/05
STR05102634-10A	Di-isopropyl Ether (DIPE)	ND	V	20 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	20 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	V	20 µg/L	10/24/05	10/28/05
	Benzene	220		10 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	V	20 µg/L	10/24/05	10/28/05
	Toluene	21		10 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	V	80 µg/L	10/24/05	10/28/05
	Ethylbenzene	660		10 µg/L	10/24/05	10/28/05
	m,p-Xylene	2,800		10 µg/L	10/24/05	10/28/05
	o-Xylene	310		10 µg/L	10/24/05	10/28/05
Client ID :	TPH Purgeable	1,900		500 µg/L	10/24/05	10/28/05
EX-4	Tertiary Butyl Alcohol (TBA)	51		50 µg/L	10/24/05	10/28/05
Lab ID :	Methyl tert-butyl ether (MTBE)	11		2.5 µg/L	10/24/05	10/28/05
STR05102634-11A	Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	10/24/05	10/28/05
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	10/24/05	10/28/05
	1,2-Dichloroethane	ND	V	5.0 µg/L	10/24/05	10/28/05
	Benzene	390		2.5 µg/L	10/24/05	10/28/05
	Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	10/24/05	10/28/05
	Toluene	69		2.5 µg/L	10/24/05	10/28/05
	1,2-Dibromoethane (EDB)	ND	V	20 µg/L	10/24/05	10/28/05
	Ethylbenzene	8.8		2.5 µg/L	10/24/05	10/28/05
	m,p-Xylene	54		2.5 µg/L	10/24/05	10/28/05
	o-Xylene	36		2.5 µg/L	10/24/05	10/28/05



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Reported in micrograms per liter, per client request.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinclman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinclman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

11/2/05

Report Date



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VOC Sample Preservation Report

Work Order: STR05102634

Project: 2007-0057-01/ USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
05102634-01A	S-1	Aqueous	5
05102634-02A	S-2	Aqueous	3
05102634-03A	MW-3	Aqueous	3
05102634-04A	MW-4	Aqueous	3
05102634-05A	MW-5	Aqueous	3
05102634-06A	MW-7	Aqueous	3
05102634-07A	MW-8	Aqueous	2
05102634-08A	EX-1	Aqueous	6
05102634-09A	EX-2	Aqueous	5
05102634-10A	EX-3	Aqueous	5
05102634-11A	EX-4	Aqueous	5

11/2/05

Report Date



Alpha Analytical, Inc

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
03-Nov-05

OC Summary Report

Work Order:
05102634

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **05102810.D**

Batch ID: **MS08W1028B**

Analysis Date: **10/28/2005 13:25**

Sample ID: **MBLK MS08W1028B**

Units : **µg/L**

Run ID: **MSD_08_051028A**

Prep Date: **10/28/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	50								
Surr: 1,2-Dichloroethane-d4	9.75		10		98	76	127			
Surr: Toluene-d8	10.7		10		107	84	113			
Surr: 4-Bromofluorobenzene	9.98		10		99.8	79	119			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **05102808.D**

Batch ID: **MS08W1028B**

Analysis Date: **10/28/2005 12:39**

Sample ID: **GLCS MS08W1028B**

Units : **µg/L**

Run ID: **MSD_08_051028A**

Prep Date: **10/28/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	399	50	400		99.7	78	127			
Surr: 1,2-Dichloroethane-d4	9.78		10		98	76	127			
Surr: Toluene-d8	10.1		10		101	84	113			
Surr: 4-Bromofluorobenzene	9.57		10		96	79	119			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **05102813.D**

Batch ID: **MS08W1028B**

Analysis Date: **10/28/2005 14:33**

Sample ID: **05102630-01AGS**

Units : **µg/L**

Run ID: **MSD_08_051028A**

Prep Date: **10/28/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2270	250	2000	71.89	110	70	139			
Surr: 1,2-Dichloroethane-d4	48.2		50		96	76	127			
Surr: Toluene-d8	51.1		50		102	84	113			
Surr: 4-Bromofluorobenzene	48.6		50		97	79	119			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/DHS LUFT Manual**

File ID: **05102814.D**

Batch ID: **MS08W1028B**

Analysis Date: **10/28/2005 14:56**

Sample ID: **05102630-01AGSD**

Units : **µg/L**

Run ID: **MSD_08_051028A**

Prep Date: **10/28/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2250	250	2000	71.89	109	70	139	2275	1.2(12)	
Surr: 1,2-Dichloroethane-d4	47.4		50		95	76	127			
Surr: Toluene-d8	51.1		50		102	84	113			
Surr: 4-Bromofluorobenzene	48.8		50		98	79	119			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.



Alpha Analytical, Inc

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
03-Nov-05

OC Summary Report

Work Order:
05102634

Method Blank

File ID: 05102810.D

Type: MBLK Test Code: EPA Method SW8260B

Batch ID: MS08W1028A

Analysis Date: 10/28/2005 13:25

Sample ID: MBLK MS08W1028A

Units: µg/L

Run ID: MSD_08_051028A

Prep Date: 10/28/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND									
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
1,2-Dibromoethane (EDB)	ND	2								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.75		10		98	76	127			
Surr: Toluene-d8	10.7		10		107	84	113			
Surr: 4-Bromofluorobenzene	9.98		10		99.8	79	119			

Laboratory Control Spike

File ID: 05102807.D

Type: LCS Test Code: EPA Method SW8260B

Batch ID: MS08W1028A

Analysis Date: 10/28/2005 12:16

Sample ID: LCS MS08W1028A

Units: µg/L

Run ID: MSD_08_051028A

Prep Date: 10/28/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	11	0.5	10		110	81	122			
Toluene	11.5	0.5	10		115	80	120			
Ethylbenzene	11.9	0.5	10		119	80	120			
m,p-Xylene	11.8	0.5	10		118	80	129			
o-Xylene	11.9	0.5	10		119	80	129			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	76	127			
Surr: Toluene-d8	10.4		10		104	84	113			
Surr: 4-Bromofluorobenzene	9.08		10		91	79	119			

Sample Matrix Spike

File ID: 05102811.D

Type: MS Test Code: EPA Method SW8260B

Batch ID: MS08W1028A

Analysis Date: 10/28/2005 13:48

Sample ID: 05102630-01AMS

Units: µg/L

Run ID: MSD_08_051028A

Prep Date: 10/28/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	46.1	1.3	50		0 92	74	125			
Toluene	75.6	1.3	50	28.88	94	76	120			
Ethylbenzene	50.5	1.3	50		0 101	77	124			
m,p-Xylene	50.5	1.3	50	0.69	99.6	73	130			
o-Xylene	51.5	1.3	50		0 103	74	131			
Surr: 1,2-Dichloroethane-d4	48.4		50		97	76	127			
Surr: Toluene-d8	52.1		50		104	84	113			
Surr: 4-Bromofluorobenzene	45.3		50		91	79	119			

Sample Matrix Spike Duplicate

File ID: 05102812.D

Type: MSD Test Code: EPA Method SW8260B

Batch ID: MS08W1028A

Analysis Date: 10/28/2005 14:11

Sample ID: 05102630-01AMSD

Units: µg/L

Run ID: MSD_08_051028A

Prep Date: 10/28/2005

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	49.3	1.3	50		0 99	74	124	46.13	6.7(13)	
Toluene	80.2	1.3	50	28.88	103	76	119	75.63	5.8(13)	
Ethylbenzene	53.6	1.3	50		0 107	77	124	50.46	6.1(13)	
m,p-Xylene	53.5	1.3	50	0.69	106	73	130	50.51	5.8(14)	
o-Xylene	53.8	1.3	50		0 108	74	131	51.46	4.5(13)	
Surr: 1,2-Dichloroethane-d4	49.8		50		99.7	76	127			
Surr: Toluene-d8	51.8		50		104	84	113			
Surr: 4-Bromofluorobenzene	45.9		50		92	79	119			



● Alpha Analytical, Inc ●

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
03-Nov-05

OC Summary Report

Work Order:
05102634

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
03-Nov-05

OC Summary Report

Work Order:
05102634

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MMS1\DATA\051027\05102703.D**

Batch ID: **13404**

Analysis Date: **10/27/2005 10:12**

Sample ID: **MBLK-13404**

Units: **µg/L**

Run ID: **MSD_11_051027A**

Prep Date: **10/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methanol	ND	5000								
Ethanol	ND	5000								
Surr: Hexafluoro-2-propanol	483		500		97	63	137			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MMS1\DATA\051027\05102704.D**

Batch ID: **13404**

Analysis Date: **10/27/2005 10:32**

Sample ID: **LCS-13404**

Units: **µg/L**

Run ID: **MSD_11_051027A**

Prep Date: **10/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methanol	270	50	250		108	45	155			
Ethanol	252	5	250		101	51	144			
Surr: Hexafluoro-2-propanol	468		500		94	63	137			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MMS1\DATA\051027\05102706.D**

Batch ID: **13404**

Analysis Date: **10/27/2005 11:12**

Sample ID: **05102634-02AMS**

Units: **µg/L**

Run ID: **MSD_11_051027A**

Prep Date: **10/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methanol	292	50	250		0 117	45	163			
Ethanol	266	5	250		0 106	50	149			
Surr: Hexafluoro-2-propanol	469		500		94	63	137			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MMS1\DATA\051027\05102707.D**

Batch ID: **13404**

Analysis Date: **10/27/2005 11:33**

Sample ID: **05102634-02AMSD**

Units: **µg/L**

Run ID: **MSD_11_051027A**

Prep Date: **10/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methanol	274	50	250		0 110	45	163	291.6	6.3(22)	
Ethanol	268	5	250		0 107	50	149	265.8	0.8(15)	
Surr: Hexafluoro-2-propanol	471		500		94	63	137			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : 11/3/2005

Date of Notice : 10/26/2005 4:02:12

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : **2007-0057-01/ USA 57**

Project Manager: **Gowri Kowtha**

Client's EMail: **gkowtha@stratusinc.net**

Work Order Number: **STR05102634**

Client's Phone: **(530) 676-6001**

Client's FAX: **(530) 676-6005**

Date Received: **10/26/2005**

Received by: **Graciela Navarrete**

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Custody seals intact on shipping container/cooler ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles ?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	Not Present <input checked="" type="checkbox"/>
Chain of custody signed when relinquished and received ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Chain of custody agrees with sample labels ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample ID noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Date and time of collection noted by Client on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Samplers's name noted on COC ?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Internal Chain of Custody (COC) requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Sub Contract Lab Used :	None <input checked="" type="checkbox"/>	<input type="checkbox"/> SEM	Other (see comments) <input type="checkbox"/>

Sample Receipt Information

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	Cooler Temperature 4°C
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/> No	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes <input type="checkbox"/>	<input type="checkbox"/> No	N/A <input checked="" type="checkbox"/>

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	
Are there client specific Project requirements ?	Yes <input type="checkbox"/>	<input checked="" type="checkbox"/> No	If YES : see the Chain of Custody (COC)

Comments :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : STR05102634

Report Due By : 5:00 PM On : 03-Nov-05

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 550
 Cameron Park, CA 95682-8861

<u>Gowri Kowtha</u>	<u>Steve Carter</u>
TEL : (530) 676-6001 x	TEL : (530) 676-6008 x
FAX : (530) 676-6005	FAX : (530) 676-6005
E-Mail : gkowtha@stratusinc.net	E-Mail : scarter@stratusinc.net

EDD Required : Yes
 Sampled by : Vince Zalutka

Report Attention : Gowri Kowtha
 CC Report : Steve Carter

Job : 2007-0057-01/ USA 57
 PO : Client's COC # : none

Cooler Temp : 4 °C
 Date Printed: 26-Oct-05

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles				Requested Tests			Sample Remarks
				ORG	SUB	TAT	PWS #	ALCOHOL W	TPHP_W	VOC_W	
STR05102634-01A	S-1	AQ	10/24/05 09:44	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	
STR05102634-02A	S-2	AQ	10/24/05 14:20	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	
STR05102634-03A	MW-3	AQ	10/24/05 08:27	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	
STR05102634-04A	MW-4	AQ	10/24/05 10:50	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	
STR05102634-05A	MW-5	AQ	10/24/05 14:31	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	
STR05102634-06A	MW-7	AQ	10/24/05 12:46	5	0	6		MeOH / EtOH	GAS-C	BTEX / SOXY / 1,2-DCA / EDB_C	

Comments: Security seals intact, ice frozen. Ca samples. Send copy of receipt checklist with final report. :

Signature	Print Name	Company	Date/Time
<i>Gowri Kowtha</i>	G. Navarrete	Alpha Analytical, Inc.	10/26/05 3:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR05102634

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail : gkowtha@stratusinc.net

Steve Carter
TEL : (530) 676-6008 x
FAX : (530) 676-6005
EMail : scarter@stratusinc.net

Report Due By : 5:00 PM On : 03-Nov-05

EDD Required : Yes

Sampled by : Vince Zalutka

Report Attention : Gowri Kowtha
CC Report : Steve Carter

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

Cooler Temp : 4°C

Date Printed:
26-Oct-05

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection		No. of Bottles				PWS #	Requested Tests			Sample Remarks
		Matrix	Date	ORG	SUB	TAT			ALCOHOL W	TPH/P_W	VOC_W	
STR05102634-07A	MW-8	AQ	10/24/05 09:58	5	0	6		MeOH/ EtOH	GAS-C	BTEX/ SOXY/ 1,2- DCA/ EDB_C		
STR05102634-08A	EX-1	AQ	10/24/05 11:04	5	0	6		MeOH/ EtOH	GAS-C	BTEX/ SOXY/ 1,2- DCA/ EDB_C		
STR05102634-09A	EX-2	AQ	10/24/05 08:10	5	0	6		MeOH/ EtOH	GAS-C	BTEX/ SOXY/ 1,2- DCA/ EDB_C		
STR05102634-10A	EX-3	AQ	10/24/05 13:56	5	0	6		MeOH/ EtOH	GAS-C	BTEX/ SOXY/ 1,2- DCA/ EDB_C		
STR05102634-11A	EX-4	AQ	10/24/05 14:07	5	0	6		MeOH/ EtOH	GAS-C	BTEX/ SOXY/ 1,2- DCA/ EDB_C		

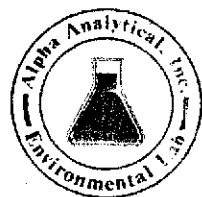
Comments: Security seals intact, ice frozen. Ca samples. Send copy of receipt checklist with final report.

Logged in by:	<i>Graciela Navarrete</i>	Signature	<i>G. Navarrete</i>	Print Name	Company	Date/Time
					Alpha Analytical, Inc.	10/26/05 3:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:		Stratus Environmental		Global ID:	T0600101808
Address:		3330 Cameron Park Drive		EDF:	YES
City, State, Zip:		Cameron Park, CA 95667		Project #:	2007-0057-01
Fax:	530-676-6005	Phone:	530-676-6001	Email:	
Client:		USA 57		Report Attention:	Gowri / Steve
Address:		10700 McArthur Blvd.		Sampled By:	Vince Zalutka
City, State, Zip:		Oakland, CA			



Alpha Analytical, Inc.
 250 Gendale Avenue
 Suite 1.1
 Sparks, NV 89431
 (775) 355-1044
 (775) 355-0406 Fax

Page # 1 of 1

Time Sampled	Date Sampled	Matrix	Lab ID (For Lab Use ONLY)	Sample Description	Containers	TAT (Working Days)	Analysis Requested										Remarks				
							TPH-G	BTEX	5 OXY's	1,2-DCA	EDB	Methanol	EMSA	EMSA	EMSA	EMSA		EMSA			
0944	10/24/2005	AQ	05102634-01	S-1	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1430	10/24/2005	AQ	2	S-2	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
0927	10/24/2005	AQ	3	MW-3	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1050	10/24/2005	AQ	4	MW-4	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1431	10/24/2005	AQ	5	MW-5	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
N/S	10/24/2005	AQ		MW-6	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1246	10/24/2005	AQ	6	MW-7	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						not sampled
0958	10/24/2005	AQ	7	MW-8	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1104	10/24/2005	AQ	8	EX-1	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
0810	10/24/2005	AQ	9	EX-2	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1356	10/24/2005	AQ	10	EX-3	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						
1407	10/24/2005	AQ	11	EX-4	HCL VOA's	STD	X	X	X	X	X	X	X	X	X						

CA
Loddy

ADDITIONAL INSTRUCTIONS:

Signature		Company	Date	Time
Relinquished by: <i>Vince Zalutka</i>	Vince Zalutka	Stratus Environmental	10-25-05	8:30
Received by: <i>Lisa Bryju</i>	Lisa Bryju	ALPHA	10-25-05	8:30
Relinquished by: <i>Isabella Claessens</i>	Isabella Claessens	Alpha	10-26-05	3:50
Received by:				

Key: AQ - Aqueous WA - Waste OT - Other L - Liter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.