

March 16, 2005

**PHASE II SUBSURFACE
INVESTIGATION REPORT**

268
689 81st Avenue
Oakland, California

Project No. 10622

Prepared For

Rico & Richard Merlino
1001 83rd Avenue
Oakland, CA 94621

Prepared By

AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, CA 94597
(925) 944-2899

Alameda County

MAR 23 2005

Environmental Health

AEI

DOWNA DRUGS

From :

FRED PERKINS

925 - 200 - 4378

LEAD 1115
APPT 11/10/11



March 16, 2005

Rico & Richard Merlino
1001 83rd Avenue
Oakland, CA 94621

Subject: Phase II Subsurface Investigation

989 689 81st Avenue
Oakland, California
Project No. 10622

Dear Messrs. Merlino:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The scope of work for this investigation was designed to determine if releases of fuel hydrocarbons, automotive fluids and/or cleaning solvents have impacted the site.

I Background

The subject property is located on the southern side of 81st Avenue in an area of mixed commercial, light industrial and residential usage. The subject property can be accessed via a driveway from 81st Avenue, in addition a driveway at the western end of 83rd Avenue. The property totals approximately 2.19 acres and is improved with a single-story warehouse-type building with mezzanine totaling approximately 18,000 square feet which is currently occupied by D. Merlino & Sons Alita Brand Macaroni, a pasta manufacturing business. However, manufacturing operations ceased in approximately March 2004. The property was developed with this building in approximately 1947.

The subject property is also developed with a Quonset hut that is currently used as a residence, as well as a shed-type building currently used for storage of miscellaneous items and a few vehicles. The remainder of the subject property consists of a mostly unpaved yard.

AEI Consultants (AEI) conducted a Phase I Environmental Site Assessment (ESA) in January 2004. Based on a review of historical sources, D. Merlino & Sons has occupied the warehouse building since development in 1947. The remainder of the subject property, including the Quonset hut, has been occupied by various businesses related to storage, salvage, and hauling of trucks and other vehicles. A review of the files of agencies having regulatory oversight found the following.

- A Notice of Violation (NOV) was issued by the Oakland Fire Department, Office of Emergency Services (OFD-OES) on July 26, 2004. This letter stated that a complaint inspection was conducted at the subject property on July 16, 2004 during which the following violations were noted: improper management of waste oil and flammable liquids; evidence of spillage of hazardous waste fluid to the ground; and improper outside storage of metal containers and automotive and truck parts. Required actions were for the proper disposal of all hazardous waste containers, waste oil and automotive fluids; removal of any petroleum hydrocarbon contaminated soil; sampling of the soil for petroleum hydrocarbons and metals along the fence line; and providing cover for all scrap metals to prevent exposure to the rain. The OFD-OES also requested the disposal receipts of containers and contaminated soil as proof of disposal; and certified laboratory analysis of soil sampling results. According to the OFD-OES inspector, Mr. Leroy Griffin, the subject property owners have not yet responded to this NOV. The documentation of "spillage of hazardous waste fluid to the ground" during this inspection, as well as previous inspections (discussed in the bullet below) represents a recognized environmental condition.
- The structurally undeveloped portions of the subject property have historically been used for a hauling business, as a scrap metal yard, for storage of salvage vehicles, and parking of miscellaneous vehicles, in addition to general storage of miscellaneous items. Historical inspection records on file at the OFD-OES, indicate a poor compliance history and poor housekeeping practices relating to hazardous materials at this portion of the site. For example, during a series of three inspections conducted in 1994 and 1995, spills to the ground were identified in relation to hazardous material containers, as well as leaks from vehicles stored onsite. In some cases, the spill was noted to have contaminated the dirt. The documented poor housekeeping practices and compliance history as it relates to hazardous materials represent a recognized environmental condition.

AEI's investigation has revealed the following historical recognized environmental conditions associated with the subject property:

- One 1,000-gallon gasoline underground storage tank (UST) and one 1,000-gallon diesel UST were removed from the subject property in August 1996. Following the tank removals, four confirmation soil samples were collected. Analytical results of the sidewall soil samples reported up to 66 parts per million (ppm) Total Petroleum Hydrocarbons as diesel (TPH-d). The groundwater sample reported concentrations of 8,300 parts per billion (ppb) TPH-d, 130 ppb Total Petroleum Hydrocarbons as gasoline (TPH-g), 1.0 ppb benzene, and concentrations below laboratory reporting limits for methyl tertiary butyl ether (MTBE), toluene, ethylbenzene, and xylenes.

Upon completion of a sensitive report survey, which found no known surface waters and only one possible sensitive receptor (an irrigation well at 1001 81st Avenue), a Remedial Action Completion Certification was issued by the Alameda County Health Care Services Agency

(ACHCSA) on November 7, 2002. However, the Remedial Action Completion Certification did note that 66 ppm TPH-d remains in the soil at the site and 130 ppb TPH-g, 8,300 ppb TPH-d, and 1 ppb benzene remain in the groundwater at the subject property.

II Investigative Efforts

AEI performed the subsurface investigation at the property on March 4, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). Drilling permit number W05-0218 was issued by ACPWA. A copy of the drilling permit is attached as Appendix A. Underground Service Alert (USA) was notified more than two business days prior to the drilling to allow local utilities to be marked. Notification of the drilling schedule was made to the county. No county inspector made an appearance at the site.

Fifteen (15) soil borings (DP-1 through DP-15) were advanced to depths ranging from 4 to 16 ft. bgs. Soil samples were collected from all boring at depths of 2.0 feet (hand driven) to 3.5 feet to evaluate potential impact to shallow soil by surface releases of automotive fluids and solvents. Four borings (DP-1, DP -2, DP -7, and DP-8) were advanced to total depths ranging from 8-foot bgs to 12-foot bgs to collect groundwater samples. The locations of the soil borings are shown on Figure 2.

Soil Sample Collection

The temporary borings were advanced with a Geoprobe[®] model 5410 direct-push drilling rig by Vironex, a licensed California drilling contractor (C57 - 705927)

Each of the fifteen (15) soil borings were hand cleared to a depth of 2 feet bgs, except in the hand driven borings DP10 and DP-15, to confirm the presence of native soil and not backfilled utility trench. Soil was then continuously cored in each boring using an approximately 2" outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 4-feet in length. One sample was cut from the liners at a depth of 2.0 feet in hand driven borings and 3.5 feet bgs in all other borings and retained for possible chemical analysis. Additional soil samples were selected and retained from other depths as deemed necessary, based on field observations. The borings were logged by the AEI geologist using the Unified Soil Classification System (USCS). Copies of the boring logs, including depth of samples collected are included in Appendix B.

The soil samples retained for possible chemical analysis were sealed with Teflon film and plastic end-caps. Each sample was labeled with at minimum, company name and project number, unique sample identifier, sampler's name, time and date of collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory. The remainder of each core was examined and described by the AEI geologist. The descriptions of the cores are included on the boring logs that are included in Appendix B.

Groundwater Sample Collection

Groundwater samples were collected from four (4) deeper soil borings that encountered water (DP-1, DP-2, DP-7, DP-8). When groundwater was encountered, a new unused, ¾-inch PVC casing was placed in the boring to facilitate collection of the water samples. The casing consisted of 5-feet of 0.010-inch slotted casing and sufficient blank casing to rise above the ground surface. The water samples were collected using ¼-inch polyethylene tubing with a check valve on the bottom. Water samples were collected directly into three 40-milliliter (ml) volatile organic compound vials (VOAs).

Each sample was labeled with at minimum, company name and project number, unique sample identifier, sampler's name, time and date of collection. The samples were placed in individual zipper locking bags and placed in a cooler with water ice, pending transportation to the laboratory.

Boring Destruction

Following sample collection, each boring was sealed to the surface with neat cement emplaced through a tremie pipe in accordance with Alameda County Public Works Agency and State of California guidelines. Notification of the drilling schedule was made to the county.

Laboratory Analysis

On January 14, 2005, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol. One soil and one groundwater sample from each boring were selected for chemical analysis, except the samples from borings DP-3 and DP-5. These were placed on hold at the laboratory for potential additional analysis. The results of soil and groundwater analyses are shown on Tables 1 through Table 4. Chain of custody documents and copies of the analytical reports are included in Appendix C

The selected soil samples were analyzed for Multi-range petroleum hydrocarbons; Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d), Total Petroleum Hydrocarbons as motor oil (TPH-mo) by EPA method 8015C. Four soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B.

Groundwater samples were analyzed for Multi-range petroleum hydrocarbons, TPH-g, TPH-d and TPH-mo by EPA Method 8015C. Analysis for volatile organic compounds (VOCs) was performed by EPA Method 8260B.

III Findings

Soil Analyses

No detectable concentrations of TPH-g, TPH-d or TPH-mo were reported in any of the soil samples except DP4-3.5 above detection limits of ND<1.0 mg/kg, ND<1.0 mg/kg and ND<5.0 mg/kg respectively. TPH-d and TPH-mo was detected in sample DP4-3.4 at a concentration of 17 mg/kg and 48 mg/kg respectively. No detectable concentrations of VOCs were reported in any of the soil samples analyzed.

Analysis of soil samples for LUFT Metals reported no Cadmium above a detection limit of 1.5 mg/kg. Total chromium was reported at concentrations ranging from 61 mg/kg (DP15-3.5) to 86 mg/kg (DP13-3.5). Soil sample DP13-3.5 is being analyzed for chromium VI. The results of this analysis will be reported in a letter addendum when received. Lead was reported at a concentration of 46 mg/kg in sample DP4-3.5 with lead concentrations ranging from 7.8 mg/kg (DP13-3.5) to 12 mg/kg (samples DP1-4, DP7-3.5 and DP15-3.5) in the other soil samples. Nickel concentrations reported ranged from 47 mg/kg (DP1-4) to 65 mg/kg (DP4-3.5). Zinc was reported at a concentration of 2,200 mg/kg in sample DP4-3.4, while zinc ranged from 55 mg/kg (DP15-3.5) to 62 mg/kg (DP1-4 and DP7-3.5) in the other soil samples.

Groundwater Analyses

No TPH-g was reported in water samples DP1-W, DP2-W or DP-8-W at a reporting limit of ND<50 µg/L. TPH-g was reported in sample DP-7-W at a concentration of 57 µg/L.

TPH-d was reported in all four groundwater samples at concentrations ranging from 160 µg/L to 210 µg/L. TPH-mo was reported in three groundwater samples (borings DP-1, DP-2 and DP-8) at concentrations ranging from 690 µg/L (DP2-W) to 1400 µg/L (DP8-W). No TPH-mo was reported in the water sample from boring DB-7 at a detection limit of 250 µg/L.

Tetrachloroethene (PCE), Trichloroethene (TCE) and cis 1,2-Dichloroethene (DCE) were detected in groundwater samples from borings DP-1, DP-2 and DP-7. No PCE, TCE or DCE were reported in the water sample from boring DP-8 at a reporting limit of 0.5 µg/L. The TCE and DCE may represent compounds released in the area or they may be the result of insitu degradation of PCE.

Acetone was reported in groundwater samples from boring DP-7 (65 µg/L) and DP-8 (36 µg/L). No Acetone was reported in groundwater from borings DP-1 and DP-2.

Methyl-tert-butyl ether (MTBE) was reported at concentrations of 1.0 µg/L and 0.68 µg/L in groundwater from borings DP2 and DP-7, respectively.

Ethylbenzene and xylenes were reported in the groundwater from boring DP-7 at concentrations of 1.4 and 11 respectively. No ethylbenzene or xylenes were reported in groundwater samples from borings DP-1, DP-2 and DP-8.

VI Recommendations

AEI recommends the following actions:

- Submission of a copy of this report to the ACHCSA as the detection of contaminants not previously known requires.
- Request an immediate determination as to whether any further action will be required relative to the TPH-d, TPH-mo and CVOCs detected.

VII Report Limitation

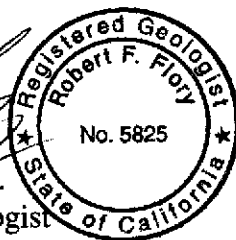
This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and 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 field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact Peter McIntyre or Robert Flory at (925) 944-2899.

Sincerely,
AEI Consultants


Robert F. Flory, P.G.
Senior Project Geologist




Peter J. McIntyre, PG
Program Manager

Figures

Figure 1: Site Map

Figure 2: Site Plan

Figure 3: Groundwater TPH Concentrations

Figure 4: Groundwater VOC Concentrations

Tables

Table 1: Soil Sample Analytical Data, TPH

Table 2: Soil Sample Analytical Data, LUFT Metals

Table 3: Groundwater Sample Analytical Data, TPH

Table 4: Groundwater Sample Analytical Data, VOCs

Appendix A *Boring Permit*

Appendix B *Boring Logs*

Appendix C *Laboratory Analyses*



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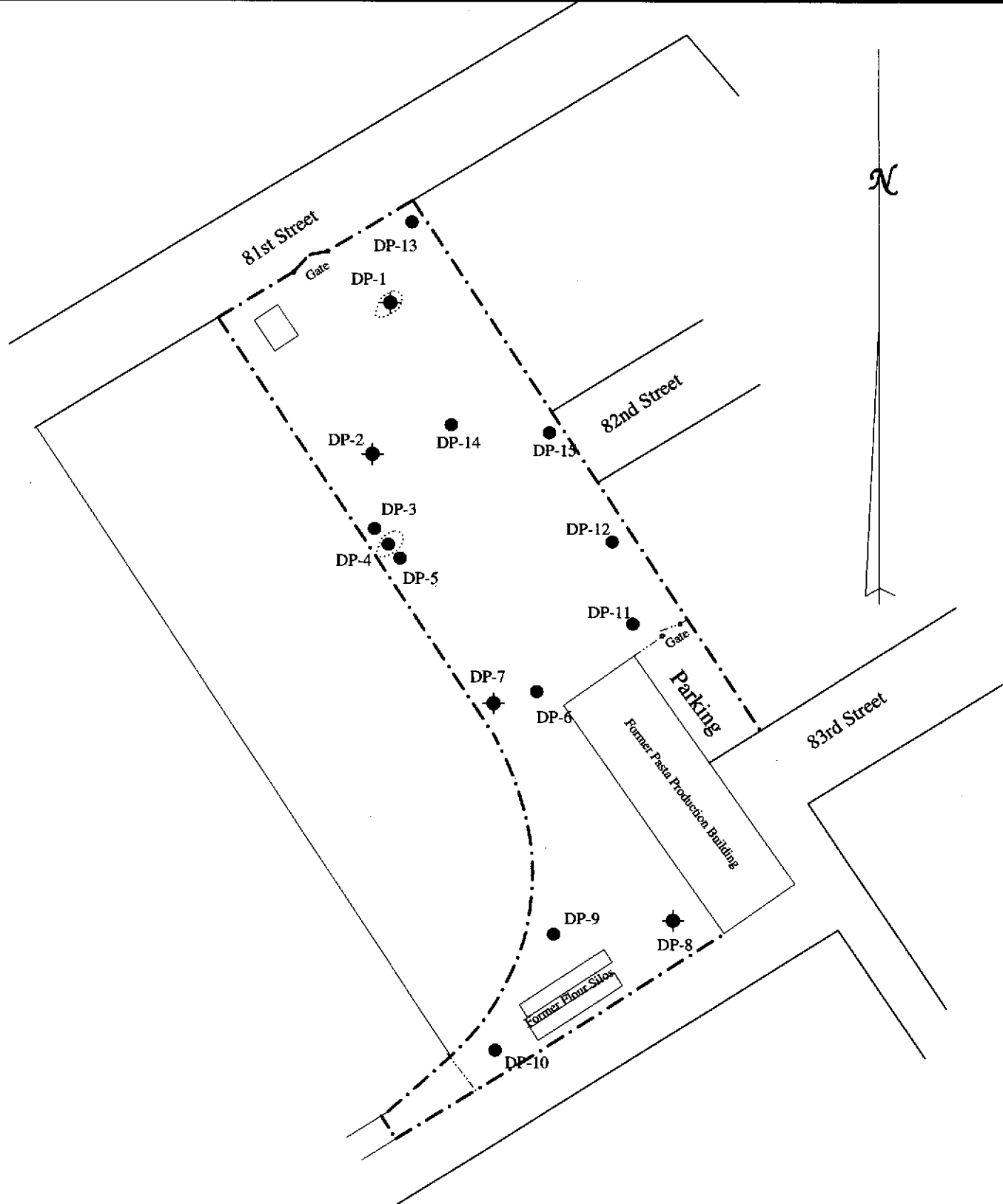
0 1000 FEET 0 500 1000 METERS
0 5 1 MILE

Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

USGS TOPOGRAPHIC MAP
OAKLAND EAST QUADRANGLE
Created 1997, Current as 1997

AEI CONSULTANTS 2500 Camino Diablo, Suite 100, Walnut Creek, CA 94597	
SITE LOCATION PLAN	
968 81st Ave. Oakland, California	FIGURE 1 Job No: 10622

N

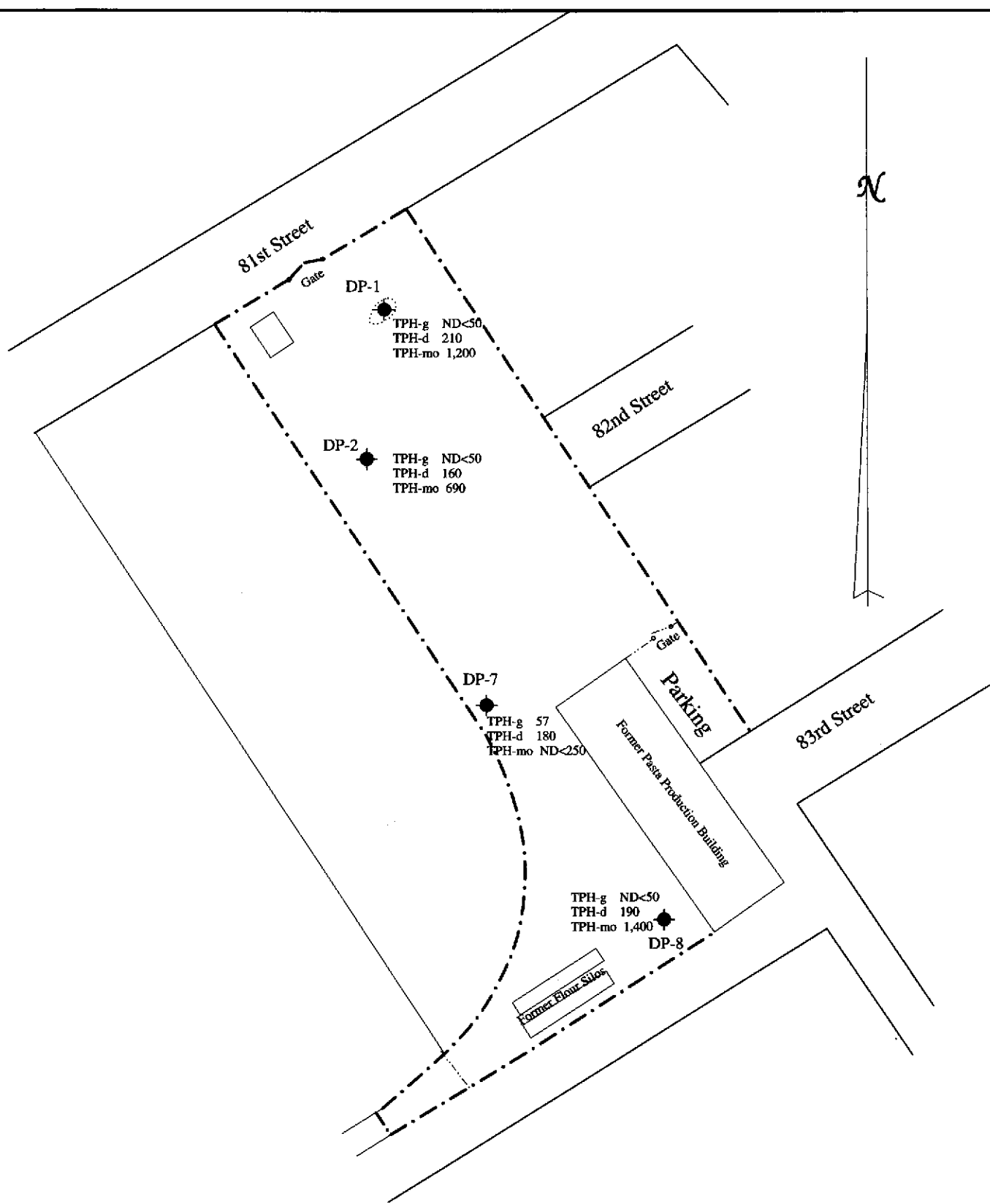


LEGEND

- Soil Boring Total Depth 3' - 4' Soil samples only
- ◆ Soil Boring Total Depth 8' - 16' with water sampling
- Area of surface staining
- · - · - Property Boundary - Fence
- - - - - Fence

Scale 1" = 100'

AEI CONSULTANTS 2500 CAMINO DIABLO, SUITE 100 WALNUT CREEK, CA	
SITE PLAN	
968 81st STREET OAKLAND, CALIFORNIA	FIGURE 2 Project No. 10622

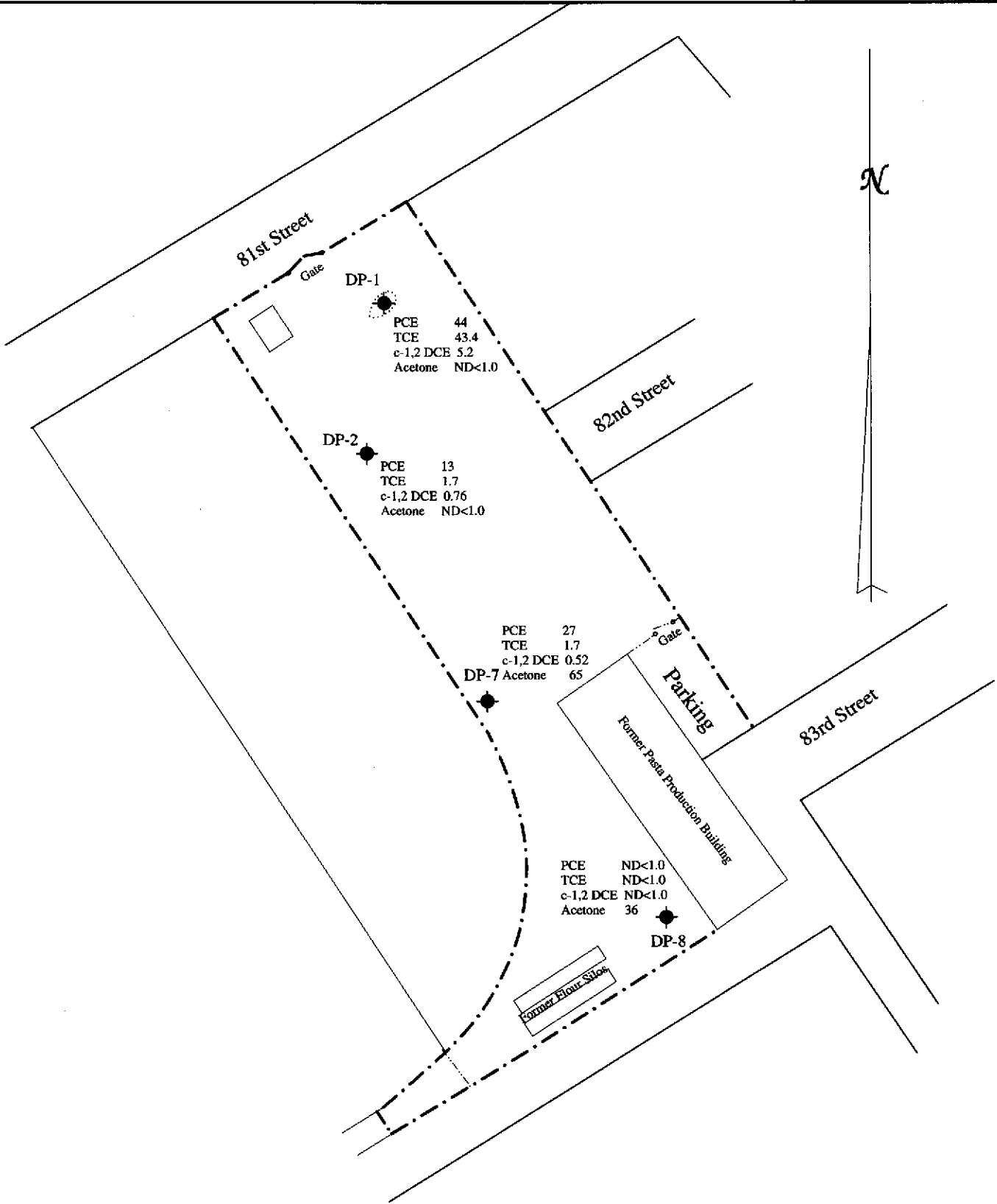


LEGEND

- ◆ Soil Boring Total Depth 8' - 16' with water sampling
- Area of surface staining
- · - · - Property Boundary - Fence
- - - - - Fence

Scale 1" = 100'

AEI CONSULTANTS 2500 CAMINO DIABLO, SUITE 100 WALNUT CREEK, CA	
GROUNDWATER TPH CONCENTRATIONS	
968 81st STREET OAKLAND, CALIFORNIA	FIGURE 3 Project No. 10622



N

LEGEND

- ◆ Soil Boring Total Depth 8' - 16' with water sampling
- Area of surface staining
- .- Property Boundary - Fence
- Fence

Scale 1" = 100'

AEI CONSULTANTS 2500 CAMINO DIABLO, SUITE 100 WALNUT CREEK, CA	
GROUNDWATER VOC CONCENTRATIONS	
968 81st STREET OAKLAND, CALIFORNIA	FIGURE 4 Project No. 10622

**Table 1: Soil Sample Analytical Data, Total Petroleum Hydrocarbons
968 81st Avenue, Oakland, CA**

Sample ID	Sampling Date	TPH-g mg/kg	TPH-d mg/kg <i>(EPA method 8015M)</i>	TPHmo mg/kg
DP1-4	3/4/2005	ND<1.0	ND<1.0	ND<5
DP2-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP4-3.5	3/4/2005	ND<1.0	17	48
DP6-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP7-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP8-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP9-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP10-2.0	3/4/2005	ND<1.0	ND<1.0	ND<5
DP11-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP12-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP13-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP14-3.5	3/4/2005	ND<1.0	ND<1.0	ND<5
DP15-2.0	3/4/2005	ND<1.0	ND<1.0	ND<5

RWQCB guideline for Commercial/Industrial use. 400 500 1000

RWQCB guideline for Residential use. 100 500 500

TPH-g = Total petroleum hydrocarbons as gasoline
 TPH-d = Total petroleum hydrocarbons as diesel
 TPHmo = Total petroleum hydrocarbons as motor oil

Table 2: Soil Sample Analytical Data, LUFT Metals
968 81st Avenue, Oakland, CA

Sample ID	Sampling Date	Cadmium mg/kg	Total Chromium mg/kg	Lead mg/kg	Nickel mg/kg	Zinc mg/kg
<i>EPA Method 6010C</i>						
DP1-4	3/4/2005	ND<1.5	79	12	47	62
DP4-3.5	3/4/2005	ND<1.5	75	46	65	2,200
DP7-3.5	3/4/2005	ND<1.5	65	12	51	62
DP9-3.5	3/4/2005	ND<1.5	69	9.3	49	58
DP13-3.5	3/4/2005	ND<1.5	86	7.8	52	58
DP15-2.0	3/4/2005	ND<1.5	61	12	53	55
RWQCB guideline for Commercial/Industrial use.		7.4	750*	200	150	600
RWQCB guideline for Residential use.		1.7	750*	750	150	600

Notes

* Level for Chromium III - analysis reported is for Total chromium (Chromium III and Chromium VI) , Chromium VI level is 1.8 mg/Kg

**Table 3: Groundwater Sample Analytical Data, Total Petroleum Hydrocarbons
968 81st Avenue, Oakland, CA**

Sample ID	Sampling Date	TPH-g mg/L	TPH-d mg/L <i>(EPA method 8015M)</i>	TPHmo mg/L
DP1-W	3/4/2005	ND<50	210	1,200
DP2-W	3/4/2005	ND<50	160	690
DP7-W	3/4/2005	57	180	ND<250
DP8-W	3/4/2005	ND<50	190	1,400
RWQCB Guideline for non-drinking water		500	640	640
RWQCB Guideline for drinking water		100	100	100

TPH-g = Total petroleum hydrocarbons as gasoline

TPH-d = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

**Table 4: Groundwater Sample Analytical Data, Volatile Organic Compounds
968 81st Avenue, Oakland, CA**

Sample ID	Sampling Date	PCE µg/l	TCE µg/l	c-1,2 DCE µg/l	t-1,2 DCE µg/l	VC µg/l	MTBE µg/l	ethylbenzene µg/l	xylenes µg/l	Acetone µg/l	All Others µg/l
<i>(EPA method 8260B)</i>											
DP1-W	3/4/2005	44	3.4	5.2	ND<1.0	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
DP2-W	3/4/2005	13	1.7	0.76	ND<1.0	ND<0.5	1.0	ND<1.0	ND<1.0	ND<1.0	All ND
DP7-W	3/4/2005	27	1.7	0.52	ND<1.0	ND<0.5	0.68	1.4	11	65	All ND
DP8-W	3/4/2005	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.5	ND<1.0	ND<1.0	ND<1.0	36	All ND
Groundwater- Drinking water		5	5	6	10	0.5	5	30	13	30	
Groundwater- non drinking water		120	360	590	590	4	1800	290	13	1500	

Notes:

µg/l = micrograms per liter
PCE = Tetrachloroethylene
TCE = Trichloroethylene

c-1,2 DCE = cis-1,2 dichloroethylene
t-1,2 DCE = trans-1,2 dichloroethylene
VC = vinyl chloride

APPENDIX A

Boring Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 Janet Yee
FAX (510) 782-1939

www.acfwd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 948 81st Street
Castroville, CA 94621

PERMIT NUMBER W05-0218
WELL NUMBER _____
APN _____

CLIENT
Name Rio & Robert Medina
Address 948 81st Street Phone _____
City Castroville, CA Zip 94621

APPLICANT
Name AEI Consultants / Robert F. Flory PE
Address 3500 Camino Diablo Phone 925-944-2895
City Walnut Creek, CA Zip 94597

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other Direct Push

DRILLER'S NAME Vibronex

DRILLER'S LICENSE NO. 705727

WELL PROJECTS

DIM Hole Diameter _____ in. Maximum _____ ft.
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Owner's Well Number _____

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings 15 Maximum _____
Hole Diameter 2 in. Depth 16 ft.

STARTING DATE March 4, 2005

COMPLETION DATE March 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-69.

APPLICANT'S SIGNATURE Robert F. Flory PE DATE 2/17/05

PLEASE PRINT NAME Robert F. Flory PE Rev. 5-11-04

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 30 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with cement grout.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

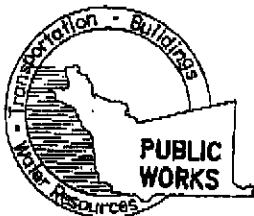
Send a copy of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - B#1

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

Drilling March 4, 2005

APPROVED _____ DATE 2-25-05

**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. W05-0218**WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE****#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES**

1. Prior to any drilling activities, it 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 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. Boreholes shall not be left open for a period of more than **24 hours**. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee, 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 statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
4. Permit is valid only for the purpose specified herein **March 4 to March 4, 2005**. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
5. 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. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
6. 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.
7. Applicant shall contact George Bolton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

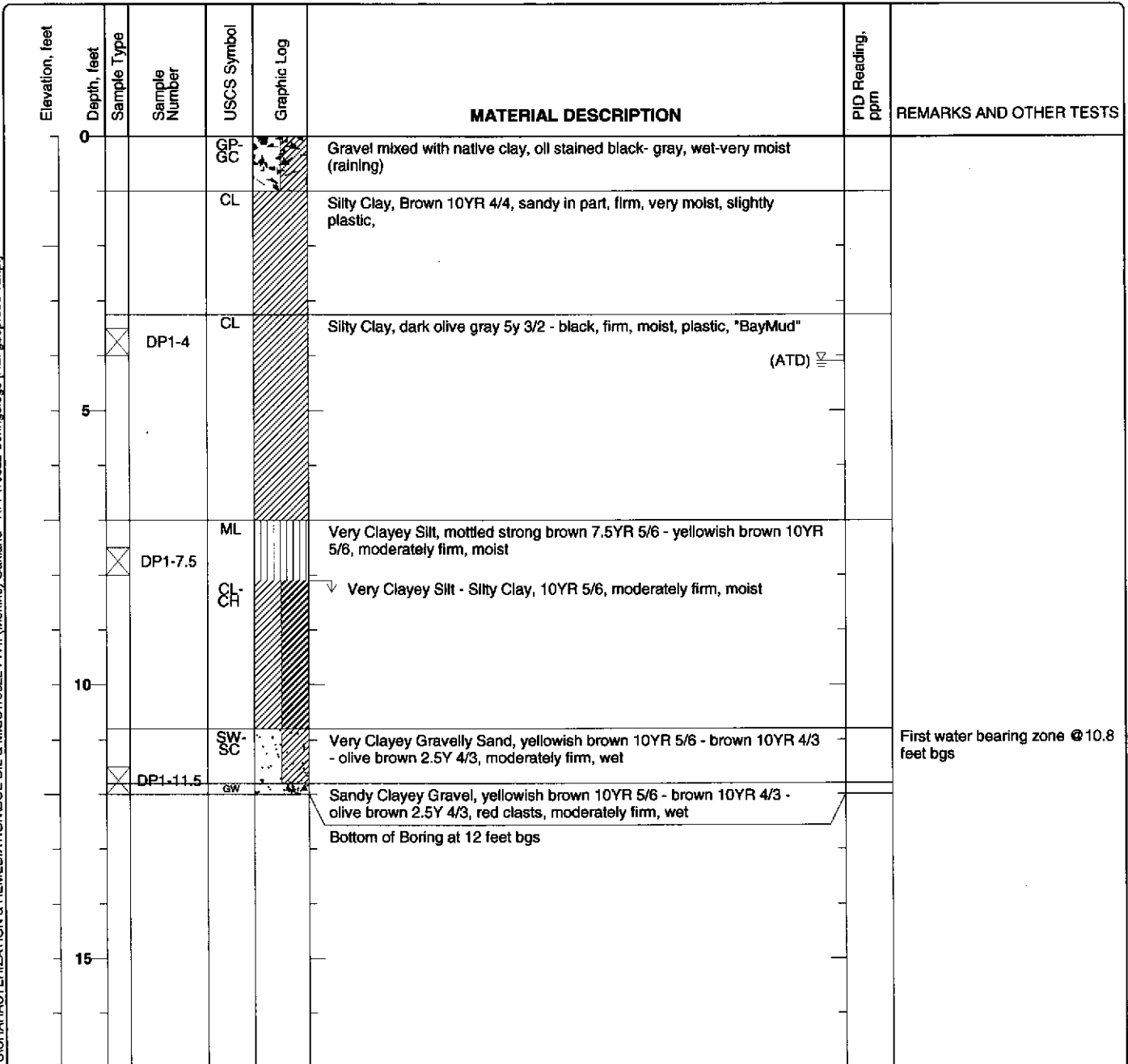
APPENDIX B

Boring Logs

Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-1
 Sheet 1 of 1

Date(s) Drilled March 4, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type	Total Depth of Borehole 12 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured 4.1 feet ATD	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Cement Slurry	Location	



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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-2
Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	12 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	3.6 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-GC		Gravel mixed with native clay, light yellowish brown 10YR6/4, wet-very moist (raining)		
				CL		Silty Clay, Brown 10YR 4/4, sandy in part, firm, very moist, slightly plastic,		
				CL		Silty Clay, dark olive gray 5y 3/2 - black, firm, moist, plastic, "BayMud"		
	3.5	X	DP2-3.5			(ATD) ∇		
5				ML		Very Clayey Silt, mottled yellowish brown 10YR 5/6 - light olive brown - olive brown 2.5Y 5/6 - 4/4, moderately firm, moist		
	7.5	X	DP2-7.5					
10				GW-GC		Sandy Gravel, yellowish brown 10YR 5/4, clayey, red clasts, firm, wet		First water bearing zone @9.0 feet bgs
				SW		Sand, yellowish brown 10YR 5/4, well graded, moderately soft - moderately firm, wet		
			DP2-11.5	SP		Sand, dark yellowish brown 10YR 4/6, poorly graded, moderately soft, wet		
						Bottom of Boring at 12 feet bgs		
15								

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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-3
Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	6 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

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Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-C		Gravel mixed with native clay, light yellowish brown 10YR6/4, wet-very moist (raining)		
				CL		Silty Clay, dark olive gray 5y 3/2 - black, firm, moist, plastic, "BayMud"		
	4.1		DP3-3.5			(ATD) \approx		Lost bottom of the core, pushed to 6.0 feet to recover 3.5' - 4.0' interval
	5			CL		Silty Clay, light brown, firm, moist		
	6					Bottom of Boring at 6 feet bgs		
10								
15								

Figure



Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-4
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GG C ₂		Gravel mixed with native clay, light brown, wet-very moist (raining) black - dark gray oil staining on surface		
				CL		Silty Clay, dark greenish gray 5G 4/1 - black, firm, moist, slightly plastic, "BayMud"		
		X	DP4-3.5			Bottom of Boring at 4 feet bgs		(ATD)
5								
10								
15								

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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-5
Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

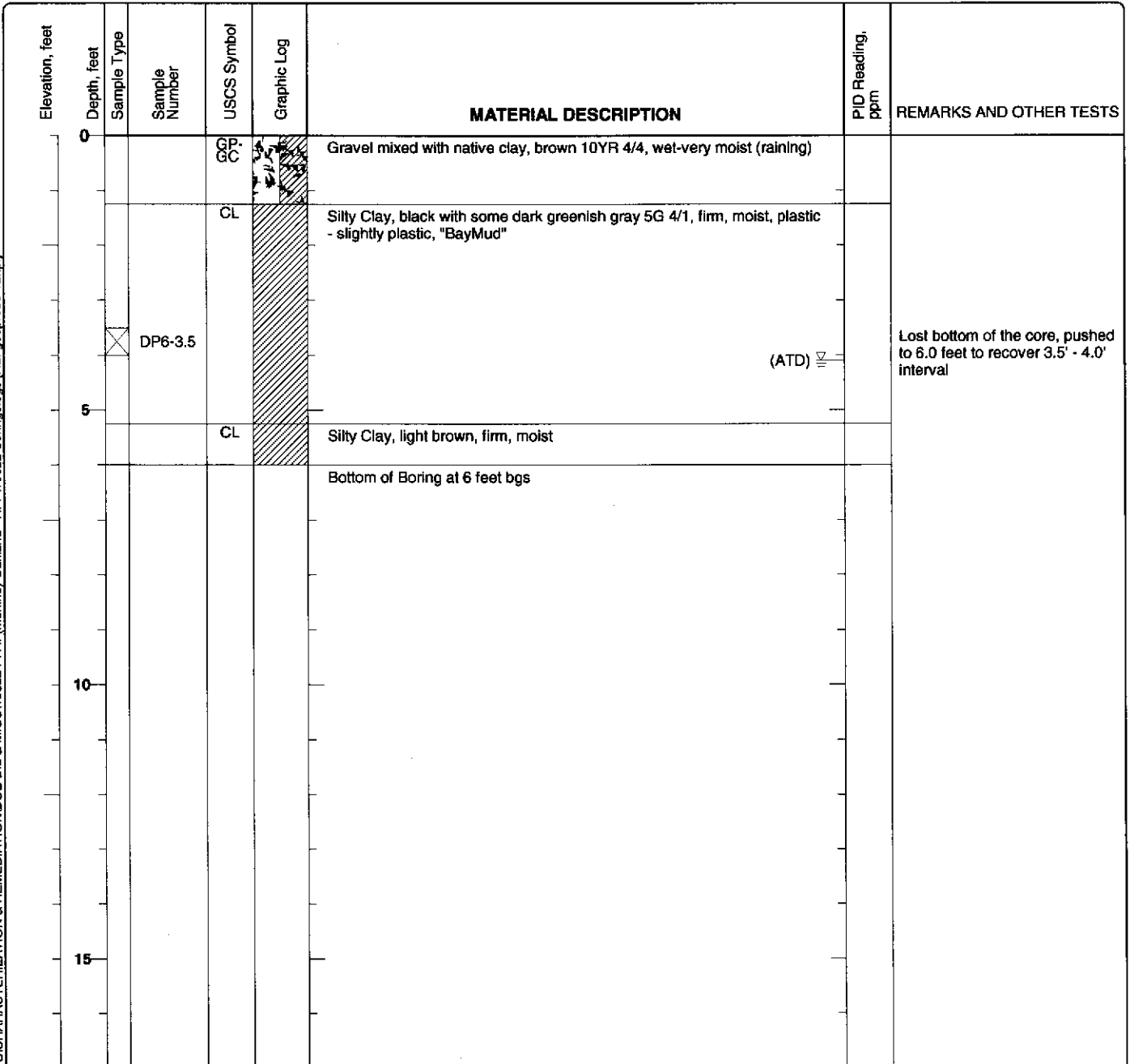
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP GC		Gravel mixed with native clay, light brown, wet-very moist (raining)		
				CL		Silty Clay, dark greenish gray 5G 4/1 - black, firm, moist, slightly plastic, "BayMud"		
		X	DP5.3.4			Bottom of Boring at 4 feet bgs		(ATD)
5								
10								
15								

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Project: Merlino
 Project Location: 689 81st Ave., Oakland, CA
 Project Number: 10622

Log of Boring DP-6
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	6 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			



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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-7
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	16 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	3.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

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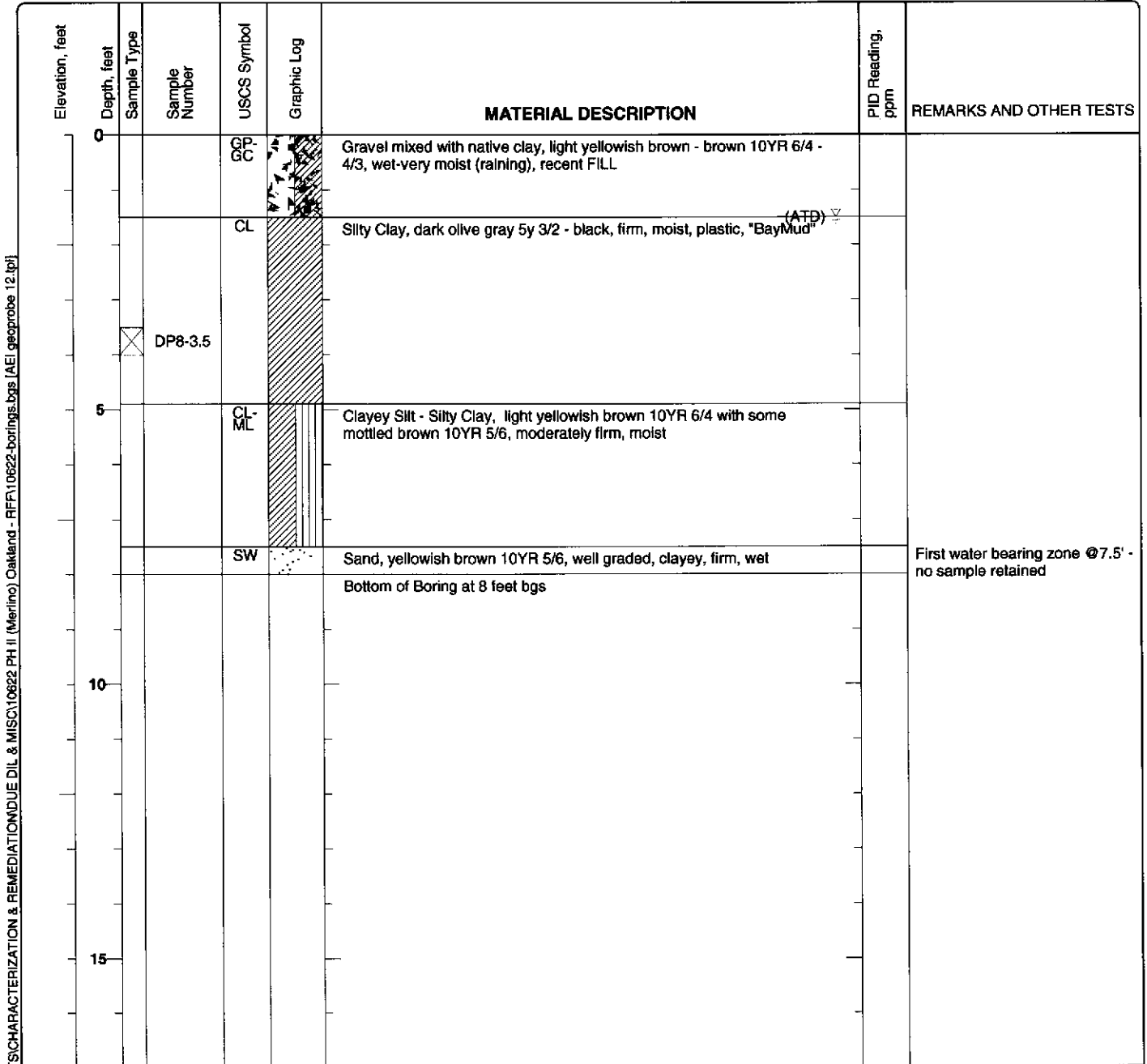
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-GC		Gravel mixed with native clay, light yellowish brown 10YR 6/4 - brown 10YR 5/6, wet-very moist (raining), recent FILL		
			DP7-3.5	CL		Silty Clay, dark olive gray 5Y 3/2 - black, firm, moist, plastic, "Bay Mud" (ATD) ∇		
			DP7-7.5	ML		Clayey Silt, mottled brown 10YR 5/6 - light yellowish brown 10YR 6/4, moderately firm, moist		
				CL-ML		Clayey Silt - Silty Clay, light yellowish brown 10YR 6/4 with some mottled brown 10YR 5/6, moderately firm, moist		
			DP7-11.5	ML		Clayey Silt, mottled brown 10YR 5/6 - light brown 10YR 6/4, becoming silty sand downward, moderately firm, moist		
				SW		Sand, yellowish brown 10YR 5/6, well graded, clayey, firm, wet		First water bearing zone @ 13.1 feet bgs
				SW		Sand, yellowish brown 10YR 5/4, moderately well graded, moderately soft - moderately firm, wet		
				SP		Gravelly Sand, dark yellowish brown 10YR 4/6, poorly graded, moderately firm, wet		
						Bottom of Boring at 16 feet bgs		

Figure

Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-8
 Sheet 1 of 1

Date(s) Drilled March 4, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2.1 inch	Total Depth of Borehole 8 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured 1.5 feet ATD	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Cement Slurry	Location	



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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-9
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 Inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	1.5 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GG Cp		Gravel mixed with native clay, light yellowish brown - brown 10YR 6/4 - 4/3, wet-very moist (raining), recent FILL		
				CL		Silty Clay, black, firm, moist, plastic, "BayMud" (ATD) ∇		
				CL		Silty Clay, dark olive green 5Y 4/4, moderately firm, moist, plastic		
		X	DP9-3.5			Bottom of Boring at 4 feet bgs		
5								
10								
15								

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Figure

Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-11
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP, GC		Gravel mixed with native clay, brown 10YR 4/4, wet-very moist (raining)		
				CL		Silty Clay, black with some dark greenish gray 5y 4/1, firm, moist, plastic - slightly plastic, "BayMud"		
		X	DP6-3.5			Bottom of Boring at 4 feet bgs		Lost bottom of the core, pushed to 6.0 feet to recover 3.5' - 4.0' interval
5						(ATD)		
10								
15								

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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-12
Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.2 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	1.5 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-GC		Gravel mixed with native clay, light yellowish brown - brown 10YR 6/4 - 4/3, wet-very moist (raining), recent FILL		
				CL		Silty Clay, dark greenish gray 5G 3/1 - black, firm, moist, plastic, "BayMud" (ATD) $\frac{1}{4}$		
		X	DP12-2.5					
						Bottom of Boring at 4 feet bgs		
5								
10								
15								

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Figure

Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-10
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 Inch	Total Depth of Borehole	3 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	1.5 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

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Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-GC		Gravel mixed with native clay, light brown - brown, wet-very moist (raining), recent FILL (ATD) ∇		
		X	DP10-2.5	CL		Silty Clay, black, firm, moist, plastic, "BayMud" No Recovery		Hand driven to 3.0 feet bgs, no recovery of bottom 6"
5								
10								
15								

Figure

Project: Merlino
 Project Location: 689 81st Ave., Oakland, CA
 Project Number: 10622

Log of Boring DP-13
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-GC		Gravel mixed with native clay, light yellowish brown 10YR6/4, wet-very moist (raining)		
				CL		Silty Clay, dark olive gray 5y 3/2 - black, firm, moist, plastic, "BayMud"		
		X	DP13-4			Bottom of Boring at 4 feet bgs (ATD) $\frac{4}{4}$		
5								
10								
15								

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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-14
 Sheet 1 of 1

Date(s) Drilled	March 4, 2005	Logged By	Robert F. Flory	Checked By	Adrian Angel
Drilling Method	Geoprobe	Drill Bit Size/Type	2.1 inch	Total Depth of Borehole	4 feet bgs
Drill Rig Type	Geoprobe 5410	Drilling Contractor	Vironex, Inc	Approximate Surface Elevation	
Groundwater Level and Date Measured	4.1 feet ATD	Sampling Method(s)	Tube	Well Permit.	
Borehole Backfill	Cement Slurry	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GP-CC		Gravel mixed with native clay, light yellowish brown 10YR6/4, wet-very moist (raining)		
				CL		Silty Clay, dark olive gray 5G 4/1 - black, firm, moist, plastic, "BayMud"		
			DP13-4			Bottom of Boring at 4 feet bgs (ATD) $\frac{4}{1}$		
5								
10								
15								

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Project: Merlino
Project Location: 689 81st Ave., Oakland, CA
Project Number: 10622

Log of Boring DP-15
Sheet 1 of 1

Date(s) Drilled March 4, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2.1 inch	Total Depth of Borehole 3 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor Vironex, Inc	Approximate Surface Elevation
Groundwater Level and Date Measured 1.5 feet ATD	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Cement Slurry	Location	

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Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0				GG-C		Gravel mixed with native clay, light yellowish brown - brown 10YR 6/4 - 4/3, wet-very moist (raining), recent FILL		
				CL		Silty Clay, black, firm, moist, plastic, "BayMud" (ATD) ∇		
		X	DP12-2.5			No Recovery		Hand driven to 3.0 feet bgs, no recovery of bottom 6"
5								
10								
15								

Figure

APPENDIX C

**Laboratory Analyses
With
Chain of Custody Documentation**



McC Campbell Analytical, Inc.

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. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Reported: 03/10/05
	Client P.O.:	Date Completed: 03/10/05

WorkOrder: 0503098

March 10, 2005

Dear Robert:

Enclosed are:

- 1). the results of 16 analyzed samples from your #10622; Merlino 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. McC Campbell 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



McC Campbell Analytical, Inc.

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

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/04/05-03/09/05
	Client P.O.:	Date Analyzed: 03/04/05-03/09/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0503098

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	DP1-4	S	ND	1	88
004A	DP2-3.5	S	ND	1	95
007A	DP4-3.5	S	ND	1	91
009A	DP6-3.5	S	ND	1	93
010A	DP7-3.5	S	ND	1	89
013A	DP8-3.5	S	ND	1	93
014A	DP9 3.5	S	ND	1	90
015A	DP10-2.0	S	ND	1	102
016A	DP11-3.5	S	ND	1	80
017A	DP13-3.5	S	ND	1	82
018A	DP14 3.5	S	ND	1	93
019A	DP15-2.0	S	ND	1	90
021A	DP1-W	W	ND,i	1	112
022A	DP2-W	W	ND,i	1	116
023A	DP7-W	W	57,b,i	1	112
024A	DP8-W	W	ND,i	1	114

Reporting Limit for DF =1;
 ND means not detected at or
 above the reporting limit

W

50

µg/L

S

1.0

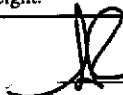
mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/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 McC Campbell 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) results are reported by dry weight.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/04/05
	Client P.O.:	Date Analyzed: 03/07/05-03/09/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C/SW3550C

Analytical methods: SW8015C

Work Order: 0503098

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0503098-001A	DP1-4	S	ND	ND	1	115
0503098-004A	DP2-3.5	S	ND	ND	1	113
0503098-007A	DP4-3.5	S	17,g,b	48	1	114
0503098-009A	DP6-3.5	S	ND	ND	1	117
0503098-010A	DP7-3.5	S	ND	ND	1	117
0503098-013A	DP8-3.5	S	ND	ND	1	109
0503098-014A	DP9 3.5	S	ND	ND	1	110
0503098-015A	DP10-2.0	S	ND	ND	1	94
0503098-016A	DP11-3.5	S	ND	ND	1	93
0503098-017A	DP13-3.5	S	ND	ND	1	90
0503098-018A	DP14 3.5	S	ND	ND	1	90
0503098-019A	DP15-2.0	S	ND	ND	1	100
0503098-021A	DP1-W	W	210,g,b,i	1200	1	112
0503098-022A	DP2-W	W	160,g,b,i	690	1	107
0503098-023A	DP7-W	W	180,d,b,i	ND	1	106
0503098-024A	DP8-W	W	190,g,i	1400	2	99

Reporting Limit for DF =1;
 ND means not detected at or
 above the reporting limit

W	50	250	µg/L
S	1.0	5.0	mg/Kg

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



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

Client Project ID: #10622; Merlino
Client Contact: Robert Flory
Client P.O.:

Date Sampled: 03/04/05
Date Received: 03/04/05
Date Extracted: 03/04/05
Date Analyzed: 03/07/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID		0503098-001A					
Client ID		DP1-4					
Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	104
%SS3:	112		

Comments:

* water and vapor samples are reported 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.

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/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.



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

Client Project ID: #10622; Merlino
Client Contact: Robert Flory
Client P.O.:

Date Sampled: 03/04/05
Date Received: 03/04/05
Date Extracted: 03/04/05
Date Analyzed: 03/07/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID	0503098-007A
Client ID	DP4-3.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	99	%SS2:	104
%SS3:	109		

Comments:

* water and vapor samples are reported 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.

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/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.



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/04/05
	Client P.O.:	Date Analyzed: 03/07/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID	0503098-010A
Client ID	DP7-3.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	101	%SS2:	102
%SS3:	109		

Comments:

* water and vapor samples are reported 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.

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/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.



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/04/05
	Client P.O.:	Date Analyzed: 03/07/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID		0503098-017A					
Client ID		DP13-3.5					
Matrix		Soil					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	102	%SS2:	102
%SS3:	110		

Comments:

* water and vapor samples are reported 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.

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/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.



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/08/05
	Client P.O.:	Date Analyzed: 03/08/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID	0503098-021B
Client ID	DP1-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	2.0	5.0	Acrolein (Propenal)	ND<10	2.0	5.0
Acrylonitrile	ND<4.0	2.0	2.0	tert-Amyl methyl ether (TAME)	ND<1.0	2.0	0.5
Benzene	ND<1.0	2.0	0.5	Bromobenzene	ND<1.0	2.0	0.5
Bromochloromethane	ND<1.0	2.0	0.5	Bromodichloromethane	ND<1.0	2.0	0.5
Bromoform	ND<1.0	2.0	0.5	Bromomethane	ND<1.0	2.0	0.5
2-Butanone (MEK)	ND<4.0	2.0	2.0	t-Butyl alcohol (TBA)	ND<10	2.0	5.0
n-Butyl benzene	ND<1.0	2.0	0.5	sec-Butyl benzene	ND<1.0	2.0	0.5
tert-Butyl benzene	ND<1.0	2.0	0.5	Carbon Disulfide	ND<1.0	2.0	0.5
Carbon Tetrachloride	ND<1.0	2.0	0.5	Chlorobenzene	ND<1.0	2.0	0.5
Chloroethane	ND<1.0	2.0	0.5	2-Chloroethyl Vinyl Ether	ND<2.0	2.0	1.0
Chloroform	ND<1.0	2.0	0.5	Chloromethane	ND<1.0	2.0	0.5
2-Chlorotoluene	ND<1.0	2.0	0.5	4-Chlorotoluene	ND<1.0	2.0	0.5
Dibromochloromethane	ND<1.0	2.0	0.5	1,2-Dibromo-3-chloropropane	ND<1.0	2.0	0.5
1,2-Dibromoethane (EDB)	ND<1.0	2.0	0.5	Dibromomethane	ND<1.0	2.0	0.5
1,2-Dichlorobenzene	ND<1.0	2.0	0.5	1,3-Dichlorobenzene	ND<1.0	2.0	0.5
1,4-Dichlorobenzene	ND<1.0	2.0	0.5	Dichlorodifluoromethane	ND<1.0	2.0	0.5
1,1-Dichloroethane	ND<1.0	2.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND<1.0	2.0	0.5
1,1-Dichloroethene	ND<1.0	2.0	0.5	cis-1,2-Dichloroethene	5.2	2.0	0.5
trans-1,2-Dichloroethene	ND<1.0	2.0	0.5	1,2-Dichloropropane	ND<1.0	2.0	0.5
1,3-Dichloropropane	ND<1.0	2.0	0.5	2,2-Dichloropropane	ND<1.0	2.0	0.5
1,1-Dichloropropene	ND<1.0	2.0	0.5	cis-1,3-Dichloropropene	ND<1.0	2.0	0.5
trans-1,3-Dichloropropene	ND<1.0	2.0	0.5	Diisopropyl ether (DIPE)	ND<1.0	2.0	0.5
Ethylbenzene	ND<1.0	2.0	0.5	Ethyl tert-butyl ether (ETBE)	ND<1.0	2.0	0.5
Freon 113	ND<20	2.0	10	Hexachlorobutadiene	ND<1.0	2.0	0.5
Hexachloroethane	ND<1.0	2.0	0.5	2-Hexanone	ND<1.0	2.0	0.5
Isopropylbenzene	ND<1.0	2.0	0.5	4-Isopropyl toluene	ND<1.0	2.0	0.5
Methyl-t-butyl ether (MTBE)	ND<1.0	2.0	0.5	Methylene chloride	ND<1.0	2.0	0.5
4-Methyl-2-pentanone (MIBK)	ND<1.0	2.0	0.5	Naphthalene	ND<1.0	2.0	0.5
Nitrobenzene	ND<20	2.0	10	n-Propyl benzene	ND<1.0	2.0	0.5
Styrene	ND<1.0	2.0	0.5	1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	2.0	0.5	Tetrachloroethene	44	2.0	0.5
Toluene	ND<1.0	2.0	0.5	1,2,3-Trichlorobenzene	ND<1.0	2.0	0.5
1,2,4-Trichlorobenzene	ND<1.0	2.0	0.5	1,1,1-Trichloroethane	ND<1.0	2.0	0.5
1,1,2-Trichloroethane	ND<1.0	2.0	0.5	Trichloroethene	3.4	2.0	0.5
Trichlorofluoromethane	ND<1.0	2.0	0.5	1,2,3-Trichloropropane	ND<1.0	2.0	0.5
1,2,4-Trimethylbenzene	ND<1.0	2.0	0.5	1,3,5-Trimethylbenzene	ND<1.0	2.0	0.5
Vinyl Chloride	ND<1.0	2.0	0.5	Xylenes	ND<1.0	2.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	99
%SS3:	104		

Comments: i

* water and vapor samples are reported 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.

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/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.



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/08/05
	Client P.O.:	Date Analyzed: 03/08/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID		0503098-022B					
Client ID		DP2-W					
Matrix		Water					
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.76	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	1.0	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	13	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	1.7	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	104	%SS2:	99
%SS3:	108		

Comments: i

* water and vapor samples are reported 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.

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/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.

 Angela Rydelius, Lab Manager



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/08/05
	Client P.O.:	Date Analyzed: 03/08/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID	0503098-023B
Client ID	DP7-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	65	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.52	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	1.4	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	0.68	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	27	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	1.7	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	11	1.0	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	99
%SS3:	105		

Comments: i

* water and vapor samples are reported 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.

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/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.



All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/08/05
	Client P.O.:	Date Analyzed: 03/08/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0503098

Lab ID	0503098-024B
Client ID	DP8-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	36	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	98
%SS3:	102		

Comments: i

* water and vapor samples are reported 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.

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/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.



McC Campbell Analytical, Inc.

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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #10622; Merlino	Date Sampled: 03/04/05
		Date Received: 03/04/05
	Client Contact: Robert Flory	Date Extracted: 03/04/05
	Client P.O.:	Date Analyzed: 03/07/05

LUFT 5 Metals*

Extraction method: SW3050B

Analytical methods: 6010C

Work Order: 0503098

Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
001A	DP1-4	S	TTLc	ND	79	12	47	62	1	91
007A	DP4-3.5	S	TTLc	ND	75	46	65	2200	1	98
010A	DP7-3.5	S	TTLc	ND	65	12	51	62	1	94
014A	DP9 3.5	S	TTLc	ND	69	9.3	49	58	1	99
017A	DP13-3.5	S	TTLc	ND	86	7.8	52	58	1	100
019A	DP15-2.0	S	TTLc	ND	61	12	53	55	1	101

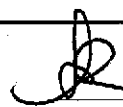
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLc	NA	NA	NA	NA	NA	NA	NA
	S	TTLc	1.5	1.5	5.0	1.5	5.0	mg/Kg	

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLc metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0503098

EPA Method: SW8015Cm		Extraction: SW5030B			BatchID: 15239			Spiked Sample ID: 0503077-005A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) ^E	ND	0.60	88.4	88.5	0.0734	88.7	85.7	3.45	70 - 130	70 - 130
MTBE	ND	0.10	76	73.7	3.03	71.9	76.9	6.73	70 - 130	70 - 130
Benzene	ND	0.10	88.5	88.8	0.325	87.1	92.2	5.74	70 - 130	70 - 130
Toluene	ND	0.10	91.2	91.5	0.372	89.8	94.1	4.65	70 - 130	70 - 130
Ethylbenzene	ND	0.10	96.2	96.4	0.212	94.2	96.2	2.06	70 - 130	70 - 130
Xylenes	ND	0.30	99	99.3	0.336	95	95.3	0.350	70 - 130	70 - 130
%SS:	99	0.10	114	108	5.41	112	117	4.37	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-001A	15239	3/04/05 8:50 AM	3/04/05 9:29 PM	0503098-004A	15239	3/04/05 9:43 AM	3/04/05 10:03 PM
0503098-007A	15239	3/04/05 10:30 AM	3/04/05 10:36 PM	0503098-009A	15239	3/04/05 10:55 AM	3/04/05 11:09 PM
0503098-010A	15239	3/04/05 11:01 AM	3/05/05 1:54 AM	0503098-013A	15239	3/04/05 11:56 AM	3/05/05 3:00 AM
0503098-014A	15239	3/04/05 12:20 PM	3/05/05 3:33 AM	0503098-015A	15239	3/04/05 12:40 PM	3/08/05 4:44 PM
0503098-016A	15239	3/04/05 1:14 PM	3/07/05 12:15 PM	0503098-017A	15239	3/04/05 1:52 PM	3/07/05 12:50 PM
0503098-018A	15239	3/04/05 2:00 PM	3/07/05 2:00 PM	0503098-019A	15239	3/04/05 2:20 PM	3/08/05 8:04 PM

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.
 E 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.



QC SUMMARY REPORT FOR SW8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0503098

EPA Method: SW8015Cm		Extraction: SW5030B			BatchID: 15243			Spiked Sample ID: 0503085-004A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	105	101	4.09	102	98.9	3.04	70 - 130	70 - 130
MTBE	ND	10	105	100	4.71	105	106	0.946	70 - 130	70 - 130
Benzene	ND	10	118	112	4.78	108	109	0.704	70 - 130	70 - 130
Toluene	ND	10	117	109	7.27	109	107	1.47	70 - 130	70 - 130
Ethylbenzene	ND	10	118	114	3.79	109	108	1.09	70 - 130	70 - 130
Xylenes	ND	30	107	107	0	96	96.3	0.347	70 - 130	70 - 130
%SS:	117	10	118	112	4.96	108	110	1.71	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-021A	15243	3/04/05 9:20 AM	3/09/05 4:11 AM	0503098-022A	15243	3/04/05 10:20 AM	3/09/05 2:13 AM
0503098-023A	15243	3/04/05 11:15 PM	3/07/05 4:50 PM				

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.

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QC SUMMARY REPORT FOR SW8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0503098

EPA Method: SW8015Cm		Extraction: SW5030B			BatchID: 15249			Spiked Sample ID: 0503107-001A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) [£]	ND	60	100	103	3.30	99.3	97.3	2.09	70 - 130	70 - 130
MTBE	ND	10	107	102	4.03	101	103	2.44	70 - 130	70 - 130
Benzene	ND	10	113	116	2.97	116	117	1.14	70 - 130	70 - 130
Toluene	ND	10	113	113	0	113	113	0	70 - 130	70 - 130
Ethylbenzene	ND	10	116	119	2.54	116	116	0	70 - 130	70 - 130
Xylenes	ND	30	107	107	0	103	103	0	70 - 130	70 - 130
%SS:	92	10	113	111	2.16	115	114	0.180	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-024A	15249	3/04/05 2:00 PM	3/09/05 10:51 PM				

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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0503098

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 15238		Spiked Sample ID: 0503074-001A			
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	ND	20	102	102	0	98.6	99.5	0.991	70 - 130	70 - 130
%SS:	111	50	112	113	0.204	113	114	1.10	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-001A	15238	3/04/05 8:50 AM	3/07/05 4:36 PM	0503098-004A	15238	3/04/05 9:43 AM	3/07/05 5:47 PM
0503098-007A	15238	3/04/05 10:30 AM	3/07/05 6:58 PM	0503098-009A	15238	3/04/05 10:55 AM	3/07/05 8:08 PM
0503098-010A	15238	3/04/05 11:01 AM	3/07/05 9:18 PM	0503098-013A	15238	3/04/05 11:56 AM	3/09/05 5:04 AM
0503098-014A	15238	3/04/05 12:20 PM	3/09/05 6:09 AM	0503098-015A	15238	3/04/05 12:40 PM	3/07/05 5:34 PM
0503098-016A	15238	3/04/05 1:14 PM	3/07/05 6:41 PM	0503098-017A	15238	3/04/05 1:52 PM	3/07/05 7:47 PM
0503098-018A	15238	3/04/05 2:00 PM	3/07/05 8:53 PM	0503098-019A	15238	3/04/05 2:20 PM	3/07/05 9:59 PM

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.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0503098

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 15237			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	116	118	1.21	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	112	114	1.19	N/A	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

BATCH 15237 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503098-021 A	3/04/05 9:20 AM	3/04/05 6:28 PM	3/08/05 7:09 PM	0503098-022 A	3/04/05 10:20 AM	3/04/05 6:28 PM	3/08/05 1:51 AM
0503098-023 A	3/04/05 11:15 PM	3/04/05 6:28 PM	3/08/05 3:00 AM				

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.

DHS Certification No. 1644

JL QA/QC Officer



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0503098


EPA Method: SW8015C		Extraction: SW3510C			BatchID: 15248			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	110	117	5.70	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	104	106	1.77	N/A	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-024A	15248	3/04/05 2:00 PM	3/09/05 12:42 AM				

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.

DHS Certification No. 1644

 QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0503098

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 15247		Spiked Sample ID: 0503098-017A			
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	0.050	88.9	86.7	2.49	86.5	87	0.607	70 - 130	70 - 130
Benzene	ND	0.050	113	111	1.27	103	104	1.20	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	0.25	89	93.7	5.15	95	96.4	1.46	70 - 130	70 - 130
Chlorobenzene	ND	0.050	104	106	1.60	113	113	0	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	93.3	93.3	0	111	112	0.869	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	92.7	92.9	0.237	99.3	102	2.93	70 - 130	70 - 130
1,1-Dichloroethene	ND	0.050	113	108	3.85	99.6	103	3.18	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	113	109	3.58	93.1	95.7	2.84	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	94.5	89.6	5.30	97	98.5	1.56	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	87.5	84.2	3.83	100	100	0	70 - 130	70 - 130
Toluene	ND	0.050	105	105	0	105	106	0.671	70 - 130	70 - 130
Trichloroethene	ND	0.050	91.8	90.9	0.972	104	105	1.05	70 - 130	70 - 130
%SS1:	102	0.050	99	98	0.957	101	101	0	70 - 130	70 - 130
%SS2:	102	0.050	99	99	0	94	95	0.0873	70 - 130	70 - 130
%SS3:	110	0.050	109	106	2.92	89	89	0	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-001A	15247	3/04/05 8:50 AM	3/07/05 1:45 PM	0503098-007A	15247	3/04/05 10:30 AM	3/07/05 2:28 PM
0503098-010A	15247	3/04/05 11:01 AM	3/07/05 3:11 PM	0503098-017A	15247	3/04/05 1:52 PM	3/07/05 3:54 PM

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0503098

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 15244			Spiked Sample ID: 0503085-011B		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	90.9	87.1	4.28	86.2	89.8	4.05	70 - 130	70 - 130
Benzene	0.53	10	99.1	99.8	0.751	99.5	101	1.20	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	99.3	97.5	1.82	98.9	98.5	0.468	70 - 130	70 - 130
Chlorobenzene	ND	10	115	115	0	109	109	0	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	112	111	0.618	115	119	2.83	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	102	102	0	98.1	101	3.13	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	98.9	101	1.92	97.3	97.1	0.275	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	96.6	97.6	1.11	90.5	93.4	3.13	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	97.3	98.3	1.08	91.4	95.3	4.18	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	98.6	101	2.41	93.1	97.5	4.62	70 - 130	70 - 130
Toluene	1.4	10	93.4	94.2	0.718	103	102	0.0885	70 - 130	70 - 130
Trichloroethene	2.3	10	106	106	0	99.9	101	1.19	70 - 130	70 - 130
%SS1:	98	10	101	102	0.366	103	102	0.172	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

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-021B	15244	3/04/05 9:20 AM	3/08/05 3:40 PM	0503098-022B	15244	3/04/05 10:20 AM	3/08/05 1:09 AM
0503098-023B	15244	3/04/05 11:15 PM	3/08/05 1:52 AM	0503098-024B	15244	3/04/05 2:00 PM	3/08/05 5:06 PM

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



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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0503098

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Cadmium	0.23	50	103	100	2.49	85.6	100	16.0	70 - 130	80 - 120
Chromium	130	50	NR	NR	NR	90.4	103	12.9	70 - 130	80 - 120
Lead	11	50	109	106	2.57	103	98	4.98	70 - 130	80 - 120
Nickel	190	50	NR	NR	NR	86.2	93.1	7.64	70 - 130	80 - 120
Zinc	60	50	NR	NR	NR	103	102	0.585	70 - 130	80 - 120
%SS:	104	250	103	106	2.58	102	100	2.48	70 - 130	80 - 120

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

NONE

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503098-001A	15220	3/04/05 8:50 AM	3/07/05 8:45 PM	0503098-007A	15220	3/04/05 10:30 AM	3/07/05 8:48 PM
0503098-010A	15220	3/04/05 11:01 AM	3/07/05 8:52 PM	0503098-014A	15220	3/04/05 12:20 PM	3/07/05 9:08 PM
0503098-017A	15220	3/04/05 1:52 PM	3/07/05 9:12 PM	0503098-019A	15220	3/04/05 2:20 PM	3/07/05 9:15 PM

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).

* Acceptance Criteria for MS / MSD is between 70% and 130%. 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 applicable to this method.

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.

DHS Certification No. 1644

QA/QC Officer

QEL

0503098

McCAMPBELL ANALYTICAL INC.
 110 2nd AVENUE SOUTH, #D7
 PACHECO, CA 94553-5560
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Robert Flory Bill To:
 Company: AEI Consultants AEI Consultants
 2500 Camino Diablo, Suite 200
 E-Mail: rflory@aeiconsultants.com
 Tele: (925) 944-2899 ext. 122 Fax: (925) 944-2895
 Project #: 10622 Project Name: Merlino
 Project Location: 968 81st Ave, Oakland, CA
 Sampler Signature:

Analysis Request										Other	Comments					
TPH-g (8021B + 8015)/BTEXMTBE	TPH M multi-Range (8015)	Total Petroleum Oil & Grease (5520 E&R&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 basic list by 8012B	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/742/239.2/6010) Total lead	RCI	TPH multi-range EPA 8015	
DP1-4	0850	3/4/05							X			X				
DP1-7.5	0900															
DP1-11.5	0908															
DP2-3.5	0943															
DP2-7.5	0947															
DP3 3.5	1037															
DP4 3.5	1030															
DP5 3.5	1015															
DP6 3.5	1055															
DP7-3.5	1101															
DP7 7.5	1103															
DP7 11.5	1115															

Relinquished By: *[Signature]* Date: 3/4/05 Time: 1655 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: Time: Received By:
 Relinquished By: Date: Time: Received By:

ICE/t°
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 PRESERVATION
 APPROPRIATE CONTAINERS
 PERSERVED IN LAB
 VOAS O&G METALS OTHER

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

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Project #: 10622 **Project Name:** Merlino
Project Location: 968 81st Ave, Oakland, CA
Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				TPH-g (8012B + 8015)/BTEX/MTBE	TPH M multi-Range (8015)	Total Petroleum Oil & Grease (SS20 E&E/R&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 basic list by 8012B	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 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) Total lead	RCI	TPH multi-range EPA 8015	Other	Comments							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other																									
DP-8 3.5			1156	1																																			
DP9 3.5			1220	1																																			
DP10-20			1240	1																																			
R4 DP11 3.5			1119	1																																			
DP13 3.5			152	1																																			
DP14 3.5			200	1																																			
DP15-20			220	1																																			
DP12-3.5			143	1																																			

Relinquished By:	Date:	Time:	Received By:
<i>[Signature]</i>	3/1/05	1655	<i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/A°	VOAS	O&G	METALS	OTHER
GOOD CONDITION				
HEAD SPACE ABSENT				
DECHLORINATED IN LAB				
PRESERVATION APPROPRIATE				
CONTAINERS				
PERSERVED IN LAB				

05030 98

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5/DAY

EDF Required? Coelt (Normal) No Write On (DW) No

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Project #: 10622 Project Name: Merlino

Project Location: 968 81st Ave, Oakland, CA

Sampler Signature:

Analysis Request

Other

Comments

TPH-g (8021B + 8015)/BTEX/MTBE																				
TPH M multi-Range (8015)																				
Total Petroleum Oil & Grease (5520 E&F/R&F)																				
Total Petroleum Hydrocarbons (418.1)																				
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CAM-17 Metals																				
LUFT 5 Metals																				
Lead (7240/7421/239.2/6010) Total lead																				
RCI																				
TPH multi-range EPA 8015																				

+50
+40
+10
100
Del

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED									
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other						
DP1-W		7/1/05	9:20																	
DP2-W			10:20																	
DP7-W			11:15																	
DP8-W			2:00																	

Relinquished By: [Signature] Date: 7/1/05 Time: 11:25 Received By: [Signature]

Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature]

Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature]

ICE/PCB _____ VOAS _____ O&G _____ METALS _____ OTHER _____

GOOD CONDITION _____ PRESERVATION _____

HEAD SPACE ABSENT _____ APPROPRIATE _____

DECHLORINATED IN LAB _____ CONTAINERS _____

PRESERVED IN LAB _____

McC Campbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



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

WorkOrder: 0503098

ClientID: AEL

Report to:

Robert Flory
 All Environmental, Inc.
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597

TEL: (925) 283-6000
 FAX: (925) 283-6121
 ProjectNo: #10622; Merlino
 PO:

Bill to:

Diane
 All Environmental, Inc.
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597

Requested TAT:

5 days

Date Received: 03/04/2005

Date Printed: 03/04/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0503098-001	DP1-4	Soil	3/4/05 8:50:00 AM	<input type="checkbox"/>	A		A		A											
0503098-004	DP2-3.5	Soil	3/4/05 9:43:00 AM	<input type="checkbox"/>			A													
0503098-007	DP4-3.5	Soil	3/4/05 10:30:00 AM	<input type="checkbox"/>	A		A		A											
0503098-009	DP6-3.5	Soil	3/4/05 10:55:00 AM	<input type="checkbox"/>			A													
0503098-010	DP7-3.5	Soil	3/4/05 11:01:00 AM	<input type="checkbox"/>	A		A		A											
0503098-013	DP8-3.5	Soil	3/4/05 11:56:00 AM	<input type="checkbox"/>			A													
0503098-014	DP9 3.5	Soil	3/4/05 12:20:00 PM	<input type="checkbox"/>			A		A											
0503098-015	DP10-2.0	Soil	3/4/05 12:40:00 PM	<input type="checkbox"/>			A													
0503098-016	DP11-3.5	Soil	3/4/05 1:14:00 PM	<input type="checkbox"/>			A													
0503098-017	DP13-3.5	Soil	3/4/05 1:52:00 PM	<input type="checkbox"/>	A		A		A											
0503098-018	DP14 3.5	Soil	3/4/05 2:00:00 PM	<input type="checkbox"/>			A													
0503098-019	DP15-2.0	Soil	3/4/05 2:20:00 PM	<input type="checkbox"/>			A		A											
0503098-021	DP1-W	Water	3/4/05 9:20:00 AM	<input type="checkbox"/>			B		A											
0503098-022	DP2-W	Water	3/4/05 10:20:00 AM	<input type="checkbox"/>			B		A											
0503098-023	DP7-W	Water	3/4/05 11:15:00 PM	<input type="checkbox"/>			B		A											

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTX_S	4	G-MBTX_W	5	LUFT_S
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.

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5 days

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Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0503098-024	DP8-W	Water	3/4/05 2:00:00 PM	<input type="checkbox"/>		B	A													

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W	5	LUFT_S
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

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