

2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

Phone: (925) 283-6000

Fax: (925) 944-2895

February 15, 2005

Mr. Amir Gholami Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94501

Subject: 796 66th Avenue
Oakland, CA
AEI Project No. 5526
ACHCSA Case No. RO0002449

Dear Mr. Gholami:

Enclosed is the Interim Corrective Action Progress Report prepared by EI on behalf of Cruise America, Inc. for the above referenced property America, Inc. for the above referenced property.

I can be reached at (925) 283-6000, extension 104, or at pmcintyre@aeiconsultants.com if you have any questions or would like to discuss this site.

Sincerely

Project Manager

February 11, 2005

INTERIM CORRECTIVE ACTION PROGRESS REPROT

796 66th Avenue Oakland, California

AEI Project No. 8262 ACHCSA Case No. RO0002449

Prepared For:

Cruise America, Inc.
11 West Hampton Avenue
Mesa, AZ 85210

Prepared By

AEI Consultants 2500 Camino Diablo, Suite 202 Walnut Creek, CA 94597

(925) 283-6000

Alconomontal Health FEB 1 & 2005 Environmental Health



TABLE OF CONTENTS

1.0 Introduction	1
2.0 SITE DESCRIPTION AND BACKGROUND	1
3.0 GEOLOGY AND HYDROLOGY	2
4.0 SPARGE WELL INSTALLATION	3
4.1. Well Permits and Clearances 4.2. Well Drilling and Sampling 4.3. Well Construction	3
5.0 SYSTEM INSTALLATION AND OPERATION	4
6.0 GROUNDWATER MONITORING	4
7.0 ANALYTICAL RESULTS	5
7.1. Soil Samples	5
8.0 SUMMARY AND CONCLUSIONS	6
9.0 RECOMMENDATIONS	6
10.0 REPORT LIMITATIONS AND SIGNATURES	7

LIST OF FIGURES

Figure 1	SITE LOCATION MAP
FIGURE 2	PROPERTY MAP
FIGURE 3	SITE PLAN
Figure 4	SPARGE WELL LOCATIONS
FIGURE 5	WATER TABLE CONTOURS: 7/7/04
FIGURE 6	WATER TABLE CONTOURS: 10/13/04
FIGURE 7	WATER TABLE CONTOURS: 1/11/05
FIGURE 8	GROUNDWATER SAMPLE DATA: 1/11/05
FIGURE 9	MTBE vs. TIME: MW-1 & MW-5
FIGURE 10	MTBE vs. TIME: MW-4



LIST OF TABLES

Table 1	SOIL SAMPLE ANALYTICAL DATA
TABLE 2	GROUNDWATER SAMPLE ANALYTICAL DATA: SOIL BORINGS
TABLE 3	GROUNDWATER MONITORING DATA
TABLE 4	FUEL OXYGENATE AND LEAD SCAVENGER DATA
TABLE 5	WATER TABLE DATA SUMMARY

LIST OF APPENDICES

APPENDIX A	WELL CONSTRUCTION PERMIT
APPENDIX B	BORING / WELL LOGS
APPENDIX C	WELL SAMPLING FORMS
APPENDIX D	LABORATORY ANALYTICAL REPORTS



1.0 Introduction

AEI Consultants (AEI) has prepared report to on behalf of Cruise America, Inc., the owner of the property located at 796 66th Avenue in the City of Oakland, California (Figure 1). AEI has been retained by Cruise America to provide environmental engineering and consulting services related to the release of fuel hydrocarbons from the former 10,000 gallon gasoline underground storage tank (UST).

Following the discovery and investigation of the release, the Alameda County Health Care Services Agency (ACHCSA) requested that corrective action be taken to reduce the level of contaminants present at the site. Between May and July 2004, AEI installed an ozone sparge system around the release location with the primary purpose of reducing methyl tert butyl ether (MTBE) concentrations. This report documents the installation of the system and the findings of testing conducted since system startup. In addition, this report serves to report the results of quarterly groundwater monitoring conducted for the 3rd and 4th Quarters 2004 and the 1st Quarter 2005.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is currently occupied by Cruise America, a recreational vehicle rental facility. The property is approximately 5 acres in size. Currently, two buildings exist on the site, surrounded by paved vehicle storage areas. The buildings consist of an office building located on the eastern side of the property and a service building located centrally on the property. Cruise America acquired the property from McGuire Huster in August 1988.

In July 2001, AEI performed a Phase II investigation on the site that included advancing six (6) soil borings (labeled SB-1 through SB-6). The investigation was performed to assess whether the soil or groundwater beneath the site was impacted by two former UST locations on the property (Figure 2). Although low concentrations of TPH as gasoline (TPH-g) and TPH as diesel (TPH-d) were reported in the groundwater beneath the site, high levels of methyl tertiary butyl ether (MTBE) were detected in boring SB-1.

In September of 2001, AEI advanced five (5) additional soil borings (labeled SB-7 through SB-11) in order to determine the source of the high levels of MTBE found in SB-1. Samples collected from SB-7 and SB-8 did not contain MTBE above laboratory reporting limits. MTBE concentrations varied from 630 μ g/L in SB-9 to 13,000 μ g/L in SB-10. These data indicated a leak in the remaining 10,000-gallon gasoline UST on the southern portion of the property as the most likely source of the MTBE.

AEI removed the 10,000-gallon gasoline UST in November of 2001. Concentrations of TPH-g in four of the five soil samples ranged from 4.1 mg/kg to 280 mg/kg. Concentrations of MTBE and benzene, toluene, ethyl benzene, and xylenes (BTEX) were also detected in the five soil samples. The highest concentrations of MTBE and benzene detected in the soil during the tank removal were 53 mg/kg and 13 mg/kg, respectively detected along the southern and eastern sidewalls of



the excavation at approximately 6.5 feet bgs. Elevated concentrations of TPH as gasoline and MTBE were present in the groundwater sample at 44,000 µg/L and 42,000 µg/L, respectively.

Following removal of the tank, the ACHCSA requested further investigation of the release from the 10,000 gallon UST. On September 6, 2002, six (6) borings (labeled SB-12 through SB-17) were advanced. The data from these soil borings was used to determine the placement of five groundwater-monitoring wells, which were installed on September 19, 2002. The wells have been monitored on a quarterly basis since installation.

Based on the findings of the investigation and monitoring activities, the ACHCSA required that corrective action be undertaken. AEI prepared and submitted *Interim Corrective Action Plan*, April 5, 2004 outlining an evaluation and scope of work to implement a treatment program for the release.

Historical soil sample analytical data is summarized in Table 1. Groundwater sample analytical data from soil borings is presented in Tables 2 and groundwater monitoring data in Table 3 and 4. A summary of groundwater flow direction and hydraulic gradient is presented in Table 5. Refer to Figures 2 and 3 for the former location of the USTs and for boring and existing well locations.

3.0 GEOLOGY AND HYDROLOGY

The site is located at an elevation of approximately 10 feet above mean sea level (amsl). The Damon Slough is located approximately 150 feet south of the former UST location. The site is level, and the local topography slopes very gently to the southwest.

The top 3 to 6 feet of soils appears to consist of imported fill of varying gravels, sand, and clay with brick and wood debris encountered locally. Beneath this fill, sediments encountered consisted of sandy and gravely clays to approximately 7 to 10 feet below ground surface (bgs), underlain by black clay with thin sand beds. Gravel content varies, but generally decreased with depth. Groundwater has been observed at the time of drilling soil borings at between approximately 5 and 13 feet bgs. Soil boring SB-17 was advanced to a depth of 50 feet bgs, and revealed an apparent aquitard, consisting of stiff sandy clay from 29 to 45 feet bgs. Below this clay, saturated well-graded gravely sand was encountered.

Water level measurements collected since monitoring began have revealed that the water table exists at between 4 and 6 feet below ground surface. Based on these measurements, it appears that groundwater beneath the site generally flows in a southeasterly direction, with a hydraulic gradient of 10^{-2} to 10^{-3} feet/feet. This flow direction is consistent with information AEI reviewed for a site on the north side of 66^{th} Avenue. Despite these flow direction measurements, the MTBE plume appears to have migrated primarily in a northerly direction from the former UST location. This contaminant plume may be held back by a "wedge" of saline water hydraulically connected to the tidal slough located to the south of the tank hold, as evidenced by the high conductivity readings in wells MW-2 and MW-3 as compared to the more northerly wells. Water table contours for the



three quarterly monitoring events (7/7/04, 10/13/04, and 1/1//05) documented herein are presented on Figures 5, 6, and 7.

4.0 Sparge Well Installation

A sparge well network of twelve wells was installed, surrounding the former tank hold and in the areas of the most highly impacted groundwater. The well installation work was conducted on May 17 and 18, 2004.

4.1. Well Permits and Clearances

Prior to installation of the wells, well construction permits were obtained from Alameda County Public Works Agency (permit # W04-0541). A copy of the permit is included in Appendix A. Underground Service Alert North was notified prior to drilling work to notify public utilities of the planned drilling activities (ticket # 172-478).

4.2. Well Drilling and Sampling

On May 17 and 18, 2004, AEI installed twelve (12) sparge wells (labeled S-1 to S-12). Refer to Figure 4 for sparge well locations. The drilling and well construction work was performed by HEW Drilling (CA C57 License # 604 987) of East Palo Alto, CA. The soil borings were advanced with a hydraulic rotary drill rig running 8½-inch O.D. diameter hollow-stem augers. Drill cuttings were stockpiled onsite and covered, and later transported under manifest to Keller Canyon Landfill in Pittsburg, CA.

The borings were drilled to depths of 15 to 20 feet below ground surface (bgs). Soil samples were collected at approximately five feet intervals, or as needed, from each boring to characterize the sediments of the site and for chemical analysis. The samples were collected with a California modified split spoon sampler into brass liners. The samples and auger returns were logged by an AEI geologist using the Unified Soil Classification System.

Selected soil samples were sealed with Teflon tape, plastic end caps, labeled and stored over ice for analyses. A total of six soil samples were retained and analyzed for TPH-g and BTEX (benzene, toluene, ethyl-benzene, and xylenes) and MTBE by EPA method 8015 & 8021 at McCampbell Analytical Inc. (DOHS Certification Number 1644) of Pacheco, California. Soil sample analytical data is included in Table 1.

4.3. Well Construction

Each well was constructed with 3/4" diameter flush threaded PVC well casing equipped with an 30" microporous sparge points supplied by Kerfoot Technologies, Inc (KVA). The sparge points were set to depths ranging from 15 to 18 feet bgs. The annulus of each well was backfilled with 2/16 sand to 2 feet above to top of the sparge point. Bentonite was emplaced above the sand back and hydrated. The remainder of the annulus was



backfilled with neat cement grout slurry to just below ground surface. Following installation of air lines, each well was finished with a flush mount traffic rated well box. Refer to Appendix B for logs of the borings and well construction details.

5.0 System Installation and Operation

The sparge system and associated equipment was installed between May and July 2004. The ozone generator and compressor unit was installed at the western end of the planter area, adjacent to the former tank hold. PVC conduits and supply lines were installed from the compressor location, in the shortest runs possible to each of the twelve sparge wells. Refer to Figure 4 for locations of the sparge unit and sparge lines. Each line was equipment with two (2) one-way check valves, one installed at the well head and one installed at the base of the sparge unit, just after the solenoid valve assembly.

The sparge unit and controller were provided by KVA and consist of an ozone generator, oxygen concentrator unit, air compressor, and controller and valve assembly. The unit box is equipped with an ozone detector and shut-off switch. Electrical service was provided from the house panel located in the service building to the west of the treatment unit. The system controller was programmed to sparge on each of the wells sequentially for 6 minutes per well for a total of 16 cycles per day, for a total of 96 minutes per well per day. This program allows the system 20% rest time, per the manufacturers recommendations. The system flow rate is approximately 3 standard cubic feet per minute of oxygen and ozone rich air.

The system was started on July 15, 2004. Prior to startup, all lines and connections were checked. A portable ozone detector was utilized at each of the well heads and within the unit housing to ensure that no leaks were occurring. Since startup, system inspections have been performed on a regular basis to ensure property operation. Manifold pressures are monitored to ensure that clogging of sparge points or line leakage is not occurring. Pressures on individual wells have been steady since startup. Two periods of unscheduled downtime have occurred; one in mid August for approximately 6 days and again in late October for approximately 19 days, both due to the electrical circuit breaker being turned off inadvertently at the panel within the repair shop building. Pressure differences between wells are attributed to differences in hydrostatic pressure above the sparge points and backpressure caused by different distances from the sparge unit to the wellheads.

6.0 GROUNDWATER MONITORING

Monitoring of the all existing monitoring wells (MW-1 to MW-5) was performed on July 7, 2004, prior to startup to provide a baseline for treatment progress. Monitoring of selected wells (MW-1, MW-4, and MW-5) was performed on a periodic basis for several months following startup (July 19, August 6, August 20, and September 3, 2004). Monitoring of all wells were performed on October 13, 2004 and January 11, 2005, which corresponds with the previously established quarterly monitoring schedule.



During each sampling event, AEI staff first opened the wells to allowed water levels to equilibrate with atmospheric pressure. The depth to water from the top of the well casings was measured prior to sampling with an electric water level indicator. The wells were then purged of at least three well volumes of water using a battery powered submersible pump.

During purging, groundwater quality parameters were measure and the turbidity was visually noted. The wells were allowed to recharge prior to collection of samples. Groundwater samples were collected from each well using clean, disposable plastic bailers. Refer to Appendix C for well sampling forms, which include water quality data and observations made during each monitoring event.

The samples were collected into 40 ml volatile organic analysis (VOA) vials. The samples were capped so that neither head space nor air bubbles were visible within the sample containers. Samples were labeled with unique identifiers, stored over water ice, and placed under chain of custody. The samples were transported on the day of collection to McCampbell Analytical, Inc. of Pacheco, California (Department of Health Services Certification #1644). Samples were analyzed for TPH-g and BTEX (benzene, toluene, ethyl-benzene, and xylenes) and MTBE by EPA method 8015 & 8021 and for MTBE and tert butyl alcohol (TBA) by EPA method 8260B. Copies of laboratory reports and chain of custody documents are included in Appendix D.

7.0 ANALYTICAL RESULTS

7.1. Soil Samples

TPH-g was detected in four of the six soil samples, up to 360 mg/kg (S-6 6'). MBTE was detected in four samples, ranging from 1.1 mg/kg to 2.7 mg/kg, although an elevated detection limit is noted on several of the samples. Benzene was detected in two samples, up to 0.61 mg/kg (S-6 6'). Toluene, ethylbenzene, and xylenes were also detected in several samples, up to 1.8 mg/kg, 5.0 mg/kg, and 5.2 mg/kg, respectively, all in S-6 6'. Refer to Table 1 for soil sample analytical data.

7.2. Baseline Results

The baseline monitoring of the five wells was conducted on July 7, 2004. MTBE was detected in MW-1 at 4,900 μ g/l; MW-4 at 1,400 μ g/l; and MW-5 at 15,000 μ g/l (EPA method 8021). Low to non-detect concentrations of TPH-g and BTEX were detected in the wells.

7.3. Progress Monitoring

MTBE concentrations have exhibited a steady decrease in wells MW-1, MW-4, and MW-5 since the July 19, 2004 sampling episode. In these wells MTBE was detected at 880 μ g/l, 450 μ g/l, and 3,000 μ g/l, respectively, in January 2005. Concentrations of TPH-g and



BTEX have remained near or below detection limits in all of the wells. TBA was detected for the first time at the site in wells MW-1 (910 μ g/l) and MW-5 (1,200 μ g/l) during the January 11, 2005 event.

Refer to Table 3 for detailed groundwater sample analytical data and to Figure 8 for most recent analytical results.

8.0 SUMMARY AND CONCLUSIONS

An ozone sparge system was installed at the site between May and July 2004 as an interim corrective action measure to reduce contaminants, particularly MTBE, at the site. The sparge well network consists of 12 sparge points installed around the former tank hold and areas of most highly impacted soil and groundwater. The goal of this treatment is oxidize fuel hydrocarbon contaminants, particularly MTBE, in the groundwater and capillary fringe soils.

Based on monitoring data, the sparging has been effective at reducing contaminant concentrations. MTBE concentrations have decreased appreciably since startup, as can be seen in Figures 9 and 10 which show plots of MTBE concentrations in wells MW-1, MW-4, and MW-5. MTBE concentrations have decreased in these wells by 82%, 68%, and 80% in these wells, respectively, between July 7, 2004 and January 11, 2005, using EPA method 8021 data.

The appearance of TBA, which is an intermediate degradation product of MTBE oxidation, in MW-1 and MW-5, is an added indicator of MTBE degradation; however, it is possible that TBA has been present in groundwater since before treatment began. Due to elevated detection limits for TBA during previous sampling events, the concentrations of TBA detected in January 2005 would not have been previously reported. TBA will continue to be analyzed for during future monitoring events.

9.0 RECOMMENDATIONS

Based on the observed decrease in dissolved contaminant concentrations, primarily MTBE, since initiation of sparging, continued operation is recommended. Sampling of the five monitoring wells should continue on a quarterly basis, with the next event scheduled for early April 2005. Treatment progress updates will be included with the quarterly reporting. If contaminant concentration decreases become asymptotic, a period of system downtime should be considered to evaluate rebound that may occur.



10.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and consulting field that existed at the time and location of the work.

Sincerely,

AEI Consultants

Peter McIntyre, R.G. Project Manager

Robert F Flory, R.G.

Senior Project Geologist

PETER J. WCMTYRE

CAP NO 11/07

AND OF CALL

OF

No. 5825

Distribution:

Cruise America, Inc.
11 West Hampton Avenue

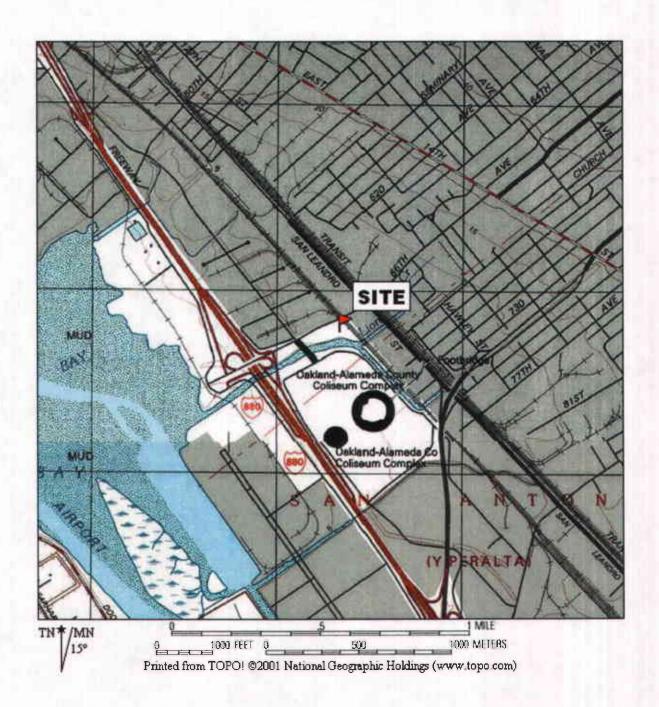
Mesa, AZ 85210

Mr. Amir Gholami

ACHCSA

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94501

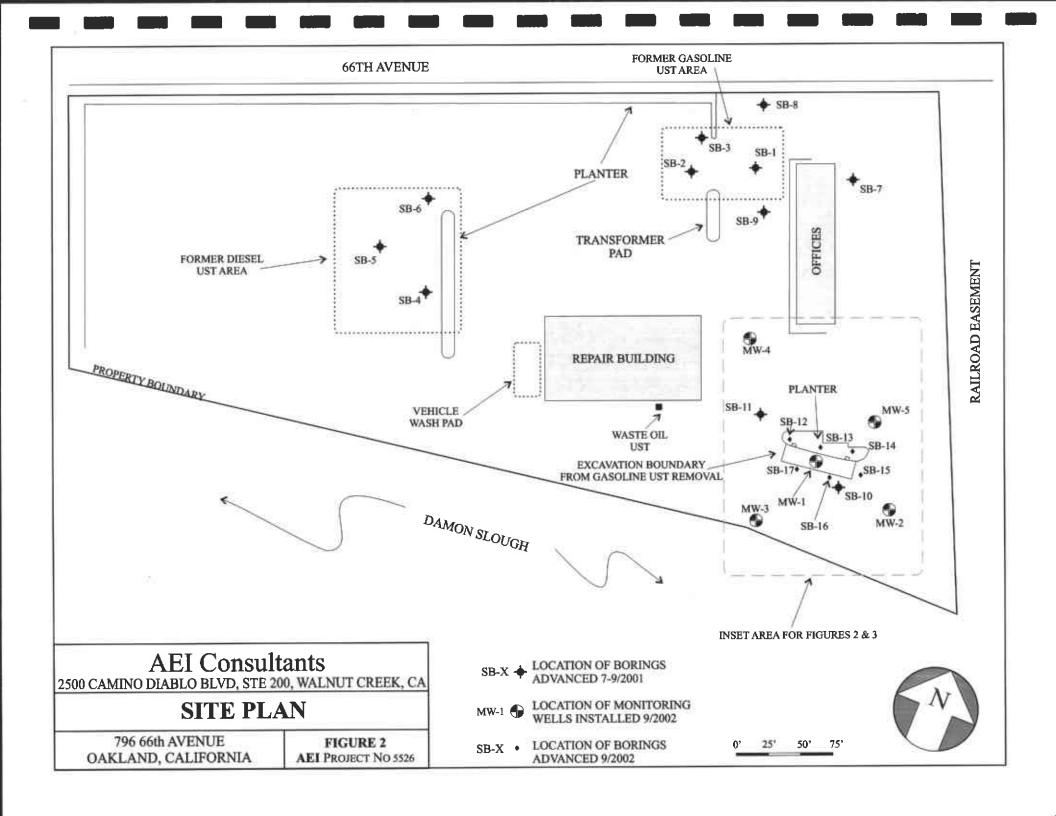


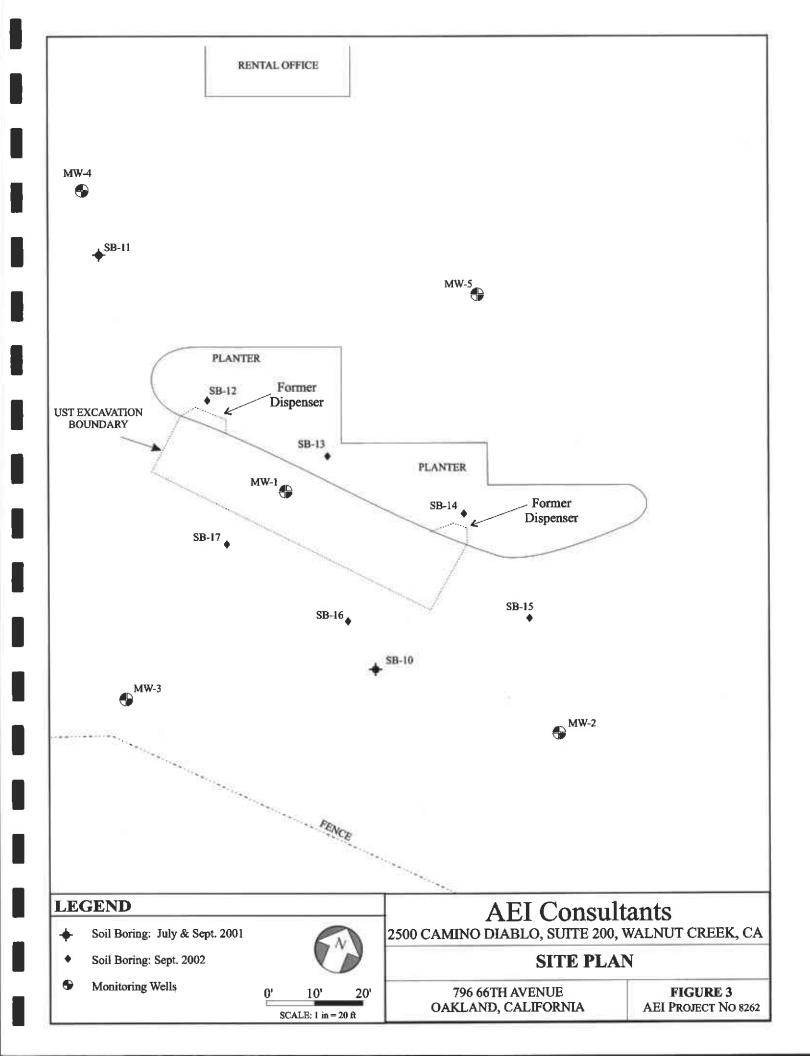
AEI CONSULTANTS

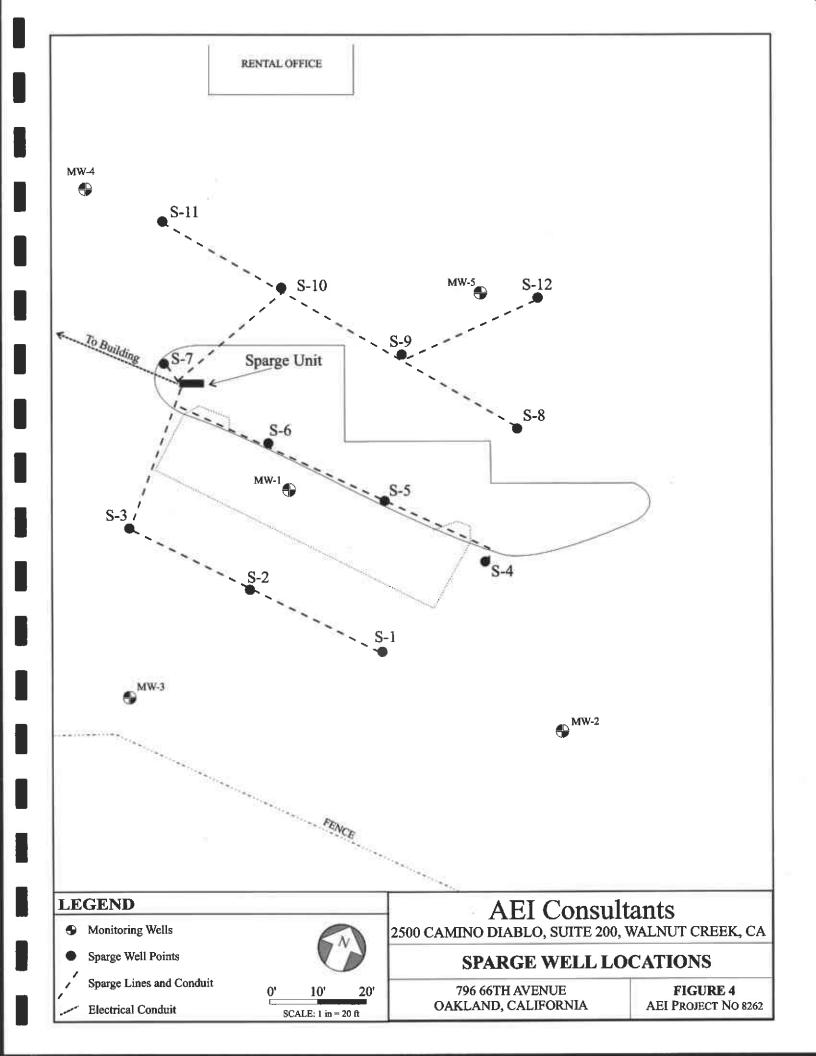
SITE LOCATION MAP

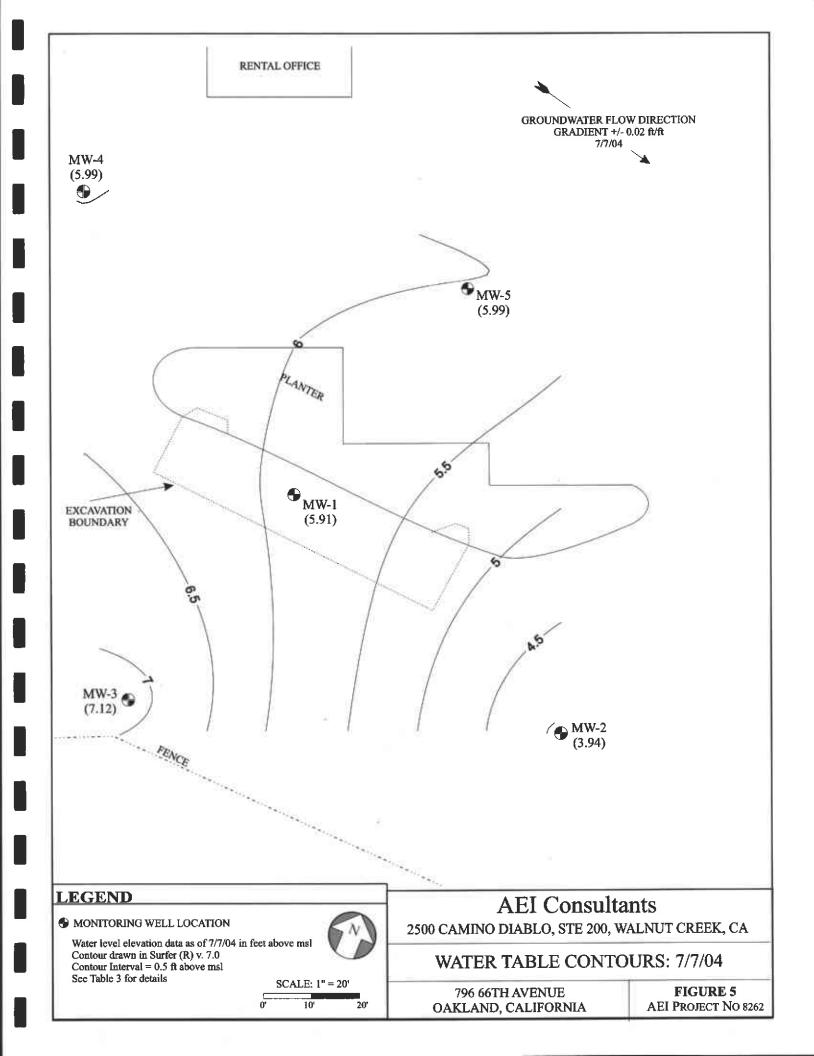
796 66th AVENUE OAKLAND, CALIFORNIA

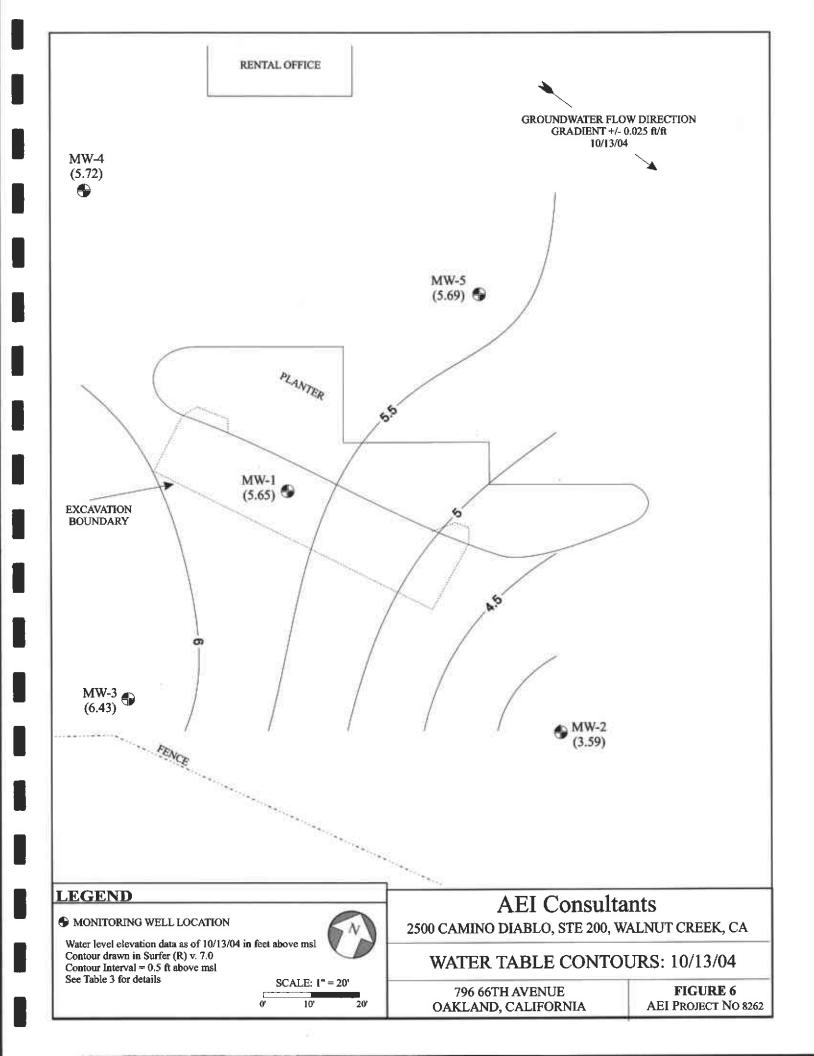
FIGURE 1 PROJECT NO. 8262

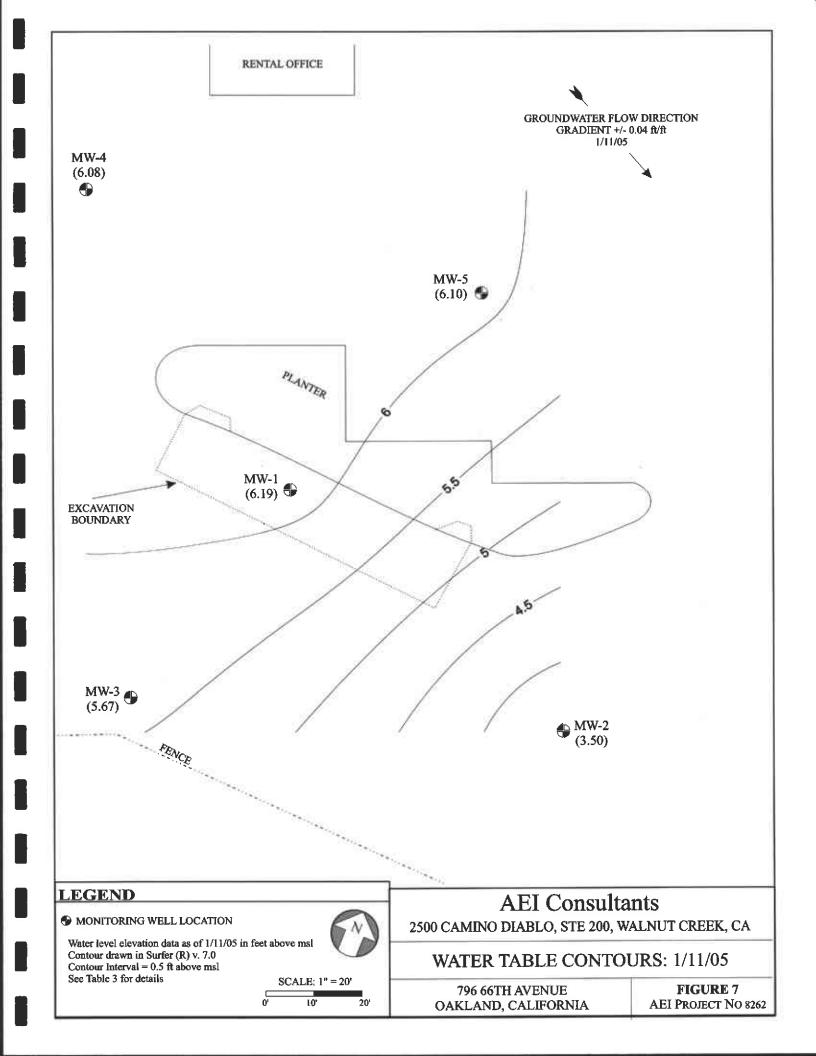


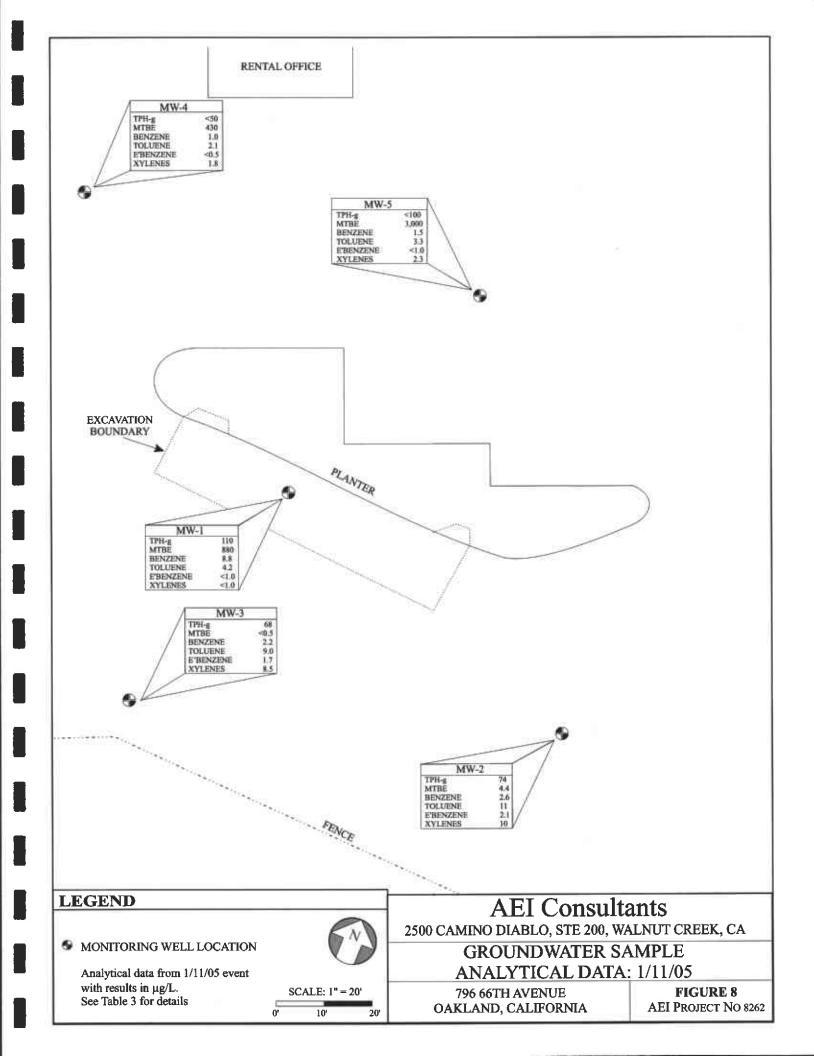


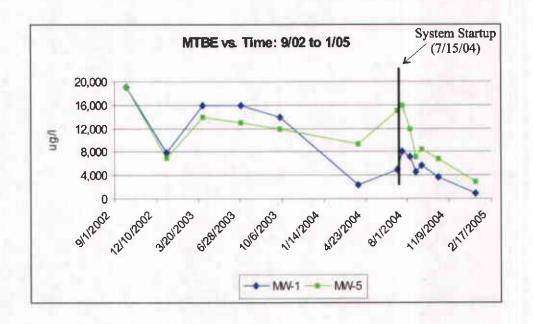


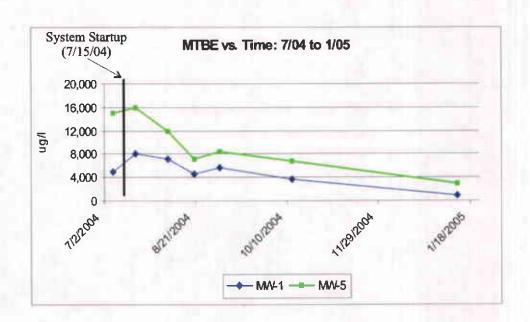










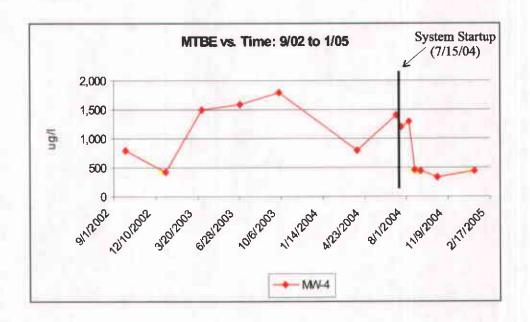


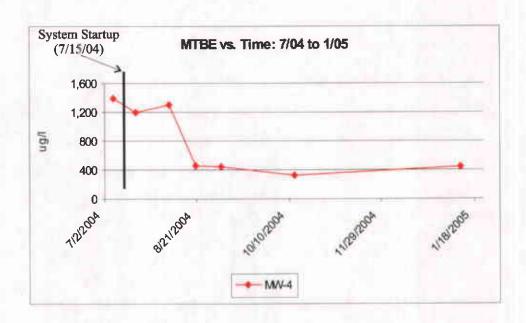
AEI Consultants

2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA

MTBE vs. TIME: MW-1 & MW-5

796 66TH AVENUE OAKLAND, CALIFORNIA FIGURE 9 AEI PROJECT NO 8262





AEI Consultants

2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA

MTBE vs. TIME: MW-4

796 66TH AVENUE OAKLAND, CALIFORNIA FIGURE 10 AEI PROJECT NO 8262

Table 1 Soil Sample Analytical Data

		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Lea	
Sample ID	Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
		6-6							mg/kg	mg/l
SB-1 7'	7/17/2001	<1.0	-	<0.05	<0.005	<0.005	< 0.005	< 0.005	_	
SB-2 6'	7/17/2001	<1.0	26	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-	
SB-2 10'	7/17/2001	<1.0	_	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-	
SB-3 4'	7/17/2001	<1.0	_	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-	
SB-4 6'	7/17/2001	<1.0	2.8	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	-	
SB-5 4'	7/17/2001	5.0	13	< 0.05	0.1600	0.058	0.11	0.21	-	
SB-5 7'	7/17/2001	9.7	37	< 0.05	0.059	0.012	0.007	0.056	-	-
SB-6 7'	7/17/2001	1.5	11	< 0.05	0.008	0.018	< 0.005	< 0.005	-	-
SB-6 15'	7/17/2001	<1.0	<1.0	< 0.05	<0.005	< 0.005	< 0.005	<0.005	-	-
SB-8 4'	9/28/2001	16	_	<0.05	0.053	0.11	0.031	0.14	-	-
SB-8 11'	9/28/2001	<1.0	-	< 0.05	<0.005	< 0.005	< 0.005	< 0.005	-	-
Disp-East 3'	11/30/2001	110	_	<0.20	0.07	1.2	0.16	5.2	-	-
Disp-West 3'	11/30/2001	280	-	6	0.25	7.5	4.1	26	-	-
South 6 1/2	11/30/2001	4.1	-	53	0.038	0.16	0.034	0.19	-	-
West 6 1/2	11/30/2001	<50	-	0.99	< 0.005	0.014	0.011	0.046	-	
East 6 1/2	11/30/2001	140	-	50	13	3.9	7.9	18	-	-
SB-12 5'	9/6/2002	<50	-	< 0.05	<0.005	<0.005	< 0.005	<0.005	1200	23
SB-13 4'	9/6/2002	15,000	-	<50	21	840	300	1700	830	7.5
SB-14 4'	9/6/2002	<50	-	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	110	2.7
SB-15 4'	9/6/2002	<50	-	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	5	-
SB-16 4'	9/6/2002	73	-	1.5	< 0.05	0.18	<0.05	< 0.05	20	-
SB-17 4'	9/6/2002	1.2	-	2.1	0.0073	0.007	< 0.005	0.011	3.2	-
SB-17 39'	9/6/2002	<50	-	<0.05	<0.005	<0.005	<0.005	<0.005	3.3	-
MW-1 4'	9/19/2002	<1.0	-	<0.05	<0.005	<0.005	< 0.005	<0.005	5.9	-
MW-2 4"	9/19/2002	<1.0		< 0.05	<0.005	<0.005	< 0.005	< 0.005	25	-
MW-3 4'	9/19/2002	<1.0	-	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	25	-
MW-4 4'	9/19/2002	6.2	-	< 0.05	< 0.005	0.0080	0.0078	0.021	160	-
MW-5 4'	9/19/2002	<1.0	-	2.0	0.0053	0.0088	<0.005	0.010	190	-
S-1 6'	5/17/2004	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	_
S-2 6'	5/17/2004	31	-	2.7	0.035	0.32	0.082	0.27	•	-
S-5 6'	5/17/2004	1.2	-	2.1	< 0.005	0.014	< 0.005	0.020	-	-
S-6 6'	5/17/2004	360	-	<3.5	0.61	1.8	5.0	5.2	-	-
S-7 6'	5/18/2004	3.8	-	2.0	< 0.005	0.016	< 0.005	< 0.005	-	-
S-12 11'	5/18/2004	<1.0	-	1.1	<0.005	<0.005	<0.005	<0.005	-	-
MDL		1.0	1.0	0.05	0.005	0.005	0.005	0.005	3	0.200

MDL = Method Detection Limit
-= Sample not analyzed by this method

mg/kg = milligrams per kilogram mg/l = milligrams per liter

Table 2
Groundwater Sample Analytical Data: Soil Borings

Sample		TPH-g	TPH-d		E(μg/L)	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
ID	Date	μg/L	μg/L	(EPA 8020)	(EPA 8260)	μg/L	μg/L	μg/L	μg/L	mg/L
OD 4 177	7/17/0001	-50		650		0.63	<0.5	<0.5	<0.5	_
SB-1 W	7/17/2001	<50	-		-				<0.5	-
SB-2 W	7/17/2001	<50	-	<5.0	-	<0.5	<0.5	<0.5		-
SB-3 W	7/17/2001	120	-	<5.0	-	<0.5	4.6	<0.5	<0.5	-
SB-4 W	7/17/2001	<50	990	< 5.0	-	<0.5	<0.5	<0.5	<0.5	-
SB-5 W	7/17/2001	68	410	<5.0	-	<0.5	0.66	<0.5	<0.5	-
SB-6 W	7/17/2001	240	590	<5.0	-	<0.5	2.9	<0.5	<0.5	-
SB-7 W	9/28/2001	<50	-	<5.0	<0.5	<0.5	0.74	<0.5	<0.5	-
SB-9 W	9/28/2001	<50	-	670	630	<0.5	1.0	<0.5	< 0.5	-
SB-10 W	9/28/2001	<500	-	15,000	13,000	<2.0	<2.0	2.5	<2.0	-
SB-11 W	9/28/2001	58	-	1,900	1,700	2.4	1.8	<0.5	0.79	-
GW*	11/30/2001	44,000	-	42,000	-	590	5100	640	3500	-
SB-12	9/6/2002	<1000	_	31,000	32,000	44	<10	<10	<10	<0.005
SB-13	9/6/2002	13,000	-	51,000	49,000	300	1700	320	1,800	< 0.005
SB-14	9/6/2002	<500	-	11,000	9,500	<5.0	< 5.0	< 5.0	<5.0	< 0.005
SB-15	9/6/2002	300	-	730	770	< 0.5	3.2	0.71	3.5	0.039
SB-16	9/6/2002	<200	-	3,900	2,700	<1	2.1	<1	2.5	< 0.005
SB-17	9/6/2002	<200		5,900	5,500	<1.7	3.8	<1.7	4.2	< 0.005
SB-17-W 47'	9/6/2002	90	-	150	120	1.7	3.5	1.9	3.5	=
MDL		50	50	5.0	_	0.5	0.5	0.5	0.5	0.005

MDL = Method Detection Limit μg/L = micrograms per liter (ppb) mg/L = milligrams per liter (ppm)

^{- =} Sample not analyzed by this method

^{*} Sample GW was collected from standing water within the tank excavation

Table 3
Groundwater Monitoring Data

Well ID		Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MT	TBE	TBA
(screen interval	Date	Elevation	Water	Elevation	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
in ft bgs)		ft (amsl)	ft (TOC)	ft (amsl)	(8015Cm)		(EPA me	thod 8021B)		(8021B)	(8260B)	`(8260B)
MW-1	9/30/2002	10.88	5.41	5.47	1,800	50	15	16	18	19,000	13,000	<5000
(4-14)	1/2/2003	10.88	4.77	6.11	660	24	6.4	<2.5	<2.5	7,800	8,900	•
(4-14)	3/31/2003	10.88	4.95	5.93	660	11	6.4	<5.0	<5.0	16,000	20,000	
	6/30/2003	10.88	4.54	6.34	. 830	<5.0	6.8	<5.0	<5.0	16,000	17,000	-
	10/1/2003	10.88	4.66	6.22	720	<5.0	<5.0	<5.0	< 5.0	14,000	13,000	-
	1/5/2004	10.88	4.07	6.81	<300	7.8	2.9	<3.0	<3.0	-	8,700	-
	4/5/2004	10.88	4.33	6.55	100	2.8	3.0	<1.0	<1.0	2,300	3,000	<500
	7/7/2004	10.88	4.97	5.91	190	<1.7	2.0	<1.7	<1.7	4,900	5,500	<1000
	7/19/2004	10.88	5.12	5.76	340	<2.5	4.0	<2.5	<2.5	8,000	9,200	<1700
	8/6/2004	10.88	5.13	5.75	280	<0.5	5.6	< 0.5	<0.5	7,200	5,900	<1000
	8/20/2004	10.88	5.31	5.57	<250	<2.5	<2.5	<2.5	<2.5	4,600	-	
	9/3/2004	10.88	5.22	5.66	<250	<2.5	<2.5	<2.5	<2.5	5,700	4,700	<1000
	10/13/2004	10.88	5.23	5.65	170	<0.5	4.8	<0.5	<0.5	3,700	4,400	-
	1/11/2005	10.88	4.69	6.19	110	8.8	4.2	<0.5	<0.5	880	990	910
MW-2	9/30/2002	10.77	8.00	2,77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.84	<5.0
(4-14)	1/2/2003	10.77	5.91	4.86	<50	<0.5	<0.5	<0.5	<0.5	19	20	-
(1.2.7)	3/31/2003	10.77	5.15	5.62	<50	<0.5	< 0.5	<0.5	<0.5	<5.0	3.9	-
	6/30/2003	10.77	5.91	4.86	<50	<0.5	<0.5	<0.5	<0.5	7.0	9.6	-
	10/1/2003	10.77	6.69	4.08	<50	<0.5	< 0.5	<0.5	<0.5	7.7	6.7	-
	1/5/2004	10.77	6.18	4.59	71	4.7	13	2.7	12	-	7.8	-
	4/5/2004	10.77	7.22	3.55	210	14	39	6.6	27	16	13	<5.0
	7/7/2004	10.77	6.83	3.94	<50	<0.5	<0.5	<0.5	<0.5	5.7	5.6	<5.0
	10/13/2004	10.77	7.18	3.59	<50	<0.5	< 0.5	<0.5	<0.5	<5.0	2.6	-
	1/11/2005	10.77	7.27	3.50	74	2.6	11	2.1	10	<5.0	4.4	<5.0
MW-3	9/30/2002	10.20	5.21	4.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
(4-14)	1/2/2003	10.20	5.31	4.89	<50	0.89	0.50	<0.5	0.72	15	14	-
l ` ′	3/31/2003	10.20	4.58	5.62	< 50	<0.5	<0.5	<0.5	<0.5	<5.0	0.62	-
	6/30/2003	10.20	3.83	6.37	< 50	<0.5	<0.5	<0.5	<0.5	<5.0	1.6	-
	10/1/2003	10.20	4.02	6.18	<50	<0.5	< 0.5	<0.5	<0.5	<5.0	<0.5	-
	1/5/2004	10.77	6.18	4.59	71	4.7	13	2.7	12	-	7.8	-
	4/5/2004	10.20	3.79	6.41	120	8.8	22	3.2	13	<5.0	<0.5	<5.0
	7/7/2004	10.88	3.76	7.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.0	<5.0
	10/13/2004	10.88	4.45	6.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	-
	1/11/2005	10.88	5.21	5.67	68	2.2	9.0	1.7	8.5	<5.0	<0.5	<5.0

Table 3 Continued

Well ID		Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	МТ	BE	TBA
(screen interval	Date	Elevation	Water	Elevation	μg/L	μg/L	μg/L	. μg/L	μg/L	μg/L	μg/L	μg/L
in ft bgs)		ft (amsl)	ft (TOC)	ft (amsl)	(8015Cm)		(EPA me	thod 8021B)		(8021B)	(8260B)	(8260B)
MW-4	9/30/2002	11.07	5.50	5.57	<100	<0.5	<0.5	<0.5	<0.5	790	750	<100
	1/2/2003	11.07	4.90	6.17	<50	<0.5	<0.5	<0.5	<0.5	420	460	-
(4-14)	3/31/2003	11.07	4.81	6.26	<50	<0.5	<0.5	<0.5	<0.5	1,500	1,400	_
	6/30/2003	11.07	4.61	6.46	<50	<0.5	<0.5	<0.5	<0.5	1,600	1,200	_
	10/1/2003	11.07	4.76	6.31	<50	<0.5	<0.5	<0.5	<0.5	1,800	1,400	_
	1/5/2004	11.07	4.70	6.75	<50	3.0	6.7	1.4	6.1	-	1,200	
	4/5/2004	11.07	4.43	6.64	<50	0.79	2.0	<0.5	2.2	800	840	<250
	7/7/2004	11.07	5.08	5.99	<50	<0.5	<0.5	<0.5	<0.5	1,400	2,100	<250
	7/19/2004		5.19	5.88	<50	<0.5	<0.5	<0.5	<0.5	1,200	1,300	<500
		11.07	5.20	5.87	<50	0.76	<0.5	<0.5	<0.5	1,300	1,200	<500
	8/6/2004	11.07	5.20	5.70	<50	<0.5	<0.5	<0.5 <0.5	<0.5	460	-	\ 300
	8/20/2004	11.07			<50	<0.5	<0.5	<0.5	<0.5	440	370	<50
	9/3/2004	11.07	5.35	5.72		<0.5	<0.5	<0.5	<0.5	330	360	~J0
	10/13/2004	11.07	5.35	5.72	<50 <50	1.0	2.1	<0.5	1.8	450	430	<100
	1/11/2005	11.07	4.99	6.08	<50	1.0	2.1	<0.5	1.0	430	430	<100
MW-5	9/30/2002	11.18	5.62	5.56	<2,000	<5.0	<5.0	<5.0	<5.0	19,000	18000	<2500
(4-14)	1/2/2003	11.18	5.12	6.06	<50	<0.5	< 0.5	< 0.5	<0.5	7,000	7,000	-
` ′	3/31/2003	11.18	4.93	6.25	<500	<5.0	<5.0	<5.0	<5.0	14,000	12,000	-
	6/30/2003	11.18	4.75	6.43	<500	<5.0	<5.0	<5.0	<5.0	13,000	15,000	-
	10/1/2003	11.18	4.88	6.30	<500	<5.0	<5.0	<5.0	<5.0	12,000	11,000	-
	1/5/2004	11.18	4.19	6.99	<1000	<10	<10	<10	<10	-	11,000	-
	4/5/2004	11.18	4.57	6.61	<250	<2.5	<2.5	<2.5	<2.5	9,400	13,000	<2500
	7/7/2004	11.18	5.19	5.99	<500	<5.0	<5.0	<5.0	<5.0	15,000	19,000	<2000
	7/19/2004	11.18	5.32	5.86	<500	<5.0	< 5.0	<5.0	<5.0	16,000	14,000	<2500
	8/6/2004	11.18	5.33	5.85	110	<0.5	<0.5	<0.5	<0.5	12,000	11,000	<2500
	8/20/2004	11.18	5.49	5.69	<500	<5.0	<5.0	<5.0	<5.0	7,200	-	-
	9/3/2004	11.18	5.48	5.70	<500	<2.5	<2.5	<2.5	<2.5	8,500	7,200	<1700
	10/13/2004	11.18	5.49	5.69	<250	<2.5	<2.5	<2.5	<2.5	6,700	7,700	-
	1/11/2005	11.18	5.08	6.10	<100	1.5	3.3	<1.0	2.3	3,000	4,800	1,200

ND = Not detected above the Method Detection Limit (unless otherwise noted)

 $[\]mu$ g/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

^{- =} Sample not analyzed by this method

Table 4
Fuel Oxygenate and Lead Scavenger Data

Sample ID	Date	Diisopropyl ether (DIPE) µg/L	Ethyl tert-butyl ether (ETBE) µg/L	Methyl-t-butyl ether (MTBE) μg/L	tert-Amyl methyl ether (TAME) µg/L	t-Butyl alcohol (TBA) µg/L	1,2-Dibromoethane (EDB) µg/L	1,2-Dichloroethane (1,2-DCA) µg/L
MW-1	9/30/2002	<500	<500	13,000	<500	<5000	<500	<500
MW-2	9/30/2002	<0.5	<0.5	0.84	<0.5	<5.0	<0.5	<0.5
MW-3	9/30/2002	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
MW-4	9/30/2002	<10	<10	750	<10	<100	<10	<10
MW-5	9/30/2002	<250	<250	18,000	<250	<2,500	<250	<250
MDL		0.5	0.5	0.5	0.5	5	0.5	0.5

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

μg/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

- = Sample not analyzed by this method

Table 5
Water Table Data Summary

Episode	Date	Average Water Table Elevation	Change From Previous	Gradient (direction)
1	9/30/2002	4.87		0.005 (S)
2	1/2/2003	5.62	0.75	0.022 (SSE)
3	3/31/2003	6.12	0.50	0.006 (SSE)
4	6/30/2003	6.09	-0.03	0.020 (SE)
5	10/1/2003	5.82	-0.27	0.029-0.001 (SE)
6	1/5/2004	6.06	0.24	0.03 (SE)
7	4/5/2004	5.95	-0.11	0.02 (E)
8	7/7/2004	5.65	-0.30	0.02 (E)
9	7/19/2004	5.83	0.18	nc
10	8/6/2004	5.82	-0.01	nc
11	8/20/2004	5.65	-0.17	nc
12	9/3/2004	5.69	0.04	nc
13	10/13/2004	5.28	-0.41	0.02 (E)
14	1/11/2005	5.60	0.32	0.02 (E)

All well elevations and depths to water are measured from the top of the casing (TOC)

ft (amsl) = feet above mean sea level

Average Water Table calculated in Excel

nc = not calculated

APPENDIX A WELL CONSTRUCTION PERMIT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
100 ELNHURST ST. HAYWARD CA. 94544-1395
PROMS (510) 678-4633 James You
PROMS (510) 678-4633 James You

EAX (510) 752-1939 APPLICANTS: PLEASE ATTACE A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION FOR OFFICE USE FOR APPLICANT TO COMPLETE PERMIT NUMBER LOCATION OF PROJECT WELL NUMBER TURNUE APN 1970 PERMIT CONDITIONS Circled Permit Requirements Apply America GENERAL Name Cruise Address /) west A permit application should be submitted so as to 4 XP 464 -73 95 Av Phone errive at the ACPWA office five days prior to \$52/Q City Me proposed skuting date. 2. Shinnit to ACPWA within 60 days after completion of permitted original Department of Water Resources. Well Completion Report. 3. Fermit is void if project not begun within 90 days of Address 2500 approval date. B. WATER SUPPLY WELLS I, Minimum suchee seal thickness is two inches of coment grout placed by tremia. 2. Minimum seal dopth is 50 feet for municipal and TYPE OF PROJECT Geotochnical Investigation Industrial wells or 20 feet for demostic and irrigation Wall Construction General wells unless a leasur depth is aponially approved. Cathodic Protection Commentation C. GROUNDWATER MONITORING WELLS Water Supply Well Destruction Monitoring Well T FROTOSED WATER SUPPLY WELL USE INCLUDING PIEZOMETERS 1. Minimum surface seal dileteress is two indies of coment grout placed by tremic. Replacement Domestic 2.Minimum scal depth for monitoring wells is the New Domestic ľ Imigation maximum dopth practicable or 20 feet. Municipal c Other Industrial D. GEOTECHNICAL Backfill bore hole by cremic with coment grout or coment grout/sand mixture. Upper two-three feet replaced in kind DRILLING METHOD: Air Rottry Auger or with compacted cuttings. Mud Rotary Other Cable E. CATHODIC Fill hole anode zone with concrete placed by secole. DRILLER'S NAME. F. WELL DESTRUCTION Send a map of work sine. A separate permit is required DRILLER'S LICENSE NO. for wolls deeper than 45 foot. SPECIAL CONDITIONS NOTE: One application must be submitted for each well or well Maximum 20n WELL PROJECTS 92 /4 Jn. Drill Hale Diameter destruction, Mulciple burings on one application are socceptable Casing Dismotor for geometrical and concumination investigations. Owner's Well Number 451 Spriace Soul Depth - 12 12 GEOTECHNICAL PROJECTS Maximum Number of Borings Depth Roje Dianteter 57304 STARTING DATE 5 COMPLETION DATE APPROVED I hereby agree to comply with all fautent APPLICANT'S SIGNAT Rov.9-18-02 PLEASS PRINT NAME P



ALAMEDA COUNTY PUBLIC WORKS AGENCY WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD, CA. 94544-1395 PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W04-0541

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE MW#3-GENERAL, CONDITIONS: Vapor and Extraction wells

- 1) 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.
- 2) The minimum surface seal thickness two inches of cement grout placed by tremie.
- 3) All monitoring wells shall have a minimum surface cement seal depth of five (5) feet, approved seal depth or the maximum depth practicable or twenty (20) feet.
- 4) 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.
- 5) 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 wok is being completed.
- 6) No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.
- 7) Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Permit is valid from May 17-May 19, 2003. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 8) Compliance with the above well-scaling specifications shall not exempt the well-scaling contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 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.
- 9) 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.

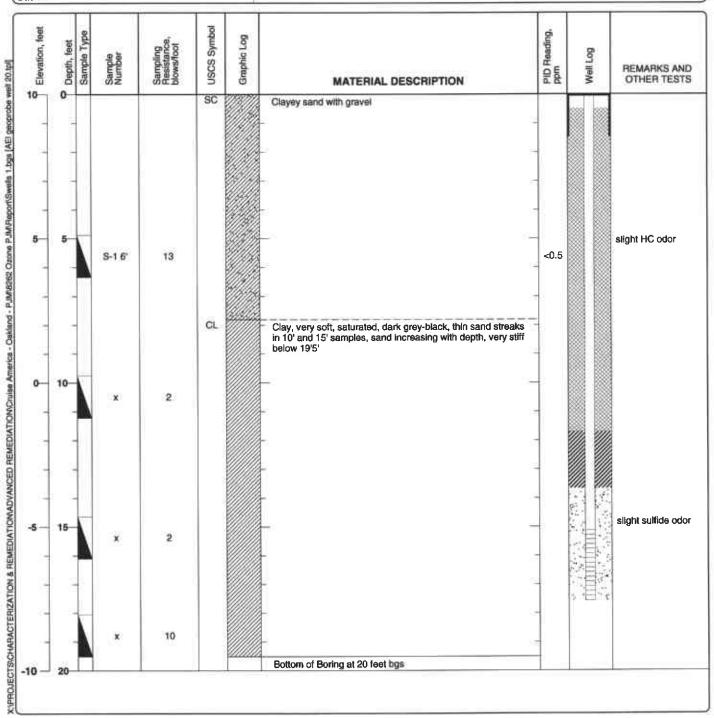
APPENDIX B BORING / WELL LOGS

Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-1

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 20 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

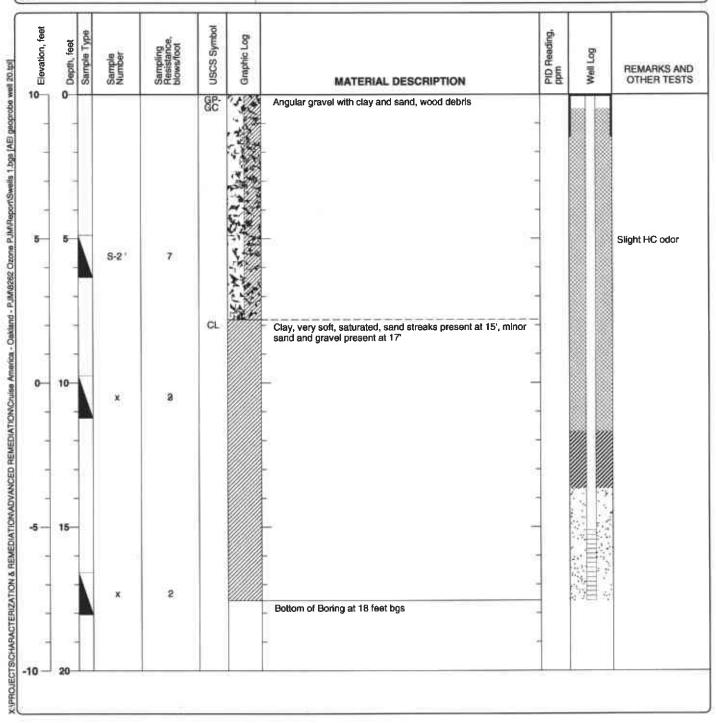


Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-2

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

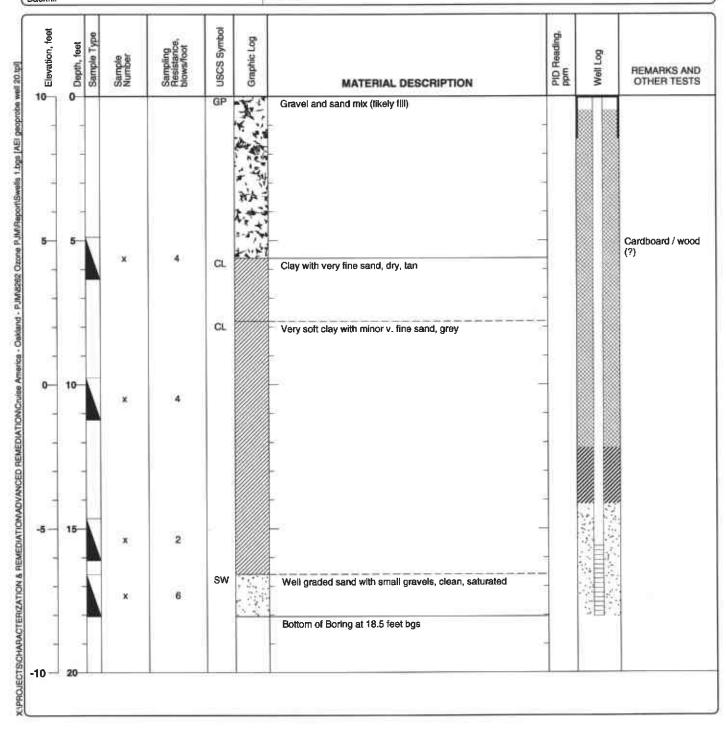


Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-3

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18.5 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

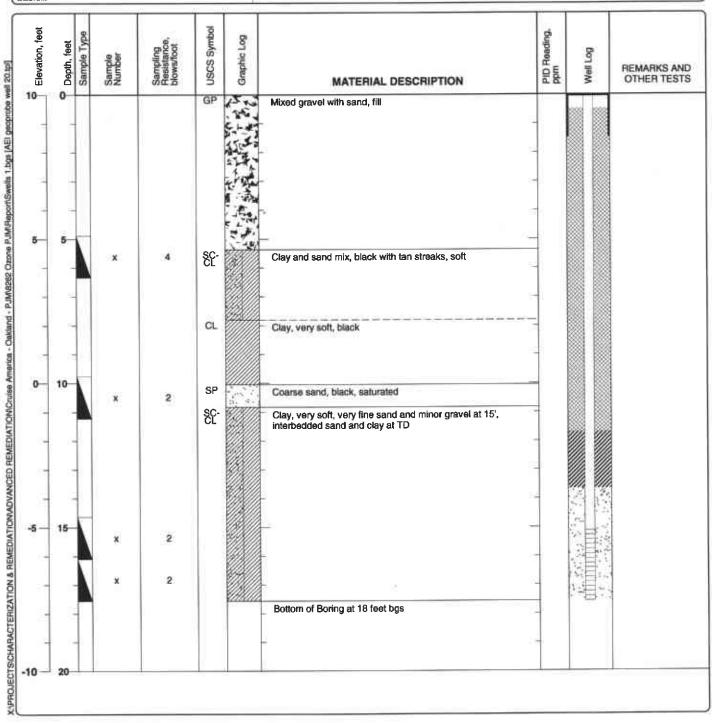


Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-4

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

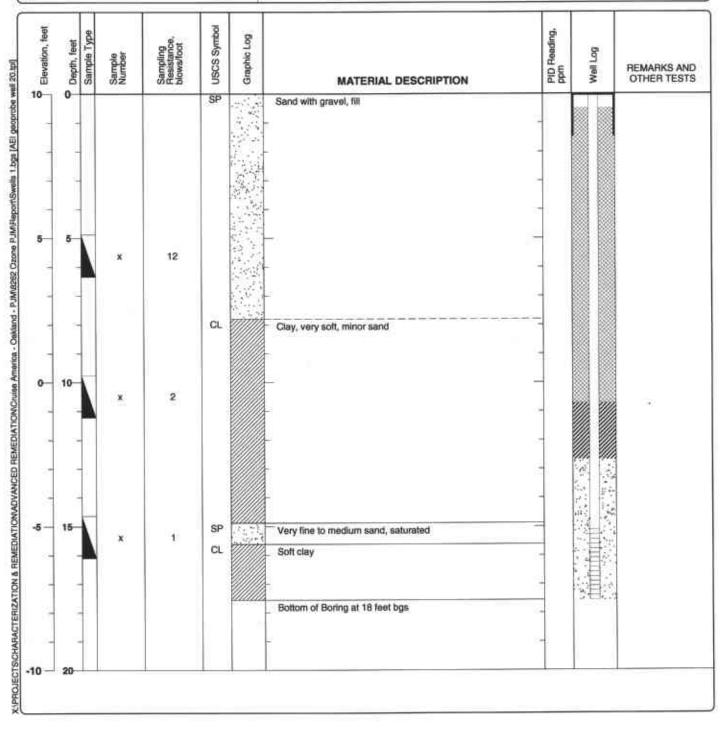


Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-5

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

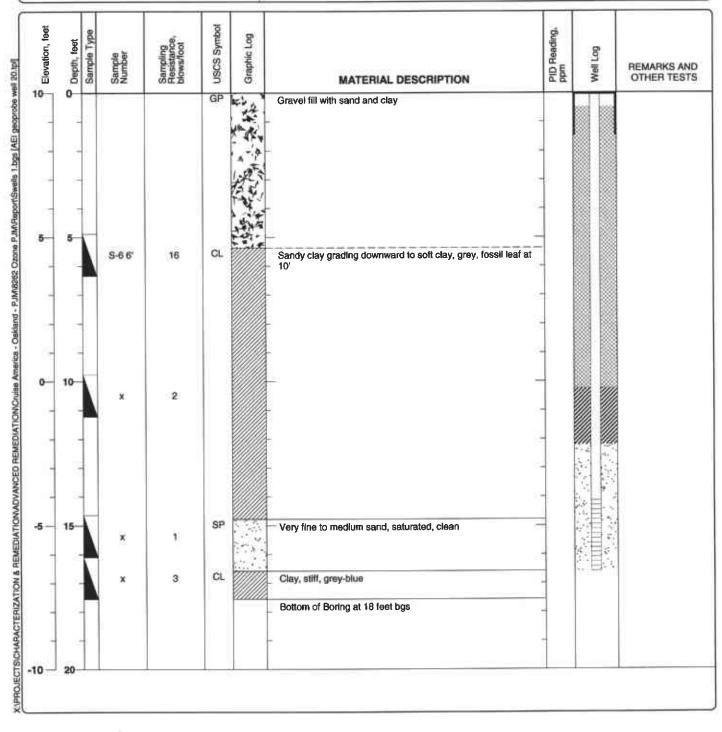


Project Location: 796 66th Avenue, Oakland

Project Number: 8262

Log of Boring S-6

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory	
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs	
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL	
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data		
Borehole Backfill	Location		

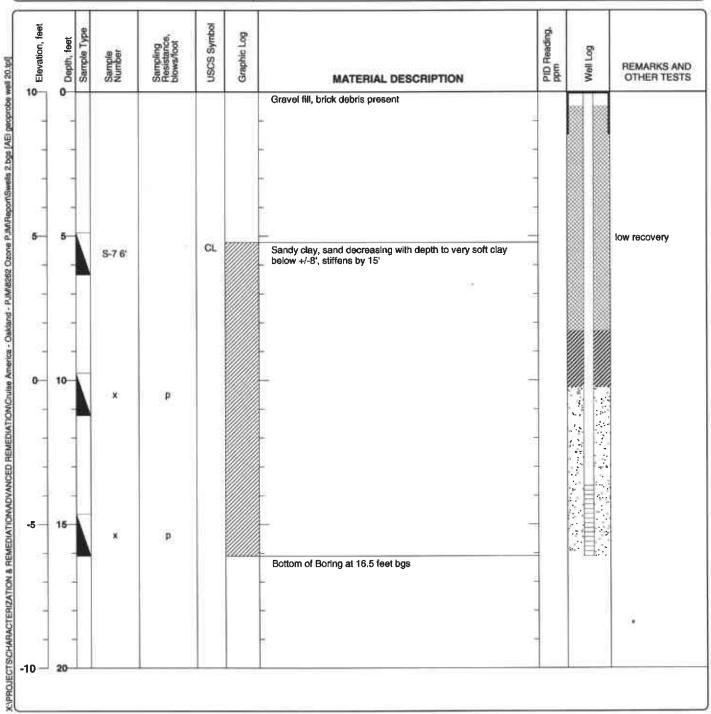


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-7

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Total Depth of Borehole 16.5 feet bgs	
Drill Rig Type CME 75	Drilling Contractor HEW Approximate Surface Elevation 10 feet MSL	
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data	
Borehole Backfill	Location	

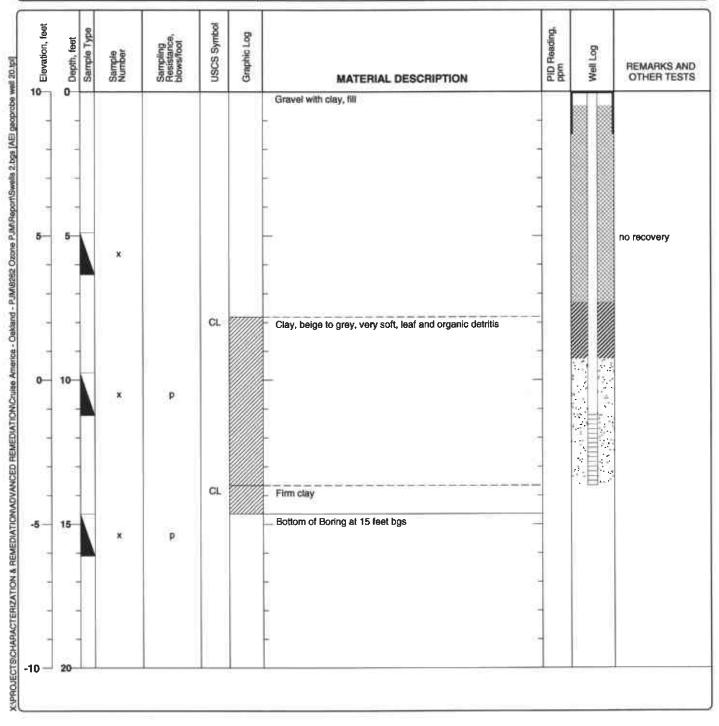


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-8

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory	
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 15 feet bgs	
Drill Rig Type CME 75	Drilling Contractor HEW Approximate Surface Elevation 10 feet MSL		
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data		
Borehole Backfill	Location		

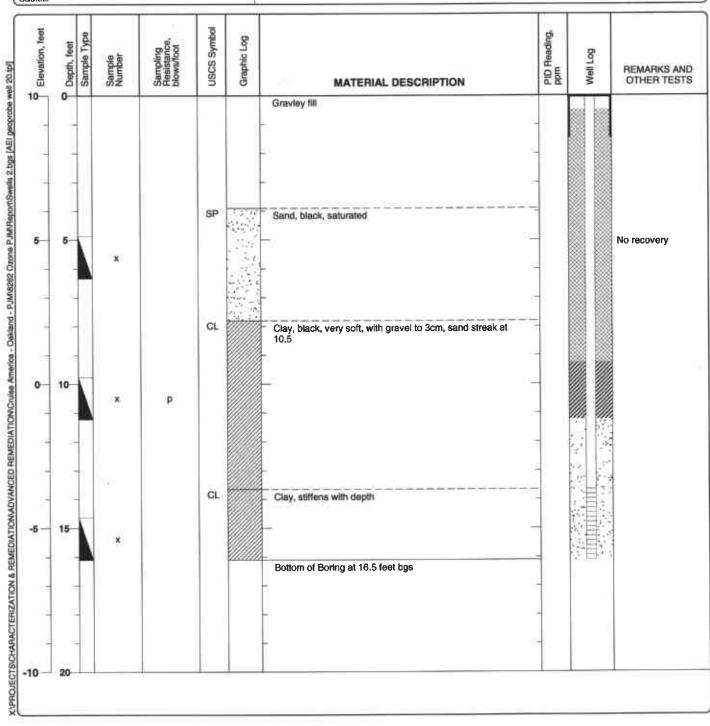


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-9

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory		
Drilling Method Hollow Stem Auger	Drill 8lt Size/Type	Total Depth of Borehole 16.5 feet bgs		ill Bit Total Depth of Borehole 16.5 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL		
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data			
Borehole Backfill	Location			

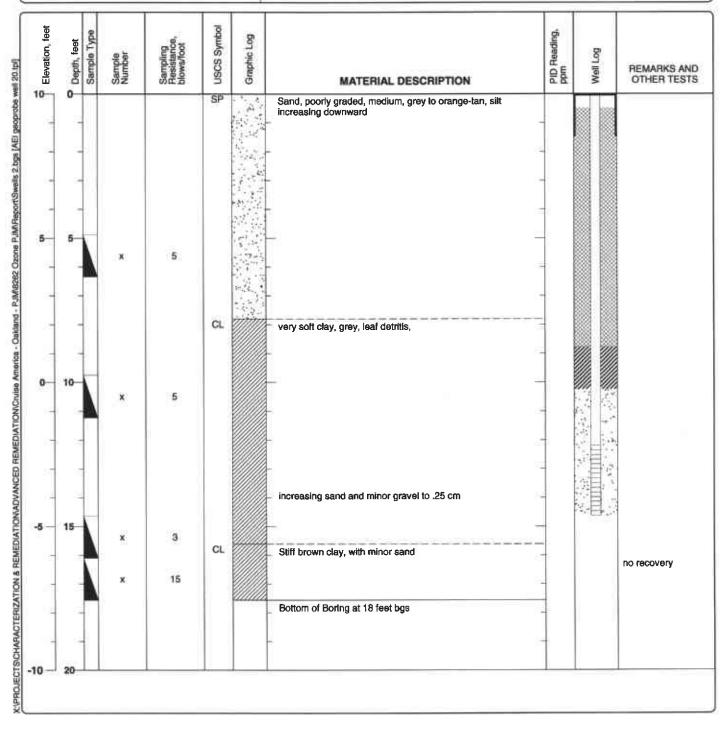


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-10

Dale(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory	
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs	
Orill Rig Type CME 75	Drilling Contractor HEW Approximate Surface Elevation 10 feet MSL		
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data		
Borehole Backfill	Location		

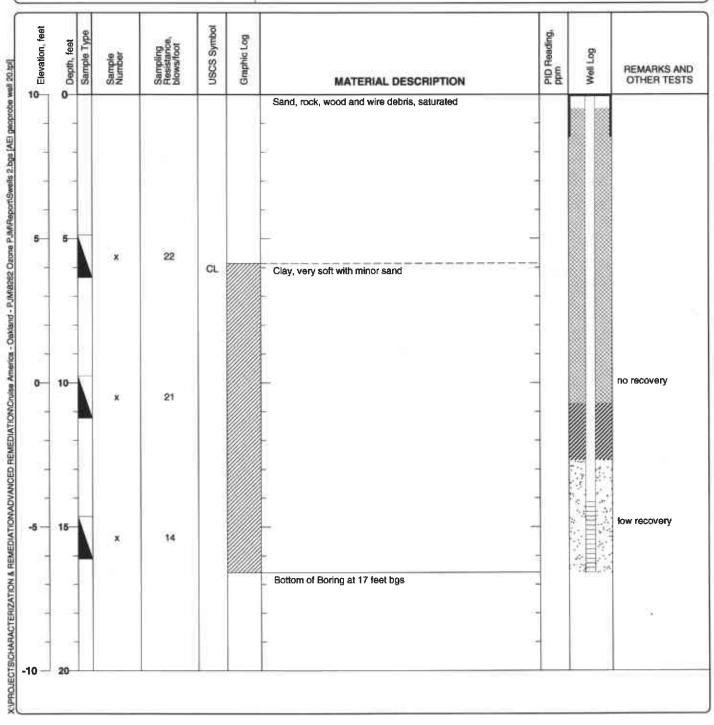


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-11

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory		
Drilling Method Hollow Stem Auger	Drill Bit Total Depth of Borehole 17 feet bgs			
Drill Rig Type CME 75	Drilling Contractor HEW Approximate Surface Elevation 10 feet MSL			
Groundwater Level and Date Measured	Sampling Hammer Method(s) California Data			
Borehole Backfill	Location	Location		

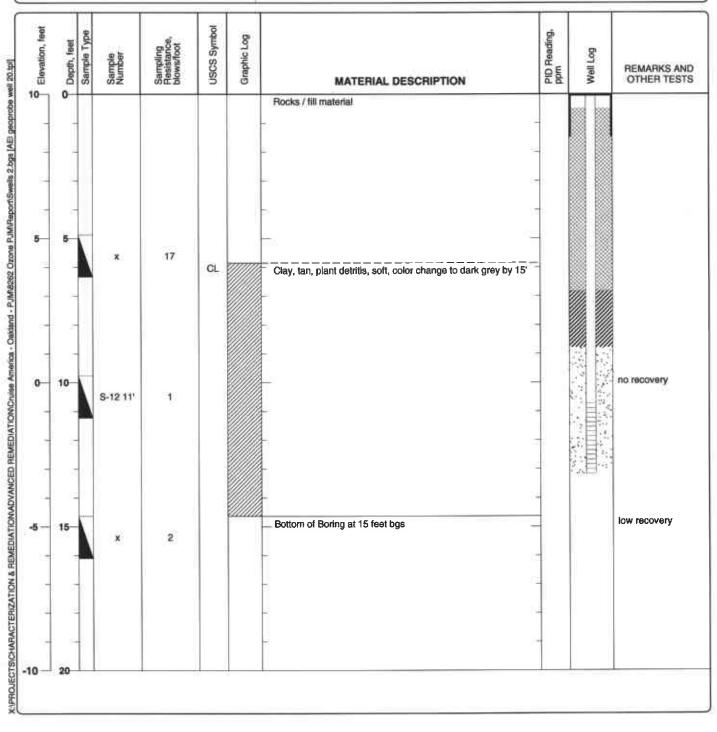


Project Location: 796 66th Avenue

Project Number: 8262

Log of Boring S-12

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory		
Drilling Method Hollow Stem Auger	Orill Bit Size/Type Total Depth of Borehole 15 feet bgs			
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL		
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data		
Borehole Backfill	Location	Location		



APPENDIX C WELL SAMPLING FORMS

Monitoring Well Number:

MW-1

Project Name:	Cruise America	Date of Sampling: 1/11/2005
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONTORIN	
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	4.69
Water Elevation (feet above msl)	6.19
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	18.2
Actual Volume Purged (gallons)	20.0
Appearance of Purge Water	Initially grey, clears at 3 gallons
Free Product Present	? Thickness (ft): light sheen

""		6	iounew?	Tersamel	FS P	學學學	事。[1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
Number of Samples/Container Size				4 40-ml VOA vials			
Time	Vol Removed (gal)	Temperature (deg C)	pН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	20.70	-	5022	0.02		
	6	20.36	•	3992	0.01	··	
	9	20.25	-	3825	0.01		
	12	20.24	<u>-</u>	3808	0.01		
	15	20.25	-	3822	0.01		
	18	20.23	-	3809	0.01		
	20	20.22	-	3807	0.01		

Initially grey with hydrocarbon odors.	Clears at 3 gallons. Light sheer	noted in initial 0.5 gallons.	
		e de la companya de	

Monitoring Well Number:

MW-2

Project Name:	Cruise America	Date of Sampling: 1/11/2005
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

WE THE WORLD STATE OF THE STATE	YEW: A MORNEY STATE OF THE PARTY OF THE PART
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	10.77
Depth of Well	14.00
Depth to Water (from top of casing)	7.27
Water Elevation (feet above msl)	3.50
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	3.3
Actual Volume Purged (gallons)	4.0
Appearance of Purge Water	Yellow
Free Product Present?	t? No Thickness (ft): na

Number of Samples/Container Size			4 40-ml VOA vials				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
· ·	2	19.25	6.99	19289	0.03		
	4	20.15	6.97	20253	0.31		

Yellow with no hydrocarb	on odors.		

Monitoring Well Number:

MW-3

Project Name:	Cruise America	Date of Sampling: 1/11/2005
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

AL MONITORING	CW:FF以外,
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	ОК
Elevation of Top of Casing (feet above msl)	10.20
Depth of Well	14.00
Depth to Water (from top of casing)	5.21
Water Elevation (feet above msl)	4.99
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Yellow
Free Product Present?	No Thickness (ft): na

Number of Samples/Container Size			4 40-ml VOA vials				
Time	Vol Removed (gal)	Temperature (deg C)	рH	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.58	6.95	16619	0.03		
	4	20.23	6.84	17049	0.02	. <u> </u>	
	6	20.55	6.71	17969	0.07		

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Yellow with no hydrocarbon odors.

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 1/11/2005
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

THE THE PROPERTY OF THE PROPER	GWELLDAYA TAN MENER THE MENER TO THE PROPERTY OF THE PROPERTY
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK ▼
Elevation of Top of Casing (feet above msl)	11.07
Depth of Well	14.00
Depth to Water (from top of casing)	4.99
Water Elevation (feet above msl)	6.08
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.3
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Initially dark, clears at 2 gallons
Free Product Present	No Thickness (ft): na

Number of Samples/Container Size		4 40-ml VOA vials					
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.60		1410	0.28		
	4	18.48		1392	0.03		
<u> </u>	6	18.40		1449	0.01		
							

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Initially dark with strong hydrocarbon odors. Clears at 2 gallons.

Monitoring Well Number: M

MW-5

Project Name:	Cruise America	Date of Sampling: 1/11/2005
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONITORIN	enviolable)	
Well Casing Diameter (2"/4"/6")		2
Wellhead Condition	ОК	<u> </u>
Elevation of Top of Casing (feet above msl)		11.18
Depth of Well		14.00
Depth to Water (from top of casing)		5.08
Water Elevation (feet above msl)		6.10
Well Volumes Purged		3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		4.3
Actual Volume Purged (gallons)		6.0
Appearance of Purge Water		Initially dark, clears at 1 gal.
Free Product Present?	No	Thickness (ft): na

Number of Samples/Container Size			4 40-ml VOA vials				
Time	Vol Removed (gal)	Temperature (deg C)	pН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.17	6.66	6759	0.03		·
	4	18.30	6.80	5180	0.01		<u>.</u>
	6	18.24	6.85	4889	0.01		

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)							
Initially dark with strong hydrocarbon odors. Clears at 1 gallons.							

Monitoring Well Number:

MW-1

Project Name:	Cruise America	Date of Sampling: 10/13/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

Menisorin	G WEIT DATA WE WE SEE WHITE WEITH W
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	5.23
Water Elevation (feet above msl)	5.65
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	17.1
Actual Volume Purged (gallons)	20.0
Appearance of Purge Water	Initially dark, clears at 1.5 gal.
Free Product Present	Thickness (ft):

	"哪""事""事"		-15(6)()(\(\frac{1}{2}\)\\\\	y Egyasampe			此時,自己學學學
Number of Sampl	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
<u> </u>	3	24.34	7.02	4480	3.26		
	6	24.52	6.97	4340	2.20		
	9	24.59	6.95	4160	1.70		
	12	24.61	6.94	4130	1.53		
	15	24.62	6.93	4110	1.42		· · · · · · · · · · · · · · · · · · ·
	18	24.61	6.92	4100	4.38		

Initially dark with strong hydrocarbon odors. Clears at 1.5 gallons.	

Monitoring Well Number:

MW-2

Project Name:	Cruise America	Date of Sampling: 10/13/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

THE MONITORIN	C WHE KNAME IN THE PARTY OF THE				
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	ok				
Elevation of Top of Casing (feet above msl)	10.77				
Depth of Well	14.00				
Depth to Water (from top of casing)	7.18				
Water Elevation (feet above msl)	3.59				
Well Volumes Purged	3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	3.3				
Actual Volume Purged (gallons)	4.0				
Appearance of Purge Water	Yellow				
Free Product Present?	No Thickness (ft): na				

				vials			
Time Vol Removed Temperature pH (gal) (deg C)				DO (mg/L)	ORP (meV)	Comments	
2	24.21	7.09	21300	5.62			
4	23.07	7.12	21400	4.12			
			d da 1 m		* .		
	(gal)	(gal) (deg C) 2 24.21	(gal) (deg C) PH 2 24.21 7.09	(gal) (deg C) μS/cm) (μS/cm) 2 24.21 7.09 21300	(gal) (deg C) μS/cm) (mg/L) 2 24.21 7.09 21300 5.62	(gal) (deg C) μS/cm) (mg/L) (meV) 2 24.21 7.09 21300 5.62	

	COMMENTS (i.e., sample odor, well recharge time & percent, etc.)								
Yellow with no	hydrocarbon o	dors.							!
									

Monitoring Well Number: MW-3

Project Name:	Cruise America	Date of Sampling: 10/13/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONITORIN	
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	10.20
Depth of Well	14.00
Depth to Water (from top of casing)	4.45
Water Elevation (feet above msl)	5.75
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.6
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Yellow
Free Product Present	nt? No Thickness (ft): na

			istelillielwy		FS" F		House Pelicipens of
Number of Sampl	es/Container S	Size		4 40-ml VOA	vials		
Time	pΗ	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments		
	2	24.01	6.77	17800	5.97		
	4	22.61	6.72	18500	4.49		-
	6	22.54	6.83	18800	5.46		

Yellow with no hydrocarbon odors.

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 10/13/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

WILLIAM TO THE TOTAL MONEGORN	
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	11.07
Depth of Well	14.00
Depth to Water (from top of casing)	5.35
Water Elevation (feet above msl)	5.72
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Initially dak, clears at 2 gallons
Free Product Present?	No Thickness (ft): na

lumber of Sample	s/Container S	ize		4 40-ml VOA vials			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	23.89	-	1030	3.03		
	4	23.93	-	1770	1.77		
	6	23.95	-	1060	1.06		
		•					

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)					
Initially dark with strong hydrocarbon odors.	Clears at 2 gallons.				

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 10/13/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

IN SOUTH ON THE WAR TO SEE THE WAR T	WEILDAIA THE THE STATE OF THE S		
Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition O	K		
Elevation of Top of Casing (feet above msl)	11.18		
Depth of Well	14.00		
Depth to Water (from top of casing)	5.49		
Water Elevation (feet above msl)	5.69		
Well Volumes Purged	3		
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.1		
Actual Volume Purged (gallons)	6.0		
Appearance of Purge Water	Initially dark, light grey at 2 gal., clears at 2.5 gal.		
Free Product Present?	No Thickness (ft): na		

Number of Sample	ereier (leive).	ATER SAMPLES 4 40-ml VOA vials					
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	24.79	7.51	5350	3.36		
	4	24.85	7.31	4880	2.29		
	6	24.88	7.28	4700	1.95		
	<u> </u>						
<u> </u>							

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)
Initially dark with strong hydrocarbon odors. Light grey at 2 gallons, clears at 2.5 gallons.

Monitoring Well Number: MW-1

		D
Project Name:	Cruise America	Date of Sampling: 9/3/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

NET THE STATE OF THE MONITORIN	GINE IL DATANCE E TE MINISTER EN LE TURE DE LE TRANSPORTE
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	5.22
Water Elevation (feet above msl)	5.66
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	17.1
Actual Volume Purged (gallons)	18.0
Appearance of Purge Water	Initially dark, clears at 3 gal.
Free Product Present	? Thickness (ft): light sheen

		BINE G	ROUNDWA	alegyekaniba	-8 神 海崎	間重編	编译(连续),是
Number of Sampl	es/Container S	Size		4 40-ml VOA v	/ials		V 2
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	23.13	-	4929	0.16		
	6	23.88	-	4023	0.71		
	9	24.03	_	3892	0.55		
	12	24.09	-	3877	0.45		
	15	24.12	-	3876	0.36		
	18	24.13	-	3866	0.31		
	21	24.12	-	3868	0.26		

<u> </u>	mission friest considera a mast		·
Initially dark with strong hydro	carbon odors. Clears at 3 gall	lons.	 <u></u>

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 9/3/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONITORIN	NE WELL DAIA		
Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	11.07		
Depth of Well	14.00		
Depth to Water (from top of casing)	5.35		
Water Elevation (feet above msl)	5.72		
Well Volumes Purged	3		
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water	Initially dark, clears at 3 gallons		
Free Product Present	t? No Thickness (ft): na		

Number of Samples/Container Size			4 40-ml VOA vials				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	23.66	•	1313	0.26		
	4	23.85	-	1335	0.17		
	6	23.90	-	1322	0.15		
	8	23.92	14	1308	0.08		

Initially dark with strong hydrocarbon odors. Clea	ars at 3 gallons.

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 9/3/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

NO TOUR OF THE PROPERTY OF THE	GWELDAIA COMPANY AND
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	11.18
Depth of Well	14.00
Depth to Water (from top of casing)	5.48
Water Elevation (feet above msl)	5.70
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.1
Actual Volume Purged (gallons)	8.0
Appearance of Purge Water	Dark
Free Product Present	? No Thickness (ft): na

	A 1.5	Number of Samples/Container Size			4 40-ml VOA vials			
Time	/ol Removed (gal)	Temperature (deg C)	рH	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments	
	2	25.31	-	4346	0.37			
	4	25.43	-	4265	0.30			
	6	25.59	-	4200	0.20			
	8	25.66	-	4168	0.15			

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Dark with strong hydrocarbon odors.

Monitoring Well Number: MW-1

Project Name:	Cruise America	Date of Sampling: 8/20/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

WONITORN CONTROL OF THE PROPERTY OF THE PROPER	GWILLDAM THE THE THE THE
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	OK ▼
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	5.31
Water Elevation (feet above msl)	5.57
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	16.9
Actual Volume Purged (gallons)	18.0
Appearance of Purge Water	Initially grey, clears quickly
Free Product Present	Thickness (ft): light sheen

Number of Sample	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
<u></u>	3	23.61	7.22	3998	0.38		
	6	23.63	7.24	4045	0.27	<u>.</u>	
	9	23.60	7.35	4085	0.24		
	12	23.62	7.34	4128	0.23		
	15	23.59	7.34	4136	0.23		
	18	23.59	7.33	4129	0.22		
	10	20.00					

Initially light grey with strong hydrocarbon odors.	Clears quickly	

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 8/20/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

	GWELDDALA DE LEESTER DE LES DE LE LEESTER DE LE LE LEESTER DE LE LEESTER DE LE LE LEESTER DE LE
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK
Elevation of Top of Casing (feet above msl)	11.07
Depth of Well	14.00
Depth to Water (from top of casing)	5.37
Water Elevation (feet above msl)	5.70
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.1
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Initially dark, clears at 3 gallons
Free Product Present	? No Thickness (ft): na

OF THE STATE OF TH			TER SAMPLES 4 40-ml VOA vials				
Time	Vol Removed (gal)		рH	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	22.74	-	1301	0.11		
	4	23.30	8.08	1246	0.04		
	6	23.46	8.10	1224	0.03		
A 2 - MA-A 2 -							
			!				
]						

Initially dark with strong hydrocarbon odors.	Clears at 3 gallons.	
,		· · · · · · · · · · · · · · · · · · ·
	·	

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 8/20/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

THE REPORT OF THE PARTY OF THE	EWELDATA CONTROL OF THE SECOND
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	ок
Elevation of Top of Casing (feet above msl)	11.18
Depth of Well	14.00
Depth to Water (from top of casing)	5.49
Water Elevation (feet above msl)	5.69
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.1
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Initially dark, clears quickly
Free Product Present?	No Thickness (ft): na

		() () ()	KOUNDY/A	TERSAMPL	ES - 1919	學學學不可以	
Number of Samples/Container Size		4 40-ml VOA vials					
Time	Vol Removed (gal)	Temperature (deg C)	pΗ	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	24.12	7.97	6619	0.20		
	4	24.78	7.81	5467	0.13		
	6	25.17	7.82	4776	80.0		

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Initially dark with strong hydrocarbon odors. Clears quickly.

Monitoring Well Number:

MW-1

Project Name:	Cruise America	Date of Sampling: 8/6/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONTORIN	GWEEDAYA PARAMENTAL THE TRANSPORTER
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	ОК
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	5.13
Water Elevation (feet above msl)	5.75
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	17.3
Actual Volume Purged (gallons)	18.0
Appearance of Purge Water	Initially grey, clears at 3.5 gal.
Free Product Present	Thickness (ft): light sheen

The second second		FFF G	ROUNDY	TERSAMZ	ES 撇『春』		特別學學 智慧 是
Number of Sampl	Number of Samples/Container Size			4 40-ml VOA vials			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	23.16	-	4198	0.57		
	6	23.39	-	3904	0.57		
	9	23.44	7.80	3864	0.56		
	12	23.54	7.12	3850	0.56		
	15	23.54	7.19	3857	0.56	· .	
	18	23.55	7.14	3848	0.55		

Initially grey with strong hydrocarbon odor present. Clears at 3.5 gallons.	
	-

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 8/6/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

TO MONEORIN	きが自己的の人が発展を		等 制。研究区别
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)		11.07	
Depth of Well		14.00	
Depth to Water (from top of casing)		5.20	
Water Elevation (feet above msl)		5.87	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		4.2	
Actual Volume Purged (gallons)		6.0	
Appearance of Purge Water	Initialy dark, light	dark at 2.5 gal., clears	at 4.5 gal.
Free Product Present	No	Thickness (ft):	na

Comments

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)
Initially dark with strong hydrocarbon odors. Light dark at 2.5 gallons, clears at 4.5 gallons.

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 8/6/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

THE COLUMN TO THE REPORT OF THE PROPERTY OF TH	GWELLDAYA LA SELECTION OF THE SELECTION
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	ОК
Elevation of Top of Casing (feet above msl)	11.18
Depth of Well	14.00
Depth to Water (from top of casing)	5.33
Water Elevation (feet above msl)	5.85
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	clears at 3 gallons
Free Product Present	No Thickness (ft): na

Number of Sample	es/Container S			4 40-ml VOA			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
and the same of th	2	23.49	_	4879	0.53		
	4	24.60	-	4362	0.52		
	6	24.72	_	4209	0.51	<u>.</u>	
		74. 44.74.					

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Water dark and strong hydrocarbon odor present

Monitoring Well Number:

MW-1

Project Name:	Cruise America	Date of Sampling: 7/19/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

FINE MONIGRIN	
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition	ok <u>▼</u>
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	5.12
Water Elevation (feet above msl)	5.76
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	17.3
Actual Volume Purged (gallons)	18.0
Appearance of Purge Water	Initially grey, clears at 2 gallons
Free Product Present?	Thickness (ft): light sheen

itainer S emoved	the state of		4 40-ml VOA	vials		i
emoved		1 to				
jal)	Temperature (deg C)	рH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
3	22.37	7.27	4097	0.06	-378.7	
6	22.74	7.15	3924	0.05	-394.1	
9	22.80	7.07	3872	0.05	-399.8	
12	22.86	7.02	3840	0.05	-405.2	
15	22.85	6.98	3819	0.05	-409.4	
18	22.86	6.99	3838	0.05	-411.4	
	3 6 9 12	gal) (deg C) 3 22.37 6 22.74 9 22.80 12 22.86 15 22.85	gal) (deg C) ph 3 22.37 7.27 6 22.74 7.15 9 22.80 7.07 12 22.86 7.02 15 22.85 6.98	gal) (deg C) pH (μS/cm) 3 22.37 7.27 4097 6 22.74 7.15 3924 9 22.80 7.07 3872 12 22.86 7.02 3840 15 22.85 6.98 3819	gal) (deg C) pH (μS/cm) (mg/L) 3 22.37 7.27 4097 0.06 6 22.74 7.15 3924 0.05 9 22.80 7.07 3872 0.05 12 22.86 7.02 3840 0.05 15 22.85 6.98 3819 0.05	gal) (deg C) pH (μS/cm) (mg/L) (meV) 3 22.37 7.27 4097 0.06 -378.7 6 22.74 7.15 3924 0.05 -394.1 9 22.80 7.07 3872 0.05 -399.8 12 22.86 7.02 3840 0.05 -405.2 15 22.85 6.98 3819 0.05 -409.4

Initially grey with strong hydrocarbon odors. Clears at 2 gallons.			· · · · · · · · · · · · · · · · · · ·
	_		
		_	

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 7/19/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

INCHEMIA E SINGE E MANAGRIN	eavjeikim		4.144.1.3
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	OK	-	<u> </u>
Elevation of Top of Casing (feet above msl)		11.07	
Depth of Well		14.00	
Depth to Water (from top of casing)		5.19	
Water Elevation (feet above msl)		5.88	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		4.2	
Actual Volume Purged (gallons)	-	6.0	
Appearance of Purge Water		claers up quickly	
Free Product Present?	No	Thickness (ft):	na

Number of Sampl	es/Container S	Size		4 40-ml VOA v	/ials		
Time	Vol Removed (gal)	Temperature (deg C)	рĦ	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
<u></u>	2	22.24	-	2124	0.35	-273.9	
	4	23.14	6.65	1978	0.55	-284.8	
	6	23.26	6.77	1961	0.58	-285.6	
· · · · · · · · · · · · · · · · · · ·					<u></u>		

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)						
dark and strong hydrocarbon odor present						
	1 CT 1					

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 7/19/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

PERSON PROBLEM SERVICE MONITORING	IC WIE LEDAVA SURFACE DE LE LA LEGACIONE
Well Casing Diameter (2"/4"/6")	2
Wellhead Condition	OK ▼
Elevation of Top of Casing (feet above msl)	11.18
Depth of Well	14.00
Depth to Water (from top of casing)	5.32
Water Elevation (feet above msl)	5.86
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	clears at 2 gallons
Free Product Present?	? No Thickness (ft): na

		G	FOUNDWA	VIERSAMPI	ES E	Negri Marin	響小器別條制心理
Number of Sampl	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	pΗ	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	23.49	7.56	4871	0.08	-222.3	· .
	4	23.88	7.26	4343	0.07	-255.9	
	6	23.99	7.16	4071	0,07	-271.8	
· · · · · · · · · · · · · · · · · · ·							

COMMENTS (i.e., sample odor, well r	echarge time & percent, etc.)
dark and strong hydrocarbon odor present	
	to the second se
·	· · · · · · · · · · · · · · · · · · ·

Monitoring Well Number:

MW-1

Project Name:	Cruise America	Date of Sampling: 7/7/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONITORINGW:	ELLIDANA TERRETARIAN MARINENIA
Well Casing Diameter (2"/4"/6")	4
Wellhead Condition OK	▼
Elevation of Top of Casing (feet above msl)	10.88
Depth of Well	14.00
Depth to Water (from top of casing)	4.97
Water Elevation (feet above msl)	5.91
Well Volumes Purged	3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	17.6
Actual Volume Purged (gallons)	18.0
Appearance of Purge Water	clears at 1.5 gallons
Free Product Present?	Thickness (ft):

Number of Sample				TER SAMPL 4 40-ml VOA		動儀物	量少和 医迷声性
Time	Vol Removed (gal)		pH	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	3	22.07	6.41	4688	0.04	14.47 -	
	6	22.41	7.66	4181	0.04	-	
	9	22.49	7.39	4039	0.04	_	400.0
	12	22.53	7.22	4036	0.04	. 4	
	15	22.67	7.06	3993	0.17	-	
	18	22.59	7.01	4020	0.24	<u></u>	

Grey and strong hydrocarbon odor present, sheen noted.	

Monitoring Well Number: MW-2

Project Name:	Cruise America	Market Services	Date of Sampling:	7/7/2004
Job Number:	5526	690 1 4 4 4	Name of Sampler:	A Nieto
Project Address:	796 66th Avenue, Oakland			

THE THE THE PROPERTY OF THE PR	envialit		Janes, Hill
Well Casing Diameter (2"/4"/6")		2	· · · · · · · · · · · · · · · · · · ·
Wellhead Condition	ОК		▼
Elevation of Top of Casing (feet above msl)		10.77	
Depth of Well		14.00	
Depth to Water (from top of casing)		6.83	
Water Elevation (feet above msl)	:	3.94	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		3.4	
Actual Volume Purged (gallons)		5.0	
Appearance of Purge Water		clear	
Free Product Present?	No	Thickness (ft):	na

Number of Samples/Container Size			TER SAMPLES 4 40-ml VOA vials				
Time	Vol Removed (gal)		рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
<u> </u>	1	21.28	-	17824	0.25	-	
	3	22.48	-	16382	0.1		
	5	20.96	-	18333	0.43	-	
		٠.					
						•	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

No hydrocarbon odor noted (8 minutes to completly recharge)

Monitoring Well Number: MW-3

Project Name:	Cruise America	Date of Sampling: 7/7/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

MONITORIN	US NEED DATA" "ELLING HELLING	
Well Casing Diameter (2"/4"/6")	2	
Wellhead Condition	ОК	▼
Elevation of Top of Casing (feet above msl)	10.20	
Depth of Well	14.00	
Depth to Water (from top of casing)	3.76	
Water Elevation (feet above msl)	6.44	
Well Volumes Purged	3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.9	
Actual Volume Purged (gallons)	6.0	
Appearance of Purge Water	Light yellow	
Free Product Present	? No Thickness (ft): na	

Number of Samples/Container Size				4 40-ml VOA vials			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	21.08	7.23	14118	0.24		
	4	22.93	6.83	13651	0.32		
	6	20.89	7.05	16679	0.35	-	
				+	-		

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

No hydrocarbon odor noted

Monitoring Well Number:

MW-4

Project Name:	Cruise America	Date of Sampling: 7/7/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

THE MONITORIN	IG WEIL DATA IN THE THE IN THE THE INTERIOR				
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	OK				
Elevation of Top of Casing (feet above msl)	11.07				
Depth of Well	14.00				
Depth to Water (from top of casing)	5.08				
Water Elevation (feet above msl)	5.99				
Well Volumes Purged	3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.3				
Actual Volume Purged (gallons)	6.0				
Appearance of Purge Water	clears at 1,5 gallons				
Free Product Present	? No Thickness (ft): na				

lumber of Samples/Container Size			4 40-ml VOA vials				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
	1	20.99	-	2682	0.05	-	
	3	22.64	-	2047	0.05	•	
	5	22.95	-	2057	0.07	-	
							· · · · · · · · · · · · · · · · · · ·
							<u> </u>

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)							
Show up dark and strong hydrocarbon odor present							

Monitoring Well Number:

MW-5

Project Name:	Cruise America	Date of Sampling: 7/7/2004
Job Number:	5526	Name of Sampler: A Nieto
Project Address:	796 66th Avenue, Oakland	

INFORM THE SAME SAME SAME SAME SAME SAME SAME SAM	e#WEIIIII)		明当四下原业			
Well Casing Diameter (2"/4"/6")		2				
Wellhead Condition	ОК		_			
Elevation of Top of Casing (feet above msl)	11.18					
Depth of Well		14.00				
Depth to Water (from top of casing)		5.19				
Water Elevation (feet above msl)		5.99				
Well Volumes Purged	3					
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.2					
Actual Volume Purged (gallons)	5.0					
Appearance of Purge Water	clears at 2 gallons					
Free Product Present?	No Thickness (ft): na					

Number of Samples/Container Size				4 40-ml VOA vials			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
<u> Marija, jedina sa maja manaka karaja da maja karaka karaja da maja maja maja da maja da maja da maja da maja</u>	1	21.39	-	4679	0.44	-	
	3	23.71	7.05	4210	0.55	-	
	5	23.79	7.05	3960	0.55	<u>-</u>	

Water dark and strong hydrocarbon odor present									

APPENDIX D LABORATORY ANALYTICAL REPORTS



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise America	Date Sampled: 05/17/04
2500 Camino Diablo, Ste. #200		Date Received: 05/18/04
W. 1 . G . 1 G . 04607	Client Contact: Peter McIntyre	Date Reported: 05/25/04
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 05/25/04

WorkOrder: 0405285

May 25, 2004

Dear Peter:

Enclosed are:

- 1). the results of 6 analyzed samples from your #8262; Cruise America project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours trul



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise America	Date Sampled: 05/17/04-05/18/04
2500 Camino Diablo, Ste. #200		Date Received: 05/18/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 05/18/04
Wallut Clock, CA 74377	Client P.O.:	Date Analyzed: 05/19/04-05/21/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	method: SW5030B	-	, ,	Analytical :	methods: SW80211	B/8015Cm		Work (Order: 0	405285
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	S-1 6'	S	ND	ND	ND	ND	ND	ND	1	92.6
002A	S-2 6'	S	31,a	2.7	0.035	0.32	0.082	0.27	1	82.8
003A	S-5 6'	S	1.2,a	2.1	ND	0.014	ND	0.020	1	82.7
004A	S-6 6'	S	360,a,g	ND<3.5	0.61	1.8	5.0	5.2	20	92.6
005A	S-12 11'	s	ND	1.1	ND	ND	ND	ND	1	87.4
006A	S-7 6'	s	3.8,g,m	2.0	ND	0.016	ND	ND	1	81.5
									•	
										
			···			1				
		†								
	Control of the Contro									
										
+										
		<u> </u>								<u> </u>
	g Limit for DF =1; s not detected at or	W	NA	NA	NA	NA	NA	NA	l	ug/L
	he reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

Į	* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples	ples in mg/kg, wipe samples in µg/wipe,
	product/oil/non-aqueous liquid samples in mg/L.	

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~I vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

OC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0405285

EPA Method: SW80	021B/8015Cm E	3	BatchID:	11591	Spiked Sample ID: 0405303-006A						
· · · · · · · · · · · · · · · · · · ·	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(btex) [£]	ND	0.60	102	99.4	2.14	101	103	2.01	70	130	
МТВЕ	ND	0.10	107	103	3.33	108	101	6.16	70	130	
Benzene	ND	0.10	110	109	0.765	113	107	5.45	70	130	
Toluene	ND	0.10	93	92.5	0.532	95.3	91	4.70	70	130	
Ethylbenzene	ND	0.10	113	107	5.91	114	111	2.36	70	130	
Xylenes	ND	0.30	100	100	0	103	100	3.28	70	130	
%SS:	84.9	0.10	104	98	5.94	87.1	82.8	5.06	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page I of I

WorkOrder: 0405285

ClientID: AEL

Report to:

Peter McIntyre

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 TEL:

(925) 283-6000

FAX: (925) 283-6121 ProjectNo: #8262; Cruise America

PO:

Bill to:

Requested TAT:

5 days

Lesliegh Alderman

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Date Received:

5/18/04

Walnut Creek, CA 94597

Date Printed:

5/18/04

																1 7 575500		5/10/	
					Requested Tests (See legend below)														
Sample ID	ClientSampID	Matrix	Collection Date	Hold	11	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0405285-001	S-1 6'	Soil	5/17/04 8:25:00 AM		A	<u> </u>	1	-		- 1		1		T	1	1	Т		
0405285-002	S-2 6'	Soil	5/17/04		A	-	 -	+						-				+	+
0405285-003	S-5 6'	Soil	5/17/04		Α						1						 	1	
0405285-004	S-6 6'	Soil	5/17/04		Α			+		-				1	 		 -	-	+
0405285-005	S-12 11'	Soil	5/18/04		A		†			1				· · · · · · · · · · · · · · · · · · ·					
0405285-006	S-7 6'	Soil	5/18/04		Α		İ				+				-		<u> </u>		+

Test Legend:

1 G-MBTEX_S	2	3	4	5	
6	7	8	9	10	
11	12	13	14	15	

Prepared by: Melissa Valles

Comments:

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.

McCAMPBELL ANALYTICAL INC.											(CH	A]	IN	O)	F (CU	ST	O			Œ			D		/						
		110 2nd AV	VENUE SC CO, CA 945]	ΓUΊ	RN	AR	O	JNI	T (IN	Œ												X
Telephor	ne: (925) 798		, CA)-1.	305-051		ax:	(925	798	3-16	22				ra es	D	•	JO.	-		5 7		\	RU	JSH	•	24 F	IR	4	18 H	R	72	2 HR	5 DAY
D 4 T . D 4	eport To: Peter McIntyre Bill To:							╀	DF	Keq	uire		Ana	***	Yes		eef	No.					Other Comn				nents						
Report To: Peter Company: AEI C			ם	om ro	·								十	 			Ī	A DA	173	3 11	240	List					一				寸	V 0.11.	
	Camino Dia	blo. Suite	200		 -		1		3&F																								
	ut Creek, C			E-M	ail:								18		& F/I		Ì						8310					ĺ	ĺ				
Tele: (925) 944-2			F	ax: (94	4-289) 5					8015)/MTBE		& Grease (5520 E&F/B&F)	8.1)				ŀ		ļ	8/0								ı		
Project #:			P	rojec	t Nan	ne:	Ċ,	eqi		#u	ner	car	_]		(\$52	s (41		6					827										
Project Location:	66,44	Ave	, €	1	aug	1] t		ease	pour	-	802		ONLY	1		25/			010					ı		
Sampler Signatur	e: ///a/				,								188		& Gr	TOCAL		202 /		°s o	8		EPA 625 / 8270 /			276							
Tar		SAMP	LING	s	Type Containers		MAT	rd	ζ	M PRE	ETH SER	OD VEL	Gas (602/8020	(8015)	Total Petroleum Oil	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's	EPA 624 / 8240 / 8260		by E	s,		Lead (7240/7421/239.2/6010)							
SAMPLE ID	′			Containers	tair								H as	1 75	leun	lenn	EPA 601 / 8010	7	EPA 608 / 8080	808	824(EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	77.4							
(Field Point Name)	LOCATION	To de	70°	ıta:		L.		يوا				w F	BTEX & TPH	TPH as Diesel	etro	etro	<u>a</u>		/80	80	24 /	25 /	£	17.1	S M	72	i			- 1	I		
		Date	Time	ر ت	ě.	Water	7	Air Sludge	i ë	Ice	DH S	11.0 14.0 14.0	X	H H	tal F	tai F	A 6	Ξ	Αę	A 6	A 6	A 6	ijĮ	Ż.	JFT) Pg	RCI				ł		
	ļ			#	Ę	W	Soil	Sluc	0	η			<u> </u>	F	Ţ	Ĕ	岛	B	臼		面	田	à	Ü	ű	ĭ	Ä			_			·
5-1 6'		3/11/04	3	1	B. 44		×			X			X																				
5-7 6'		7	945	,	1		X			$\overline{\lambda}$			X																				
5-5 6'			203	1			×	\top		\times	7		\times																				
5-6 6'			3 25	 		Ħ	X	+-	1	Ż	Ť		K		-			\neg															
		5/18	143	1	 	 		+				1	C	1					\dashv				\neg										
5-12 11 9-7 6'		1/18	7 00	1	 	-	×		+-	X	-+-	+	\sum	†						_	_									_			•
J-7 6			2		W	_	\vdash		+		-+	+	f	+				1	-	\dashv	\dashv						_				1		
		<u> </u>				 			+	\vdash				╁				-+		\dashv	-					-						-	
						_		-	₩	-	4		-	 					\dashv		-		\dashv	_	-				-				
					<u> </u>	<u> </u>			<u> </u>				_	ļ					_		\dashv												•
·									<u> </u>		\perp		1				_		_	_	_												
					<u> </u>								_ _						_											_			
																															_		
								- h	h																						-		
Religioushed By:	Mes.	Date:	Time:		ived B);	V	U	X			•	T			÷	/				/							OĄS	9	ķG	М	ETALS	OTHER
Relinquished By:	VICIA	Date:	Time:		ived B	ly:								ICE		_ <u>\</u>	, IDT	TION	J	√						OFT.			<i>X</i> _				
and the second s														ABSI		r \				TA				Ç									
Relinquished By:		Date:	Time:	Rece	ived I	· · · · · · · · · · · · · · · · · · ·								TED			B						IN	LAI	3		_						
neimquisite by.			1		Received By:																												



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM	Date Sampled: 07/07/04
2500 Camino Diablo, Ste. #200		Date Received: 07/07/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/13/04
Wunter Crook, Cir 54557	Client P.O.:	Date Completed: 07/13/04

WorkOrder: 0407113

July 13, 2004

Dear Peter:

Enclosed are:

- 1). the results of 5 analyzed samples from your #8262; Cruise AM project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours thuly



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM	Date Sampled: 07/07/04
2500 Camino Diablo, Ste. #200		Date Received: 07/07/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 07/09/04-07/13/04
Walliut Cleek, CA 94397	Client P.O.:	Date Analyzed: 07/09/04-07/13/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction :	method: SW5030B	•	,- ()	Analytical	methods: SW8021	B/8015Cm		Work (Order: 0	407113
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	190,m	4900	ND<1.7	2.0	ND<1.7	ND<1.7	3.3	110
002A	MW-2	w	ND	5.7	ND	ND	ND	ND	1	104
003A	MW-3	w	ND	ND	ND	ND	ND	ND	1	109
004A	MW-4	w	ND	1400	ND	ND	ND	ND	1	115
005A	MW-5	w	ND<500	15,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	10	102
				-						
							·	· · · · · · · · · · · · · · · · · · ·		
			-	···						
					-					
					-					
	g Limit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/l
	is not detected at or the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

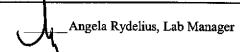
All Environmental, Inc.	Client Project ID: #8262; Cruise AM	Date Sampled: 07/07/04
2500 Camino Diablo, Ste. #200		Date Received: 07/07/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 07/07/04
wanter creek, on 5457)	Client P.O.:	Date Analyzed: 07/08/04

		Me	thyl tert-Butyl Ether and t-Buty	l alcohol *		
Extraction method: SW	5030B		Analytical methods: SW8260B		Work O	der: 0407113
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	t-Butyl alcohol (TBA)	DF	% SS
0407113-001B	MW-1	w	5500	ND<1000	200	105
0407113-002B	MW-2	w	5.6	ND	I	105
0407113-003B	MW-3	w	4.0	ND	1	105
0407113-004B	MW-4	w	2100	ND<250	50	105
0407113-005B	MW-5	W	19,000	ND<2000	400	103
						-
				······		
	mit for DF =1;	W	0.5	5.0	μ	g/L
	t detected at or eporting limit	S	NA	NA	mg	/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg,	wipe samples in µg/wipe,
product/oil/non-aqueous liquid samples in mg/L.	

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.



[#] surrogate diluted out of range or surrogate coelutes with another peak.

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0407113

EPA Method: SW8	021B/8015Cm E	Extraction:	SW50308	3	BatchID:	12272	S	piked Samp	le ID: 0407	107-015A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%
	hâ/r	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [€]	ND	60	97.2	93.6	3.76	97.2	98.6	1.44	70	130
МТВЕ	ND	10	113	108	5.14	117	111	5.24	70	130
Benzene	ND	10	118	112	5.34	110	109	0.255	70	130
Toluene	ND	· 10	113	107	6.06	104	104	0	70	130
Ethylbenzene	ND	10	114	108	5.59	111	108	2.60	70	130
Xylenes	ND	30	100	95.3	4.78	96.7	95.3	1.39	70	130
%SS:	96.3	10	106	105	0.956	97.6	103	4.92	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0407113

EPA Method: SW8260B	E	extraction:	SW5030E	3	BatchID:	12276	\$	Spiked Sampl	e ID: 04071	13-003B
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Methyl-t-butyl ether (MTBE)	3.98	10	118	120	1.00	116	117	0.813	70	130
%SS1:	105	10	96.4	97.5	1.12	102	99.6	2.08	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer

CHAIN-OF-CUSTODY RECORD

of I Page

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0407113

ClientID: AEL

Report to:

Peter McIntyre

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

TEL: FAX: (925) 283-6000 (925) 283-6121

ProjectNo: #8262; Cruise AM

PO:

Bill to:

Requested TAT:

5 days

Lesliegh Alderman

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Date Received:

7/7/04 7/7/04

Walnut Creek, CA 94597 Date Printed:

#	<u></u>								, <u>.</u>		Requ	estec	Tests	(See I	egend	below)					
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1	1 2	2	3	4	5	е		7	8	9	1(11	12	13	1	14 15
Gampio is	4 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			'																.		
0407113-001	MW-1	Water	7/7/04		Α	E	В															
0407113-002	MW-2	Water	7/7/04		Α	E	В							<u></u>						<u> </u>	4	
0407113-003	MW-3	Water	7/7/04		Α		В												ļ		-	
0407113-004	MW-4	Water	7/7/04		Α	E	В					 		ļ			_		<u> </u>		-	
0407113-005	MW-5	Water	7/7/04		Α	E	В							L <u>.</u> _		i			<u> </u>	.L	L	

Test Legend:

1	G-MBTEX_W
6	
11	

2	MTBE_W
7	
12	

3	
8	
13	

4	
9	
14	

5	
10	
15	

Prepared by: Melissa Valles

Comments:

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.

06,4

· ·	MaCAN	ADDET	T A NIA	T 370	DE CO	-	T N 1 /							_																			
	McCAN	110 2 nd /	AL AINA Avensie (AL X I	LICA Laba	L	IIN	٠.						1					CI	ΙA	IN	0	F	CU	JSI	ΓO	D'	Y F	Œ	CO	RD		
		PACHI	ECO, CA 9	4553-5	1, #177 560	iO							[TU	RN	Al																JK.	
Telepho	ne: (9 2 5) 79	98-1620				Fax: (925) 798-1622							1_									į		<u>USH</u>		24 I	HR	4	18 HR	1	72 HR	5 DAY	
Report To: Peter	MaIntuna	····		Dui T		EDF Required? Yes No									٠,-																		
Company: AEI				Bill T	0;									┈	-r	7		T-	An	alys	is R	legi	uest							Othe	r	Com	ments
	Camino Dia		a 200											1		E.]							0			İ	
	ut Creek, C			F.N	Mail:									łщ	i	FJE								0				1	Ś			ļ	
Tele: (925) 944-2				Fax:		94	4-2	895				<u> </u>		8015)/MTBE		E&	=							831		!			378				
Project #: 62			,	Proje	ct Na	me:	7	1/3	0.3	-	1 m			1 <u>S</u>		5520	418							70%				' t	\sim				
Project Location:		A	سو	(Ú) c	(10/1	¥n.	n	<u>~</u>			•			4		3	Sinc (020		×			.8			6		84				
Sampler Signatur	e: Adm		Vilh		\$									(602/8020+		Grease (5520 E&F/B&F)	tra l		2 / 8		S			625			601						
		¥ 7	PLING		1 8	Τ	MA	TR	ΙΧ		ME			8	3	Oil &	Total Petroleum Hydrocarbons (418.1)	ļ	BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260		PAH's / PNA's by EPA 625 / 8270 / 8310			Lead (7240/7421/239.2/6010)	. [+				
			7	- E	Type Containers	\vdash	1	1		PI	RES	ERV	ED	ĝ	TPH as Diesel (8015)	Ö	n H		(EP.		2	9/8		رف	s,	_	172]	
SAMPLE ID	LOCATION			# Containers	l Ezi	ŀ								H. BS	ese	Total Petroleum	leur	EPA 601 / 8010	Ľ	EPA 608 / 8080	88	824	EPA 625 / 8270	Ϋ́	CAM-17 Metals	LUFT 5 Metals	747		Ш			ļ	
(Field Point Name)	200.111011	Date	Time	1 5	ට්	=			96 F	.1		20		втех & трн	ğ	etro	etro	9	ŏ	8	œ	24/	25/	£	17 N	Z.	246		M				
				ವಿ	Ě	Water	Soil	Air	Sludge	Ice	HCI	HNO3	Other	EX	H'a	I I	tal I	9 V	Ä	9 V	A 6	A 6.	, A	H,s	¥	国	ad (1	i
		ļ.,.,	 			^	S	<	0	Ĭ	F	H	9	Я	F	ĭ	Ë	臣	B	苗	岜	苗	崮	P.A	5	듸	3	RCI	2			1	
MW -/		7/4/64	am	4	104.	×		ł		×	X			×															\times				
MW -S			1	4		λ				7	×			×									一				\neg	7	⋈	_ -	1	1	
4W -3				4		¥				V	入			×					 f		1			\neg	_	+			X			_	
4W -4		1		4		×				夨	×		_							_	1		-			-			\times		-	 -	
MW - 5			1	1/2	1/-	lγ	\dashv	-	+-		X	\vdash	\neg	ン ×				\dashv		-+			\dashv	\dashv	\dashv			-	\rightarrow	+		 	
····		Ψ	-	14	W-	 	-		+	\cap									\rightarrow	\dashv	-					+	+		<u>~</u>		-		
			 	 		<u> </u>	\dashv		 	<u> </u>		-		-			_	_				_	_		_		_	_	_	_			
			 			ļ	\perp			<u> </u>			\perp	_																			
		·	<u> </u>	<u> </u>							١. ا						ĺ				İ		Ì										
					Í																			T				1			†		
· 													T				1		7	_	_	+		_	\dashv	十		1		+	+		· ·
		·-		1				\top	_			_	_				1	+			\dashv			+		+			+	-	╁		
							-	-	+		-	\dashv			-	-	_		-	-	-		+			+	\dashv		-		-		
			<u> </u>				+	+	+-		\vdash		╣	\dashv	\dashv	\dashv		-	+	+				_	_	_		-					
			<u> </u>					- -	+		\dashv		-			\dashv	\dashv		_	-			_					\perp	_	_	ļ	. .	
Relinguished By:		Date/ /	Time:	D	ved B		ㅗ.		1,9	7			_															Ш,					
110=1	len	7/7/5		Rece	ved (S)	1/2	U`	\bigvee_{A}	- [[\mathbb{Z}									-									•	1		ı	. 1	7
Relinquished By:		Date:	S.YS	Reco	ved B	<u>, </u>	<u></u>	۷,		_			4	10	CE/t	•		_			/	e.	/PI	RES	ER	VA1	IOI	VO	AS	Ó&G	M	ETALS	OTHER
			1.4110.	Nece	irea D	, .									00							/	Al	PPR	OP	RIA	TE		_		•		
Relinquished By:		Date:	Time:	Dogg	ved By		-						4		IEAI							_			CAR				~				į
	ľ	van.	# 11/1C:	Mecel	ved B	r -								IJ	ECI	AL-V	'ILII'	1/1.1	CV.	11 A T	лAB			rei	(SE	K V I	i U	N L	AB_				
													- 1																				ľ



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #2	Date Sampled: 07/19/04
2500 Camino Diablo, Ste. #200		Date Received: 07/19/04
	Client Contact: Peter McIntyre	Date Reported: 07/26/04
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 07/26/04

WorkOrder: 0407243

July 26, 2004

Dear Peter:

Enclosed are:

- 1). the results of 3 analyzed samples from your #8262; Cruise AM #2 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4), a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #2	Date Sampled: 07/19/04
2500 Camino Diablo, Ste. #200		Date Received: 07/19/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 07/21/04-07/22/04
wantut Cleek, CA 94397	Client P.O.:	Date Analyzed: 07/21/04-07/22/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction 1	method: SW5030B			Analytical 1	methods: SW8021	B/8015Cm		Work (Order: 0	407243
Lab ID	Client ID	Matrix	TPH(g)	МТВЕ	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	340,m	8000	ND<2.5	4.0	ND<2.5	ND<2.5	5	113
002A	MW-4	w	ND	1200	ND	ND	ND	ND	1	107
003A	MW-5	w	ND<500.j	16,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	10	111
									:	
,										
	~~							****		
		1000								
·	<u>-</u>									
	g Limit for DF =1; s not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/l
	he reporting limit	S	NA	NA	NA.	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg	, wipe samples in µg/wipe,
product/oil/non-aqueous liquid samples in mg/L.	

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

Angela Rydelius, Lab Manager

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #2	Date Sampled: 07/19/04
2500 Camino Diablo, Ste. #200		Date Received: 07/19/04
77.1 (C. 1 C) 04507	Client Contact: Peter McIntyre	Date Extracted: 07/19/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 07/20/04-07/26/04

Methyl tert-Butyl Ether & t-Butyl alcohol*

Extraction method: SW	5030B	М	ethyl tert-Butyl Ether & t-Butyl Analytical methods: SW8260B	l alconol*	Work O	rder: 0407243
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	t-Butyl alcohol (TBA)	DF	% SS
0407243-001B	MW-1	w	9200	ND<1700	330	101
0407243-002B	MW-4	w	1300	ND<500	100	105
0407243-003B	MW-5	w	14,000	ND<2500	500	113
		<u> </u>		· ·		
				·		
						1
					-	
		-				
	imit for DF =1; ot detected at or	W	0.5	5.0		ıg/L
	reporting limit	S	NA .	NA	m	ıg/Kg

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in $\mu g/L$, soil/sludge/solid samples in $\mu g/kg$, wipe samples in $\mu g/kg$, wipe samples in $\mu g/kg$.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

4

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0407243

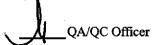
EPA Method:	SW8021B/8015Cm	Extraction:	SW5030E	3	BatchID:	12383	Spiked Sample ID: 0407248-004A					
	Sampl	e Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptanc	e Criteria (%)		
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
TPH(btex) [£]	ND	60	95.7	93.5	2.36	78.3	74	5.55	70	130		
МТВЕ	ND	10	103	105	1.47	114	108	5.33	70	130		
Benzene	ND	10	109	113	3.01	105	99.7	5.03	70	130		
Toluene	ND	10	104	107	2.66	104	102	2.49	70	130		
Ethylbenzene	ND	10	109	111	1.89	112	106	6.15	70	130		
Xylenes	ND	30	95.7	96.3	0.694	100	91.7	8.70	70	130		
%SS:	103	10	102	105	3.06	102	102	0	70	130		

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0407243

EPA Method: SW8260B	E	xtraction:	SW5030	3	BatchID:	12393	Spiked Sample ID: 0407248-005B				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	µg/L µg/L		% Rec. % Rec.		% RPD	% Rec.	% Rec.	% RPD	Low	High	
Methyl-t-butyl ether (MTBE)	ND	10	108	112	3.32	107	107	0	70	130	
%SS1:	105	10	105	108	2.46	97.7	97.4	0.312	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

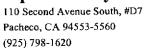
* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0407243

ClientID: AEL

Report to:

Peter McIntyre

TEL:

FAX:

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

All Environmental, Inc.

(925) 283-6000

(925) 283-6121

ProjectNo: #8262; Cruise AM #2

PO:

Bill to:

Requested TAT:

5 days

Lesliegh Alderman

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

Date Received:

7/19/04

Date Printed:

7/19/04

				[Requested Tests (See legend below)																
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3		4	5		6	7	8	9	10	11	12	13	14	15
		Mata	7/40/04			В	1		- 1			—~ _T									\top
0407243-001	MW-1	Water	7/19/04 7/19/04	+	A	В									+ -		 				+
0407243-002	MW-4																				

Test Legend:

1	G-MBTEX_W
6	
11	

2	MTBE_W
7	
12	

3	
8	
13	

4	
9	
14	

5	
10	
15	

Prepared by: Melissa Valles

Comments:

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.

	Telepho	McCAM	110 2 nd AV PACHEC		OUTH,	#1D7 50		NC (925)8-1 ₁	622								O	CH) T	IM	E		Ū RUSI	 	Ļ		RE(CO			□ HR	5 DAY
	Report To: Peter	McIntyre		В	ill To):									151.		red.			Ana	_				22.37					Oth	er		Comi	nents
	Company: AEI C																6						T	Τ	T									
		Camino Dia	blo, Suite	200											.,		B&1										ļ		0					
j	Waln	ut Creek, C	A 94597		E-M	ail:									TTBE		18.F/							310					N			ł		
	Tele: (925) 944-2			F	ax: (925)	94	4-28	95						8015)/MTBE		20 E	18.1						3/0/					8	/	-	- 1		
	Project #: 82	62		P	rojec	t Nai	ne:	Cr	us	re	A m	1. H	ہ ک				55)	t) 81		8		ا ہر		/827	1				BA	İ		- 1		
	Project Location:	66 FM	Ane	10	a le	f eq m	14	<u> </u>							020		reas	Ιφο Ι	ł	/80		ž	İ	625			0109					- 1		
	Sampler Signatur	e: //d/m	1	LING	()						Т.	MET	110		8/709		Ď Z	Loca		602	ļ		3	PA		-	9.2/6		′			- 1		
		'7	SAMP	ĽING		Ę]	MA	TRI	X	PF	RESE	ERV.	ED	Gas (602/8020+	3015	3	Hyd		3PA		[[20/	by E	٠ .		1/23		4			- 1		
	SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Other)3		BTEX & TPH as C	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8290 FPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	MTBE					
+	MW-1		7/19/04	100-1	4	Voq	$\overline{\mathbf{x}}$		_	+	┰	X			×							7			1				4				7	
十			17175	New-C	1	1	<u>^</u>			- 	 	X			$\frac{r}{\times}$			-				\top	\top	1	1	1			1					
ر ا	MW-4		1)6		 				+		1	X			$\overline{\lambda}$						-	+	+	+	+	-	-			\dashv	1			
7	MW -S		V		V	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					屵	$ \uparrow \rangle$	<u> </u>		\cap						+	+		+	-	-	-	-		\dashv				
					ļ	 	 		\perp		-	<u> </u>													-			 	\vdash	\dashv				
							<u> </u>		4		_	↓_								\dashv	_		_		ļ <u>-</u>	-		-	_			\dashv		
											\perp									\perp	_	-	<u> </u>	-		+	ļ	—				 ∤		
																						_ _		<u>.</u>	-	1	ļ	_		_	4	_		
		,									1					:										<u> </u>								
			· · · · · · · · · · · · · · · · · · ·	1							_					-																		
							†				1		Ī																					
							1				1										7													
			 			\vdash	 -	\Box		\top	┪┈										\neg			1		T				Ì				···
			 	-	 		╁┈╴		+	╁.		+-									十		1-	1	1-	1		· · · · · · · · · · · · · · · · · · ·				1		
			<u> </u>		 	 	╀		-		╁	+	\vdash										\dashv	╁	+	+	\dagger	 			_	_		
		<u></u>	Date	Time	 	iyed a l			<u> </u>				1								_1				Щ.		<u> </u>	1		1	1	1		
	Relinguished By:	Dew	Date: 7/19/04					a	_		e-					CE			_			/	/			RV		ON_	ods	08	&G	M	ETALS	OTHER
	Relinquished By:		Date:	Time:		eived F							- · · · · · · · · · · · · · · · · · · ·]]	HEA	AD S	PAC	CE A	PION ABSI TED	INT	LAE	_	CO	NT	OPR AIN SER	ERS		LAI	/ }		.		
	xomiquoned by]		,																											



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #3	Date Sampled: 08/06/04	
2500 Camino Diablo, Ste. #200		Date Received: 08/06/04	
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 08/11/04	
Wallut Creek, CA 94597	Client P.O.:	Date Completed: 08/11/04	

WorkOrder: 0408096

August 11, 2004

Dear Peter:

Enclosed are:

- 1). the results of 3 analyzed samples from your #8262; Cruise AM #3 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Your trul



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #3	Date Sampled: 08/06/04
2500 Camino Diablo, Ste. #200		Date Received: 08/06/04
Well-ust Carella CA 04507	Client Contact: Peter McIntyre	Date Extracted: 08/07/04-08/10/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 08/07/04-08/10/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction n	method: SW5030B	•		Analytical	methods: SW80211	B/8015Cm		Work (Order: 0	408096
Lab ID	Client ID	Matrix	TPH(g)	МТВЕ	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	280,m	7200	ND	5.6	ND	ND	1	110
002A	MW-4	w	ND	1300	0.76	ND	ND	ND	1	102
003A	MW-5	w	110,f	12,000	ND	ND	ND	ND	1	114
					<u> </u>					
			•							
				,						
			- Andrew Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t							-
			nasamanarayyydd androgrumdu ac'i ryfran and	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon						
	· · · · · · · · · · · · · · · · · · ·			ļ		-				ļ
Reporting	g Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/l
	s not detected at or he reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #3	Date Sampled: 08/06/04
2500 Camino Diablo, Ste. #200	·	Date Received: 08/06/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 08/06/04
Wallitt Creek, CA 94397	Client P.O.:	Date Analyzed: 08/06/04-08/09/04

Methyl tert-Butyl Ether and t-Butyl alcohol*

Extraction method: SW	75030B		Analytical methods: SW8260B		Work O	der: 0408096
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	t-Butyl alcohol (TBA)	DF	% SS
0408096-001B	MW-1	w	5900	ND<1000	200	109
0408096-002B	MW-4	w	1200	ND<500	100	110
0408096-003B	MW-5	w	11,000	ND<2500	500	111
	·					
	·					
				· · · · · · · · · · · · · · · · · · ·		
Reporting Li	mit for DF =1,	W	0.5	5.0	μ	g/L
	ot detected at or reporting limit	S	NA	NA	m	g/Kg

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; k) client defined reporting limit.

RL = Reporting Limit; MDL = Method Detection Limit; DF = Dilution Factor; J = Estimated value; concentration detected between the MDL and RL.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.rnccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0408096

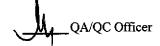
EPA Method: SW80	21B/8015Cm E	xtraction:	SW5030E	3	BatchID:	12636	S	piked Sampl	e ID: 04080	093-023A
	Sample	Spiked	MS*	MSD*	M\$-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	84.1	84.4	0.429	97.6	98	0.503	70	130
МТВЕ	ND	10	85.9	86	0.0931	107	104	2.77	70	130
Benzene	ND	10	85.7	87.5	2.02	107	106	1.68	70	130
Toluene	ND	10	87.8	89	1.34	103	100	3.10	70	130
Ethylbenzene	ND	10	89.9	91.2	1.46	106	106	0	70	130
Xylenes	ND	30	90	90.7	0.738	95.3	95	0.350	70	- 130
%SS:	85.7	10	95.8	96.8	1.06	103	101	1.86	70	130

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.inccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0408096

EPA Method: \$W8260B	E	extraction:	SW5030E	3	BatchID:	12641	s	piked Sampl	e ID: 04081	09-001B
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Methyl-t-butyl ether (MTBE)	ND	10	92.8	100	7.78	98.5	103	4,73	70	130
%SS1.	110	10	102	100	1.64	96.4	97.1	0.650	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS + MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

اين	·	McCAM	PBELL	ANAI	YTI	CA.	LI	NC.						T					C	HA	IN	īŌ	F	CU	ST	O				OF	₹D		
İ		1	10 2 nd AV PACHEC	ENUE SO	UTH,	#D7									T	UR	N A	AR(UC	ND	TI	ME			Q J\$H		□ 24 H			□ HR		72 HR	5 DAY
	Telephor	ne: (925) 798		•		F	ax:	(925	5) 79	98-1	622				ED	FR	lequ	ired	1?		Υe	:S		K1	No.		24 D	LIN.) LIIN		72 1111	JEIL
ł	Report To: Peter	McIntyre		В	ill To	: san	ne							士						naly		_							(Othe	<u>-</u>	Com	ments
Ì	Company: AEI C													\bot			Œ,									ļ							
	2500 (Camino Dial	olo, Suite	200										_		ĺ	/B&									j							
	Waln	ut Creek, C	A 94597		E-M					eicor	ısult	ants.	com	_	8015)/MTBE		E&F	اء	ļ					625 / 8270 / 8310	. 1	}			8				
	Tele: (925) 944-2	899		F	ax: (925)	944	1-28	95				127	4	15)/		220	- E						70/					28	-		İ	
	Project #: 876			P ₁	rojec	t Nar	ne:	c_{r}	ut!	حهي	#A	M =	7.9		+	1) Se	7) SU		<u> </u>) ×			/ 82	}		െ			1			
ŀ	Project Location:		Ane		alti		<u></u>	-							Gas (602/8020		35	of large		8/2	S			625			/601		# 5				
	Sampler Signatur	e:		fred to			1			F32		MET	ног	5	600	ন	80	droc		8	, a			EPA	1		39.2		7.6				
		/	SAMPI	LING/	Ş/s	Type Containers	ļ!	MA	TKI	IX.	P	RESI	RVI	ΞĐ		(8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	ااه	BTEX ONLY (EPA 602 / 8020) FPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	0	٥	3	ds	S.	Lead (7240/7421/239.2/6010)		4				
	SAMPLE ID				mer	l tai									8 I	SG	Je I	oleur	<u></u>	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	8	828	/ 827	NA.	Meta	feta	10774		1, 1		ļ		
	(Field Point Name)	LOCATION	Date	Time	ntai	Ş	ᅵᇙ			30 E	H		ايرا	H	& TE	i i	Petr	Petr	<u> </u>		809	624	625	s/P	-11]	г 5 в	724		第				
			Date	1 Idile	# Containers	уре	Water	Soil	Air.	Shudge	le le le	HC	ž	Other	втех & тен	TPH as Diesel	[gg]	otal	EPA 601 / 8010	BTEX ONLY (E	Į.	EPA 624 / 8260	EPA 625 / 8270	ΑH	CAM-17 Metals	LUFT 5 Metals	read	RCI	MT				
							1 -	S	< ≀	S	7 12	 	122	-		-	-	'	<u>ш</u>	<u> </u>	+	-	-	-	Ğ	1		1		+	+	 	
(4)	MW-/		9/0/04	Q-	4	109	K			\perp	1	1×		\dashv	\times	_				-		-		 					x ×	+	+-		
H	MW-4				4		\times			\perp	<u> </u>	\ <u> </u>		_	X						-	+-	-	ļ					X	+-	+		
+	MW -9		V	V	4	LV.	X				λ	1			\times				_	_	-		-	<u> </u>								-	
			¹ h			Γ.														_	1		_		<u> </u>	ļ		ļ	\sqcup				-
																								_							_	<u> </u>	
				:																				<u> </u>						\perp			
		<u> </u>		,			1											İ					Ĺ					L			_		
					1		1												.					<u> </u>									
						 	1	\Box		\top															1		ĺ						
					 	1		$\vdash \vdash \vdash$	1	\dashv	_																						
					 	1	+				+	1.							1		Ť	1									\top		
					 	-	╢	\vdash	-		+						-		\dashv		+	┪	1	†	\vdash		1	 	1	\neg			
		<u> </u>			├ ──	 	- -	\vdash			+		-					-			+		-	+	1	 -	1	1—			1	_	
					-	 	- -	\sqcup			+	+	-		_						+	+	- 	┪	╁	╁╌	 -	1	H		-	-	
						مل	┸								_	<u> </u>					_		ــــــــــــــــــــــــــــــــــــــ		Ļ		J		 _				
	Relinquished By:	10.	Date:	Time:	Rec	dived	κy: ∠\	~-	Ö	1	ス	_	,							_			. * *s					. 1	voas.	0&	r G	METAL	SOTHER
	Mary 1	V lest	0/6/04	<u>~ //</u>	7 70	بميد	<u>//</u>	n		v _		X				CE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			·				ATI	ON_		<u> </u>			
	Relinquished By:		Date:	Time	Rec	eiv é d l	ьy;					\mathcal{O}								TION ABSE	NT			API CO:			IAT ERS			-			
	Relinquished By:	<u></u>	Date:	Time:	Rec	eived :	Bv:													LED LED		AB_							LAI	}		_	
	Kemquisucu sy:		Date.	1		-21 442	_ J -																										

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0408096

ClientID: AEL

Report to:

Peter McIntyre

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

TEL: FAX:

(925) 283-6000

(925) 283-6121

ProjectNo: #8262; Cruise AM #3 PO:

Bill to:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

Requested TAT:

8/6/04

5 days

Date Received: Date Printed:

8/6/04

				ſ					1	Request	ed Test	s (See l	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1 MA/ 4	18fatau	P/C/DA		Δ	R	Τ.	1	1	1	1			<u> </u>				<u> </u>	Γ
****	MW-1	Water	8/6/04		Α	В													-
0408096-001 0408096-002	MW-1 MW-4	Water	8/6/04 8/6/04		A A	В													

Test Legend:

1	G-MBTEX_W
6	
11	

2	MTBE_W	
7	· · · · · · · · · · · · · · · · · · ·	
12		

3	
8	
13	

4	
9	
14	

5	 		
10			
15		-	

Prepared by: Elisa Venegas

Comments:

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.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #4	Date Sampled: 08/20/04
2500 Camino Diablo, Ste. #200		Date Received: 08/20/04
W. 1 . 0 . 1 GA 0450G	Client Contact: Peter McIntyre	Date Reported: 08/30/04
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 08/30/04

WorkOrder: 0408290

August 30, 2004

Dear Peter:

Enclosed are:

- 1). the results of 3 analyzed samples from your #8262; Cruise AM #4 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

Yours trul



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise AM #4	Date Sampled: 08/20/04
2500 Camino Diablo, Ste. #200		Date Received: 08/20/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 08/21/04-08/27/04
wamdi Cieek, CA 94397	Client P.O.:	Date Analyzed: 08/21/04-08/27/04

			ge (C6-C12) V				ith BTEX and l			400000
Extraction me	chod: SW5030B	Matrix	TPH(g)	Analytical MTBE	methods: SW80211 Benzene	Toluene	Ethylbenzene	Xylenes	Order: 0 DF	408290 % SS
Lau ID	Cheff ID	Manix	III(g)	MIDE	Delizene	Torucic	Ediylochizene	Aylones		70 31
001A	MW-1	W	ND<250,j	4600	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	98.4
002A	MW-4	w	ND	460	ND	ND	ND	ND	1	97.4
003A	MW-5	w	ND<500,j	7200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	10	99.3
									-	
			FFA PARA A							
		-								
	imit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/I
	reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.	above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/
				ts are reported in	ug/L, soil/sludge	e/solid samples in	mg/kg, wipe sa	mples in µg/wip	e,	

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment, j) reporting limit raised due to high MTBE content, k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0408290

EPA Method:	SW8021B/8015Cm	Extraction:	SW5030E	3	BatchID:	12803	s	piked Sampl	e ID: 0408	397-001A
<u> </u>	Sample	e Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptanc	e Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [€]	ND	60	102	102	0	101	99.2	1,41	70	130
MTBE	ND	10	104	100	3.74	93.2	107	14.0	70	130
Benzene	ND	10	106	103	2.66	96.3	105	8.50	70	130
Toluene	ND	10	104	100	3.76	97.8	103	5.52	70	130
Ethylhenzene	ND	10	103	102	0.592	97.1	102	5.32	70	130
Xylenes	ND	30	90.3	90.3	0	86	90.3	4.91	70	130
%SS:	101	10	106	105	0.696	101	105	3,96	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Teler (225) 798-1620 Report To: Peter McIntyre Company: AEI Consultants 180 Carrian Diable, Suite 200 Walnut Creek, CA 94597 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fermi (925) 944-2899 Fe		McCAN	IPBELI	ANAI	YT	ICA	LII	IC.										(CH	A	IN	O.	F (CU	ST	O	D۷	/ I	Œ		RI			سا	_
Telephone: (925) 798-1620														1 7	TUF	N.	AR	O	JNJ	D I	IN	IE													<u>.</u>
Report To: Peter McIntyre	Telephor	ne: (925) 79		.O, CA 34.	, J.J 1, J.		ax: (925)	798	-16	22			_	DE I)	1	40	r	- .	Vas		•	RI	ISH No		24 F	IR	4	8 HI	₹	72	HR	5 DA	· X
Company: AEI Consultants 2500 Camino Diablo, Suite 200 Walnut Creek, Ca 45977 E-Mail: pricipaye@aciconsultants.com Tele: (925) 944-1899 Fas: (925) 942-899 Project Name: Can's a set of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control of a control o	Deport To: Poton	MoInture		R	in To	· can	16				<u></u>	·		╀	Dr j	ceq	uue			Service C		_		<u>L_6</u>	110					Oth	er	1	Com	nents	
1589 Camino Diablio, Suite 200 Walmet Creek, CA 94597 E-Mail: precintyre@aelconsultants.com Pass (925) 944-2895 Pass (925) 944-2895 Project Aims (2008) 200 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Charles (92.6 Project Name: Ch					THE A C	/. San		- -						╁						V		1													
MW -			blo. Suite	200										1		B&F					1				ļ										
MW -				-	E-M	Lail: p	mein	tyre()aeic	onsi	ultan	ts.cc	om]曾		ÆF/								3310							-				ŀ
MW -	Tele: (925) 944-2	899		F	a <u>x:</u> (925)	944	-289	5					18		20 E	18.1							3/0/	l		i								ı
MW -	Project #: 82	62		P	rojec	t Nar	ne:	C_{N}	ui e	· e	#	W. 4	#4	<u> </u>		(55	13 (4	İ	ଛ		_	l		/ 827											
MW -	Project Location:	66 F	- /	<u> </u>	39 Qu	K (مب	<u>اره</u>						1 5		<u> </u>	TOQ.		/ 80		ğ			625	ļ		9010			}					1
MW -	Sampler Signatur	e: //dm	7	11/17	<u> </u>		Τ.				М	FTH	an	- 8/7	(5	S & G	droc		602		88			PA			19.27					1			
MW -		'	'SAMP	LING	so.	Ę	I	TAN	RIX					e j	801;	<u>i</u>	H		EPA		5			ýq	<u>8</u>	,,	21/2					1			İ
MW -	SAMPLE ID				ner	<u>i</u>				!!!				H as	∣ਲ	E I	lem	8010	7.7	808	808	826	827	NA's	Meta	fetal	0/74								
MW -		LOCATION	Data	Time	ntai	5	 		9	1			6	_ <u>₽</u> %	S Die	Pet	Petro	01/	8	/ 80	/ 809	777	752	s / Pl	17.	S	(724					-			
MW -			Date	Althre	Ç	<u>a</u>	/ate	ন্ত :	# <u>F</u>	the	يو	ַכַן צ		Ę	PH a	otal	otal	PA (TEX	PA (PA (PA (PA	AH.	AM	Į.	ead	ij		- 1	ļ				
Rejinquished By: Date: Time: Received By:						F		Š <	इ छ	0	ĭ	<u> </u>	T C	 -	<u> </u>	F		田	m	ш	[17]	Ш	123	<u>-</u>	-		1	-	 	+	\dashv	-			ᅴ
Relinquished By: Date: Time: Received By:	TMW -!		8/20	Am		(con	Y			<u> </u>			\perp	1									\dashv						-		\dashv				_
Relinquished By: Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing Containing	-mw - 4		1	7	4		x				×	\geq		~	·																\dashv	_			\dashv
Relinquished By: Date: Time: Received By:	-MW - 5		V	W	4	l Ψ	×				×	\times		<u> ~</u>	1																	_			_
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION			15																																
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION																																			
Work of the linquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION														1				-																	
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION														1-											!										
Work of the linquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION					ļ	-						\top	_	-	-			-				_											·		
Work of the linquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION				 		-	1-		+	\vdash		+		-	+												ļ					T			
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION			<u> </u>			 	\mathbf{H}	-	+	+-		-	+	-	-									\vdash				-						-	
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION			· · ·				+		+	┼┈╴			_	+	+									_				1				_			
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION	<u></u>		<u> </u>	 	-	╁	+	-		-		-		-	 -												<u> </u>		 			┨			
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION		ļ			 	1	-		+	-	╂╌┤			┧—	+	<u> </u>								<u> </u>			-		1-		+	-			
Work of Melinquished By: CE/t° PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION PRESERVATION	-			 	!	-			_	-					┿						<u> </u>								-						
Work O&G METALS OTHER Received By: CE/t° PRESERVATION PRESERVATION Relinquished By: CONTAINERS CONTAINERS Received By: CONTAINERS CONTAINERS Received By: CONTAINERS CONTAINERS CONTAINERS Received By: CONTAINERS CONTAINERS CONTAINERS Received By: CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAIN		<u> </u>		<u> </u>	_	<u></u>			Ш.	<u></u>				4								i			<u></u>		<u>L.</u>	<u> </u>		لِــا				-	
CE/t° PRESERVATION CE/t° PRESERVATION CE/t° PRESERVATION CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAI		Non	1		Red			_	_																			١	ZAON	100	&G	M	Etals	оти	ER
HEAD SPACE ABSENT CONTAINERS CONTAINERS PROBEDVED IN LAB					Dan	<u> </u>			۷ ـ	\triangle	×	سسا	_	-	ICE	/t°	بد_	_				_						ON				L			
DECHI ODINATED IN LAD DEDCEDVED IN LAD	reunquished by:		Date;	1 mes	Kee	erveu I	у.				O										T	_							/						
teniquand 2).	Relinguished Ruy		Dates	Times	Ren	elved I	Bv:	-						┨								В_	·- '							B					
	Senudicanen på:		Date,	1		~1 - 447	~1.																								_				

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Requested TAT:

Date Received:



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0408290

ClientID: AEL

Report to:

Peter McIntyre

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

TEL: FAX: (925) 283-6000

FAX: (925) 283-6121 ProjectNo: #8262; Cruise AM #4

PO:

Bill to:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597 Date Printed:

5 days

8/20/04

8/20/04

wainut Creei	K, CA 94097	10												_	·			-	-	
							 -		1	Requ	este	d Test	s (See	legend b	elow)					
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1	2	3	4	5	6	;	7	8	9	10	11	12	13	14	15
Sample ID	Onemounpin				L			<u> </u>												
				<u> </u>	F .		т-				Т		T	Т	T	1	1	·		\Box
0408290-001	MW-1	Water	8/20/04		Α								ļ		 	-	 	 	 	+
0408290-002	MW-4	Water	8/20/04		A_										 	 	 		 	-
0408290-003	MW-5	Water	8/20/04		A			1					<u> </u>			<u> </u>	1	<u> </u>		

Test Legend:

1	G-MBTEX_W	
6]
11		1

2	
7	
12	

3	
8	
13	

4	
9	
14	

5	
10	
15	·

Prepared by: Sonia Valles

Comments:

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.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise	Date Sampled: 09/03/04	
2500 Camino Diablo, Ste. #200	America#5	Date Received: 09/03/04	
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 09/09/04	
Wallat Crook, C21 34337	Client P.O.:	Date Completed: 09/09/04	

WorkOrder: 0409052

September 09, 2004

Dear Peter:

Enclosed are:

- 1). the results of 3 analyzed samples from your #8262; Cruise America#5 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise	Date Sampled: 09/03/04
2500 Camino Diablo, Ste. #200	America#5	Date Received: 09/03/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 09/04/04-09/07/04
Wallet Clock, C21 3 1037	Client P.O.:	Date Analyzed: 09/04/04-09/07/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	method: SW5030B			Analytical	methods: SW8021	B/8015Cm		Work	Order: 0	409052
Lab ID	Client ID	Matrix	TPH(g)	мтве	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	ND<250.j	5700	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	106
002A	MW-4	w	ND	440	ND	ND	ND	ND	1	103
003A	MW-5	W	ND<500,j	8500	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	110
									-	
	<u> </u>								-	
	·									
									ļ	
								<u></u>		
	g Limit for DF =1; s not detected at or	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
	he reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	,	Date Sampled: 09/03/04
2500 Camino Diablo, Ste. #200	America#5	Date Received: 09/03/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 09/03/04
Wallet Clock, CH 54357	Client P.O.:	Date Analyzed: 09/04/04-09/08/04

		Onem.		Date / Mary Sec. 03	70 170 1 0570				
Methyl tert-Butyl Ether & t-Butyl alcohol* Analytical methods: SW8260B Work Order: 0409052									
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	t-Butyl alcohol (TBA)	DF	% SS			
0409052-001B	MW-1	w	4700	ND<1000	200	98.0			
0409052-002B	MW-4	w	370	ND<50	10	104			
0409052-003B	MW-5	w	7200	ND<1700	330	102			
						·-			
				·					
	-								
	· 				-				
	mit for DF =1;	W	0.5	5.0	. μ	g/L			
	eporting limit	S	NA	NA	mį	/Kg			

above me reporting minit	_		••••	
		<u> </u>		
* water and vapor samples and all TCLP	& SPLP ext	tracts are reported in µg/L, soil/sludge	/solid samples in µg/kg, wipe sample	s in μg/wipe,
product/oil/non-aqueous liquid samples in	n mg/L.			

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; k) client defined reporting limit.

RL = Reporting Limit; MDL = Method Detection Limit; DF = Dilution Factor; J = Estimated value; concentration detected between the MDL and RL.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0409052

QA/QC Officer

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 12971 Spiked Sample ID: 0409053							53-010A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	103	102	0.377	101	115	12.9	70	130
МТВЕ	ND	10	98	104	5.80	92.7	103	10.5	70	130
Benzene	ND	10	107	110	2.74	109	118	7.95	70	130
Toluene	ND	10	101	104	3.72	103	115	10.7	70	130
Ethylbenzene	ND	10	105	108	2.16	107	111	4.25	70	130
Xylenes	ND	30	90.7	95	4.67	91.3	95.7	4.63	70	130
%SS:	102	10	107	109	2.26	109	120	9.81	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0409052

EPA Method: SW8260B	E	Extraction:	SW5030	В	BatchID: 12985 S			Spiked Sample ID: 0409039-001A		
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Methyl-t-butyl ether (MTBE)	ND	10	97.1	93.9	3.44	92.7	95.4	2.86	70	130
%SS1:	107	10	104	103	1.32	98.5	98.3	0.183	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

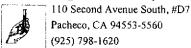
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer

1409052 - APL

USTODY RECORD Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
Other Comments
000
0928
39.2/6010) T BH (82
17 1723
CAM-17 Metals LUFT 5 Metals LUFT 5 Metals RCI AUTBE + TBH
\times
VOAS O&G METALS OTHER RESERVATION_
PPROPRIATE ONTAINERS PERSERVED IN LAB



CHAIN-OF-CUSTODY RECORD

WorkOrder: 0409052

ClientID: AEL

Report to:

Peter McIntyre

TEL:

(925) 283-6000

FAX:

(925) 283-6121

ProjectNo: #8262; Cruise America#5

Walnut Creek, CA 94597

2500 Camino Diablo, Ste. #200

All Environmental, Inc.

Bill to:

Requested TAT:

5 days

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Date Received:

9/3/04 9/3/04

Walnut Creek, CA 94597 Date Printed:

								Re	ques	sted	Tests	S (See	legend l	below)								
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5		6	<u>i</u>	7	8	9	10	11	12	13	3	14	15
0409052-001	MW-1	Water	9/3/04		Α	В	1	 			.ases m	7		[T	-T	Ţ		<u> </u>			
0409052-002	MW-4	Water	9/3/04		Α	В				T							1					
0409052-003	MW-5	Water	9/3/04		Α	В														T		

Test Legend:

1 G-MBTEX_W	2 MTBE_W	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Rosa Venegas

Comments:

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.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise America	Date Sampled: 10/13/04
2500 Camino Diablo, Ste. #200		Date Received: 10/13/04
777	Client Contact: Peter McIntyre	Date Reported: 10/19/04
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 10/19/04

WorkOrder: 0410176

October 19, 2004

Dear Peter:

Enclosed are:

- 1). the results of 5 analyzed samples from your #8262; Cruise America project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



110 2rd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise America	Date Sampled: 10/13/04
2500 Camino Diablo, Ste. #200		Date Received: 10/13/04
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 10/14/04-10/15/04
Wallin Cleek, CA 94397	Client P.O.:	Date Analyzed: 10/14/04-10/15/04

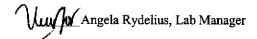
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction 1	method: SW5030B	030B Analytical methods: SW8021B/8015Cm								Work Order: 0410176			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
001A	MW-1	w	170,m	3700	ND	4.8	ND	ND	1	116			
002A	MW-2	w	ND	ND	ND	ND	ND	ND	1	109			
003A	MW-3	w	ND	ND	ND	ND	ND	ND	1	106			
004A	MW-4	w	ND	330	ND	ND	ND	ND	1	105			
005A	MW-5	w	ND<250.j	6700	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	105			
							·						
						-							
	·												
	Limit for DF =1; not detected at or	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/L			
	ne reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg			

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe,	
product/oil/non-aqueous liquid samples in mg/L.	

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.





110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruise America	Date Sampled: 10/13/04
2500 Camino Diablo, Ste. #200	:	Date Received: 10/13/04
	Client Contact: Peter McIntyre	Date Extracted: 10/14/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 10/14/04
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Methyl tert-Butyl Ether*	Work Order: 0410176

traction method: S	W5030B	-	alytical methods: SW8260B	Work Order:	0410176	
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF		
001B	MW-l	w	4400	200	106	
002B	MW-2	w	2.6	1	105	
003B	MW-3	w	ND	1	108	
004B	MW-4	w	360	10	111	
005B	MW-5	w	7700	330	105	
	4					
					<u></u>	
					-	
					-	
	- Li-i4 6 DE -1-	¥37	0.5		ıa/I	

Reporting Limit for DF =1;	W	0.3	μg/L
ND means not detected at or above the reporting limit	S	NA	NA
			.i.

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; k) client defined reporting limit.

RL = Reporting Limit; MDL = Method Detection Limit; DF = Dilution Factor; J = Estimated value; concentration detected between the MDL and RL.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0410176

EPA Method: SW8021E	3/8015Cm E	Extraction:	SW5030	3	Batch	ID: 13559	s	Spiked Sample ID: 0410177-008A				
Anal√te	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
Allayto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
TPH(btex) [£]	ND	60	95.2	94.3	0.939	97.6	96.6	1.08	70	130		
МТВЕ	ND	10	98.1	104	6.11	97.4	95.7	1.79	70	130		
Benzene	ND	10	103	105	2.01	99.7	98.3	1.40	70	130		
Toluene	ND	10	97	98.4	1.47	91.6	92.7	1.25	70	130		
Ethylbenzene	ND	10	100	102	1.01	99.6	97.4	2.23	70	130		
Xylenes	ND	30	85.7	89.7	4.56	89.7	85.7	4.56	70	130		
%SS:	100	10	108	109	1.56	103	103	0	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0410176

EPA Method: SW8260B	E	xtraction:	SW5030E	3	Batch	ID: 13560	S	Spiked Sample ID: 0410184-002A				
	Sample Spiked		MS* MSD*		MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria		criteria (%)		
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
Methyl-t-butyl ether (MTBE)	ND	10	104	112	6.96	96.4	94.2	2.27	70	130		
%SS1:	110	10	102	106	3.41	100	99	1.31	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

H-----

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0410176

ClientID: AEL

Report to:

Peter McIntyre

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

TEL:

(925) 283-6000

FAX:

(925) 283-6121

ProjectNo: #8262; Cruise America

PQ:

Bill to:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

10/13/04 Date Received:

Date Printed:

Requested TAT:

10/13/04

5 days

Walnut Creek, CA 94597		PO:							Waln	ut Creel	c, CA 94	1597			Date .	Printed.	•	10/13	/04
										Reques	ted Test	s (See I	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0410176-001	MW-1	Water	10/13/04		Α	В	Ţ .										<u> </u>		
0410176-002	MW-2	Water	10/13/04		Α	В		<u> </u>											
0410176-003	MW-3	Water	10/13/04		Α	В												<u> </u>	
0410176-004	MW-4	Water	10/13/04		Α	В							\bot						
0410176-005	MW-5	Water	10/13/04		Α	В								<u> </u>				-	

Test Legend:

1	G-MBTEX_W
6	
11	

2	MTBE_W
7	
12	

3	
8	
13	

4	
9	
14	

5	
10	
15	

Prepared by: Melissa Valles

Comments:

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.

CHAIN OF CUSTODY RECORD McCAMPBELL ANALYTICAL INC. 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME 5 DAY 72 HR PACHECO, CA 94553-5560 RUSH 24 HR 48 HR Fax: (925) 798-1622 Telephone: (925) 798-1620 ≥ No. ☐ Yes EDF Required? Comments Other Analysis Request Bill To: same Report To: Peter McIntyre Grease (5520 E&F/B&F) Company: AEI Consultants 2500 Camino Diablo, Suite 200 EPA 625 / 8270 / 8310 E-Mail: pmcintyre@aeiconsultants.com Walnut Creek, CA 94597 878 Total Petroleum Hydrocarbons (418.1) Fax: (925) 944-2895 Tele: (925) 944-2899 Project #: Chuine America Project Name: 8267 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) , Oak level Project Location: 66. - Auc BTEX & TPH as Gas (602/8020 Sampler Signature: Howkin NIPKO Total Petroleum Oil & METHOD TPH as Diesel (8015) MATRIX **SAMPLING** PRESERVED PAH's / PNA's by CAM-17 Metals EPA 624 / 8260 EPA 601 / 8010 EPA 625 / 8270 EPA 608 / 8080 MTBE **SAMPLE ID** LOCATION Sludge (Field Point Name) HNO. Other Time Other Date Ece HC Soil Air RCI × × 101304 (101) × ×× MW-1 × $|\gamma|_{X}$ MW-2 አ MW-3 MW-4 MW - 5 Time: Received By: Relinquished By: Date: VOAS O&G METALS OTHER 10/13 6:400 PRESERVATION ICE/t° Received By: GOOD CONDITION **APPROPRIATE** Time: Date: Relinguished By: CONTAINERS HEAD SPACE ABSENT PERSERVED IN LAB DECHLORINATED IN LAB Time: Received By: Date: Relinquished By:



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruige America	Date Sampled:	01/11/05
2500 Camino Diablo, Ste. #200		Date Received:	01/11/05
Walnut Creals CA 04507	Client Contact: Peter McIntyre	Date Reported:	01/19/05
Walnut Creek, CA 94597	Client P.O.:	Date Completed:	01/19/05

WorkOrder: 0501122

January 19, 2005

Dear Peter:

Enclosed are:

- 1). the results of 5 analyzed samples from your #8262; Cruige America project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruige America	Date Sampled:	01/11/05
2500 Camino Diablo, Ste. #200		Date Received:	01/11/05
W. 1 . 0 . 1 . 0 . 1 . 1 . 1 . 1 . 1 . 1	Client Contact: Peter McIntyre	Date Extracted:	01/12/05-01/13/05
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed:	01/12/05-01/13/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	method: SW5030B		, , ,	Analytical	methods: SW8021	B/8015Cm		Work (Order: 0	501122
Lab ID	Client ID	Matrix	TPH(g)	МТВЕ	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	110,a	880	8.8	4.2	ND	ND	1	113
002A	MW-2	w	74,a	ND	2.6	11	2.1	10	1	107
003A	MW-3	w	68,a	ND	2.2	9.0	1.7	8.5	1	105
004A	MW-4	w	ND	450	1.0	2.1	ND	1.8	ı	112
005A	MW-5	w	ND<100.j	3000	1.5	3.3	ND<1.0	2.3	2	112
				~~						
			:							
		4								
			~							
<u>}</u>										
									1 1 2 2 1 1	
	g Limit for DF =1;	w	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
	is not detected at or the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #8262; Cruige America	Date Sampled: 01/11/05
2500 Camino Diablo, Ste. #200		Date Received: 01/11/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Extracted: 01/11/05
Wallat Cicck, CA 74377	Client P.O.:	Date Analyzed: 01/12/05-01/13/05

Methyl tert-Butyl Ether & t-Butyl alcohoi*

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 0501122

extraction method: Sw	סטנטנ		Analytical methods: SW8260B		WOLK O	uer: 0301122
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	t-Butyl alcohol (TBA)	DF	% SS
0501122-001B	MW-1	w	990	910	50	104
0501122-002B	MW-2	w	4.4 ND		1	113
0501122-003B	MW-3	w	ND	ND	1	106
0501122-004B	MW-4	w	430	ND<100	20	105
0501122-005B	MW-5	w	4800	1200	100	117
					_	
	- 	-				
	- · · - · - · · · · · · · · · · · · · ·			The Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract o	1 20 100	
Reporting Li	mit for DF =1;	W	0.5	5.0		g/L
	eporting limit	S	NA NA	NA	mg	/Kg

^{*} water and vapor samples in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501122

__QA/QC Officer

EPA Method: SW8021I	3/8015Cm E	extraction:	SW5030	3	Batch	ID: 14625	S	piked Sampl	e ID: 0501	109-005A
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%	
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	99.2	93	6.50	96.3	97.5	1.23	70 - 130	70 - 130
MTBE	ND	10	106	106	0	102	101	0.858	70 - 130	70 - 130
Benzene	ND	10	107	103	3.60	110	110	0	70 - 130	70 - 130
Toluene	ND	10	103	94.7	8.44	104	105	0.760	70 - 130	70 - 130
Ethylbenzene	ND	10	105	106	1.09	106	107	1.15	70 - 130	70 - 130
Xylenes	ND	30	91	95	4.30	91	95.3	4.65	70 - 130	70 - 130
%\$\$:	110	10	109	112	2.71	112	111	1.40	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501122

EPA Method: SW8021I	B/8015Cm E	extraction:	SW5030E	3	Batch	ID: 14632	S	piked Samp	le ID: 0501	128-009A
Analyte	Sample	mple Spiked		MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%
, ,	μg/L μg/L % Rec. % Rec.		% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSI		
TPH(btex) [£]	ND	60	101	97.9	3.37	103	99.9	2.86	70 - 130	70 - 130
МТВЕ	ND	10	98.3	98.8	0.479	103	98.5	4.22	70 - 130	70 - 130
Benzene	ND	10	104	107	3.08	105	106	0.963	70 - 130	70 - 130
Toluene	ND	10	101	104	2.50	102	102	0	70 - 130	70 - 130
Ethylbenzene	ND	10	104	106	1.37	105	106	1.42	70 - 130	70 - 130
Xylenes	ND	30	91.7	95	3.57	95	95.7	0.699	70 - 130	70 - 130
%SS:	104	10	109	111	1.63	108	107	0.648	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501122

EPA Method: SW8260B		Extraction:	SW5030	3	Batch	ID: 14626	s	Spiked Sample ID: 0501109-012C								
Analyte	Sample			MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (9							
Analyte	µg/L			% Rec. % Rec.		% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD						
Methyl-t-butyl ether (MTBE)	ND	10	114	115	0.970	98.3	94.6	3.85	70 - 130	70 - 130						
%SS1:	114	10	99	103	3.71	103	101	1.39	70 - 130	70 - 130						

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix; Water

QC Matrix: Water

WorkOrder: 0501122

EPA Method: SW8260B	E	Extraction:	SW5030E	3	Batch	ID: 14633	s	Spiked Sample ID: 0501128-008B								
Analyte	Sample	mple Spiked MS*		MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (
	µg/L µg/L		% Rec.	% Rec. % Rec.		% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD						
Methyl-t-butyl ether (MTBE)	ND	10	114	111	2.93	99.4	97.5	1.92	70 - 130	70 - 130						
%SS1:	113	10	98	100	1.33	103	101	1.80	70 - 130	70 - 130						

 $All \ target \ compounds \ in \ the \ Method \ Blank \ of \ this \ extraction \ batch \ were \ ND \ less \ than \ the \ method \ RL \ with \ the \ following \ exceptions:$

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0501122

ClientID: AEL

Report to:

Peter McIntyre All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

TEL: FAX: (925) 283-6000

(925) 283-6121

ProjectNo: #8262; Cruige America PO:

Bill to:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

Date Received:

Requested TAT:

01/11/2005

5 days

Date Printed:

01/11/2005

Walnut Creek, CA 94597		ΕΟ.									.,								
										Reques	ted Tes	ts (See	legend l	pelow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5.1	•																		
0501122-001	MW-1	Water	1/11/05		Α	В												ļ	_
0501122-002	MW-2	Water	1/11/05		Α	В]			<u> </u>						-			-
0501122-003	MW-3	Water	1/11/05		Α	В					1			ļ				ļ .	
0501122-004	MW-4	Water	1/11/05		Α	В									ļ		ļ		
0501122-005	MW-5	Water	1/11/05		Α	В		<u></u>	<u> </u>		l				<u> </u>		<u></u>	<u> </u>	

Test Legend;

1	G-MBTEX_W
6	
11	

2	MTBE_W
7	
12	

3	
8	
13	

4	,
9	
14	

5	
10	
15	

Prepared by: Rosa Venegas

Comments:

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.

100/

0501122

_	Telephone: (925) 798-1620 Fax: (925) 798-1622										EDF Required? Yes No													Û / 5 DAY									
	Report To: Peter McIntyre Bill To: same										Analysis Request Other Com											Comn	ents										
	Company: AEI C															6												3	•				
	2500 (Camino Dia	blo, Suite	200											İ	B&cl												80	•				
	Waln	ut Creek, C	A 94597	·····	E-M	(all: ¡	omeii	ntyre(gaei:	const	altan	s.cor	n	8015)/MTBE	-	&F/							55						١			•	
	Tele: (925) 944-2			F	ax: (925)	94	4-289	5					S/M		20 E						ļ	8/6					80	,				
	Project #: 676	(2		P	rojec	t Nai	me: (C.V.C	A.C		\int_{A}	er/i	(B	801		(552	4	le	5			- 1	827						•				
	Project Location:	66 Th	hue.	Oak	- 100	1		k	• 1)	,	, .		5-17	50 +		Greasu (5520 E&F/B&F)	pous	807		ξŢ			25 /			6			.		1		
	Sampler Signatur	e: F/1/v	Lan	Dak	771	,								2/80:		Š	ocar	6	j	ő			A 6.			2/60		·			ł		
		77.6	SAMP					MAT	RIX	(ETH(SER		Gas (602/8020	8015)	Oil &	Hydr	FPA 6		PCB,			by EP	s/a		1/239.		4					
	SAMPLE ID (Field Point Name) LOCATION					Other	TPH as	TPH as Diesel (8015)	Total Petroleum	Total Petroleum Hydrocarbons (418.1)	BTEX ONLY (FPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI		5				3							
(4)	M110-1	1	\$11.105		3	Verg	$\mathbf{J}_{\mathbf{X}}$				\sqrt{v}	<i>^</i>		V			\top											$\chi^{_1}$			7	······	***************************************
an	200		ر را () () () () ()	1	43	11	/	+	+			_	+				-	+	-								1		\dashv		+		
0/	Mary		,		- 	١,٢	A		+	 		4	+	Х		-		+-										X			- -		
(-1	Muler 3		17	 		<u> </u>		-		 	4	X _	+	X	_	_	-		-			4	_					겆			+		
77	Miv-y		11		11	7.0	$ \wedge $	_	\bot		<u> </u>	Υ.	1	<i>></i>		_	\perp	\perp	\perp											-	_		
(4)	Mu-5		1,1		1	(1	X		J		Δ	X	-	图																_			
`	,								╽																								
								-									ĺ						-										
											\Box																						
											\top		\top					-											\neg	\top			
				1		<u> </u>	1-	+	+		+		+-									\dashv	-					+	-	\dashv	- -		
							1		+		+	-	+		-			+	+-	-		\dashv							-		+		
				ļ	 	<u> </u>	-	-	+		\dashv	-	-	$\vdash \vdash$					\dashv				_					-			- -		
					ļ						_		-									_							_	_	_ _		
j										ļ	\perp		1				\perp	_ _											_ _		_		
																				,											\perp		
	Relinquished By: Date: Time: Received By: A My 1/19/7 / 19/05 2:30												7											~ . ~	ا ا	ا			0.000				
	Han IV									,	CE/	٠ ١	J			1		F	RE	SER	RVA	TIC		OAS /	0&	:ti	ME	TALS	OTHER				
4+ 1	Relinquished By: Date: Time: Received By:								C	000	D C				<u>٧</u>	-/	A	(PP)	ROI	PRI	ATE		/ 	<u></u>		L—							
·	Relinquished By; Date: Time: Received By:													GOOD CONDITION APPROPRIATE HEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PERSERVED IN LAB																			