## Alameda County

SEP 1 0 2005

**Environmental Health** 

September 5, 2002

# GROUNDWATER MONITORING WELL INSTALLATION & INITIAL MONITORING REPORT

1240 Powell Street Emeryville, California

Project No. 5272

Prepared For

Wells Fargo Bank 1298 E. 14<sup>th</sup> Street, Suite 320 San Leandro, CA 94577

Prepared By

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

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### 1.0 Introduction

AEI Consultants (AEI) has prepared this report on behalf of Mr. Bill Rauch of Wells Fargo Bank and documents the groundwater investigation performed at the property located at 1240 Powell Street in Emeryville, California (Figure 1: Site Location Map). The investigation was conducted to further characterize the extent and the magnitude of the dissolved hydrocarbon plume in the groundwater beneath the site.

### 2.0 SITE DESCRIPTION AND BACKGROUND

The subject property (hereinafter referred to as the "site" or "property" is located at 1240 Powell Street at the northwest corner of Powell Street and Vallejo Street in the City of Emeryville. The property is approximately 10,000 square feet in size and is currently improved with a two-story office building occupying approximately 60% of the property. The eastern portion of the property is improved with parking and driveway areas as well as landscaping.

AEI was retained in December 2001 to perform a Phase I Environmental Site Assessment (ESA) on the property. The ESA revealed that the property was used as a gasoline service station from the late 1950s through 1974. Records reviewed at the Emeryville Building Department revealed that the service station was originally equipped with two 6,000-gallon fuel underground storage tanks (USTs), one 2,000-gallon UST, and one 550-gallon waste-oil UST. In 1969, one of the 6,000-gallon USTs was reportedly replaced with a 10,000-gallon UST. Permits to demolish the station in 1974 indicated the removal of "all aboveground and below ground facilities." No records of any soil and/or groundwater sample analyses were found. Approximate locations of the former USTs and associated dispensers are shown in Figure 2.

An additional 4,000-gallon UST was associated with the current building, and was used to fuel delivery trucks. The Emeryville Fire Department issued a permit in 1991 for removal of the 4,000-gallon UST. No other documentation was available regarding the removal of this UST. The approximate location of this UST is also shown in Figure 2.

Based on the former presence of numerous fuel USTs and associated dispensing systems, and the lack of other records, it was concluded in the ESA that the property could have been impacted by petroleum hydrocarbons.

On February 7, 2002 AEI advanced a total of eight (8) soil borings (labeled SB-1 through SB-8). Refer to Figure 2 for their locations. Total petroleum hydrocarbons as gasoline (TPH-g) and total petroleum hydrocarbons as diesel (TPH-d) were detected in only one soil sample (SB-1 8' at 47 mg/kg and 5.8 mg/kg, respectively). Hydrocarbons were detected in four of the seven groundwater samples, with TPH-g detected up to 1,400  $\mu$ g/l and TPH-d detected up to 1,400  $\mu$ g/l. Both benzene and methyl tertiary butyl ether (MTBE) were detected up to 5.7  $\mu$ g/l in the groundwater. The analytical results from the February 7, 2002 investigation are included in Tables 2 & 3. Please refer to *Phase II Subsurface Investigation Report*, issued on February 15, 2002 by AEI, for more details.



### 3.0 GEOLOGY AND HYDROGEOLOGY

The site is located approximately 30 feet above mean sea level and about 3,000 feet east of the San Francisco Bay. The site is located on alluvial deposits transported from the Berkeley Hills. The local topography slopes moderately to the west.

The near surface sediments encountered during well installation activities consisted of sandy and gravely clays to approximately 10 to 14 feet below ground surface (bgs), underlain by a layer of stiff clay with less gravel. Under the clays was a clay rich sand beginning at 14 to 16 feet bgs. Groundwater was encountered in the temporary borings between approximately 15 and 20 feet bgs.

Well locations were surveyed relative to each other and msl by David Logan (California Professional Land Surveyor No. 5003) on August 15, 2002.

Water level measurements were made during the first groundwater monitoring and sampling episode conducted on August 13, 2002. Water table elevations ranged between 7.69 and 8.58 feet above mean sea level (msl). The hydraulic gradient was calculated at 0.028 ft/ft with flow towards the southwest.

#### 4.0 PERMITS

Prior to the start of drilling activities, well construction permits were submitted and approved by Mr. James Yoo of the Alameda County Public Works Agency (ACPWA). An encroachment permit was received from the City of Emeryville Department of Public Works for construction of MW-2 in the #1 lane of westbound Powell Street. Copies of the permit documentation are included in Appendix A.

### 5.0 WELL INSTALLATION & CONSTRUCTION

On August 2, 2002, a total of three soil borings were advanced and converted to groundwater monitoring wells. Please refer to Figure 2 for locations of the newly constructed wells. These borings were advanced with a hydraulic rotary drill rig running 8-inch diameter hollow-stem augers. Cuttings generated during the well installation activities were stored on-site in sealed, labeled 55-gallon drums.

Soil samples were collected at approximately every 5 feet in each boring. Soil samples obtained during drilling activities were screened in the field via sensory perceptions and a portable organic vapor meter. The borings were logged using the unified soil classification system (USCS). Please refer to Appendix B for detailed logs of the borings. Soil samples were sealed within brass liners using Teflon® tape and plastic caps and stored over ice during transportation to the laboratory.



The three soil borings were converted to groundwater monitoring wells (MW-1 through MW-3). All three wells were constructed with 2" diameter casing to a total depth of 20 feet. The wells were constructed of approximately 10 feet of 0.020" factory-slotted well screen and 10 feet of flush threaded blank Schedule 40 PVC casing that was installed through the hollow augers. The well screen in each well was fitted with a flush-threaded bottom cap. No. 2/16 Monterey sand was poured through the auger to form a sand pack from the bottom of the well to 2 feet above the slotted well screen. Approximately 1.5 to 2 feet of bentonite pellets were placed above the sand and hydrated with tap water. The remainder of the boring was filled to 0.5 feet below grade with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. Refer to the boring logs (Appendix B) for an illustration of well construction details.

#### 6.0 WELL DEVELOPMENT AND SAMPLING

The three newly installed wells were developed on August 7, 2002. The wells were developed by first using a surge block to clear the sand pack and screen of any fine sands, and then a minimum of 10 well volumes of water were pumped from each well.

Groundwater samples were collected from the wells on August 13, 2002. No hydrocarbon odor or product sheen was observed during the sampling of the wells. Depth to groundwater was measured prior to sampling activities. Prior to the collection of water samples, at least three well volumes of water were purged from each well. Please refer to Appendix C for Groundwater Well Sampling Field Forms, which include details on the sampling of each well.

The groundwater samples were collected from each well using clean disposable plastic bailers. Water was poured from the bailers into 1 L amber glass bottles and 40 ml VOA vials and capped so that neither headspace nor air bubbles were visible within the sample containers. The samples were labeled and placed on ice and transported under chain of custody protocol for analysis to McCampell Analytical Inc. (DOHS Certification Number 1644) of Pacheco, California.

#### 7.0 Sample Analytical Results

For each of the three borings, the soil sample from 11 feet bgs was analyzed for TPH-d (EPA Method 8015), TPH-g (EPA Method 5030/8015), benzene, toluene, ethylbenzene and xylenes (BTEX), and MTBE by EPA Method 5030/8020.

No detectable concentrations of hydrocarbons were detected in any of the soil samples. Please refer to Table 3 for details of the soil sample analytical results.

Groundwater samples collected during the first sampling episode were analyzed for TPH-d (EPA Method 8015), TPH-g (EPA Method 5030/8015), BTEX and MTBE (EPA Method 5030/8015), and Volatile Organics (EPA 8260). MTBE was also analyzed by EPA Method 8260B.



Elevated concentrations of TPH-d were detected in MW-2 and MW-3 (81 and 130  $\mu g/L$  respectively). No TPH-d was detected in MW-1. No detectable concentrations of TPH-g or BTEX compounds were found in any of the wells. No volatile organic compounds were detected in any of the wells, with the exception of 5.1  $\mu g/L$  of 1,2-DCA in MW-2. The groundwater sample analytical data are summarized in Table 5. Laboratory results and chain of custody documentation are included in Appendix C.

### 8.0 SUMMARY AND RECOMMENDATIONS

This investigation was designed to further assess the extent and stability of the dissolved phase hydrocarbon plume identified during AEI's investigation performed in February 2002. Based on the lack of an identified off-site source, the release appeared to have originated at the subject property.

AEI advanced a total of three soil borings during this investigation, which were converted to groundwater monitoring wells. Only one soil sample from these two events contained detectable levels of hydrocarbon contamination (SB-1). Water sample analyses indicated that the highest levels of contamination exist in the region of the former tanks. The low concentrations of TPH-d in MW-2 and MW-3 and absence of other contaminants indicate that the dissolved phase hydrocarbon plume is centered on at the former tank locations and is limited in extent.

Due to access limitations, samples could not be collected near the former dispenser islands or the former waste-oil tank. The possibility remains that impacted soil and/or groundwater exists beneath the current building in either or both of these locations. MW-2 is located down-gradient of the former locations of the dispensers and waste-oil tank, and currently contains only minor concentrations of TPH-d.

Continued groundwater monitoring and sample collection are recommended to assess the mobility of the contaminants. The next episode of sampling is scheduled for November 2002.

### 9.0 REFERENCES

- 1. Phase I ESA, December 20, 2001, prepared by AEI Consultants.
- 2. Phase II Subsurface Investigation, June 2001, prepared by AEI Consultants.

#### 10.0 REPORT LIMITATIONS AND SIGNATURES

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



and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

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

Sincerely,

**ORIGINAL SIGNED BY** 

Nathan Garfield, Staff Geologist

ORIGINAL SIGNED BY

Joseph P. Derhake Senior Project Engineer, Principal

Table 1 Groundwater Elevation Data

Well ID	Date Collected	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-1	8/13/02	28.17	7.69	20.48
MW-2	8/13/02	26.17	8.58	17.59
MW-3	8/13/02	28.62	8.28	20.34

All well elevations are measured from the top of the casing

ft msl = feet above mean sea level

Table 2
Soil Sample Analytical Data

Sample ID	Date	TPH as gasoline mg/kg	TPH as diesel mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg	TOG mg/kg	VOCs (8260) mg/kg
SB-1 8'	2/7/2002	47	5.8	<0.5	<0.05	< 0.05	<0.05	<0.05	-	_
SB-3 4'	2/7/2002	<1.0	<1.0	<0.05	< 0.005	<0.005	<0.005	<0.005	-	_
SB-4 8'	2/7/2002	<1.0	<1.0	< 0.05	<0.005	<0.005	<0.005	< 0.005		_
SB-5 6'	2/7/2002	<1.0	<1.0	< 0.05	<0.005	<0.005	<0.005	<0.005	_	_
SB-6 8'	2/7/2002	<1.0	<1.0	< 0.05	<0.005	<0.005	<0.005	<0.005	_	_
SB-7 8'	2/7/2002	<1.0	<1.0	< 0.05	<0.005	<0.005	<0.005	<0.005	_	<u> </u>
SB-7 12'	2/7/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	_	_
SB-7 15'	2/7/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	<50	ND
SB-8 10 <sup>1</sup>	2/7/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
MW-1-11'	8/2/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005		
MW-2-11'	8/2/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
MW-3-11'	8/2/2002	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
MDL		1.0	1.0	0.05	0.005	0.005	0.005	0.005	50	<0.005*

MDL = Method Detection Limit

Table 2 Supplement: LUFT Five Metals

Sample ID	Cadmium	Chromium	Lead	Nickel	Zinc
SB-7 12'	<0.5	26	6	40	41

All results in Table 2 Supplement in mg/kg

<sup>- =</sup> Sample not analyzed by this method

vg/kg = micrograms per kilogram (ppb)

mg/kg = milligrams per kilogram (ppm)

ND = Not detected above method detection limit

<sup>\* =</sup> reporting limit varies by chemical, see Appendix B

Table 3
Groundwater Sample Analytical Results

Sample ID	DATE	TPH as gasoline µg/L	TPH as diesel µg/L	MTBE μg/L	Benzene µg/L	Toluene μg/L	Ethyl- benzene µg/L	Xylenes μg/L	(EPA 8260) 1,2-DCA μg/L
SB-1 W	2/7/2002	320	230	<5.0	<0.5	<0.5	5.2		
SB-2 W	2/7/2002	1,400	1,400	<5.0	5.7	3.0	3.3	3.3 4.0	-
SB-3 W	2/7/2002	<50	<50	5.7	<0.5	<0.5	عد <0.5	4.0 <0.5	-
SB-4 W	2/7/2002	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
SB-5 W	2/7/2002	71	200	<5.0	<0.5	1.5	<0.5	<0.5	_
SB-6 W	2/7/2002	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
SB-8 W	2/7/2002	<50	580	<5.0	<0.5	<0.5	<0.5	<0.5	-
MW-1	8/13/2002	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	8/13/2002	<50	81	<5.0	<0.5	<0.5	<0.5	<0.5	5.1
MW-3	8/13/2002	<50	130	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
MDL		50	50	5.0	0.5	0.5	0.5	0.5	0.5

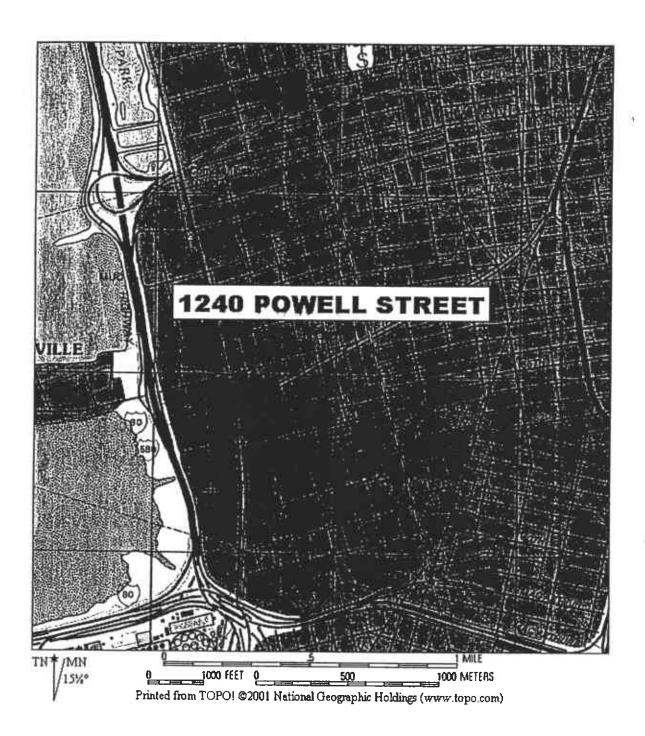
MDL = Method Detection Limit

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

μg/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

- = Sample not analyzed by this method

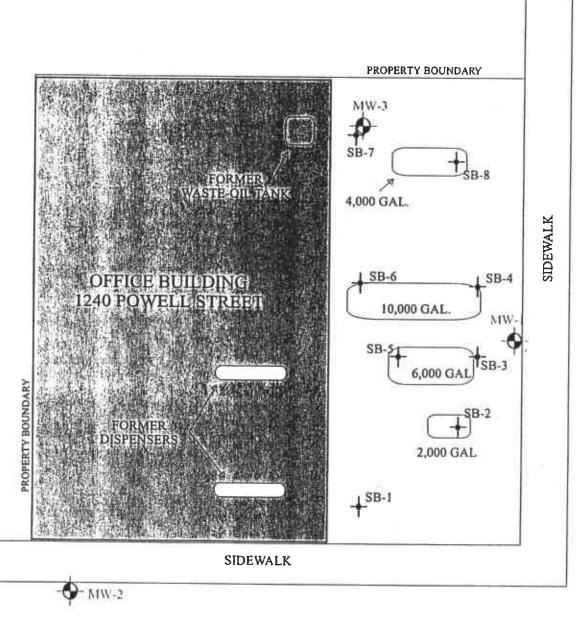


AEI CONSULTANTS
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

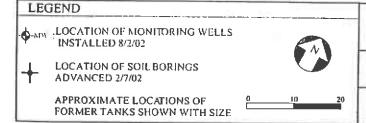
## SITE LOCATION MAP

1240 POWELL STREET EMERYVILLE, CALIFORNIA

FIGURE 1 PROJECT No. 5272



**POWELL STREET** 



AEI CONSULTANTS 3210 Old Tunnel Road, Ste B, Lafayette, CA

### SITE PLAN

1240 POWELL STREET EMERYVILLE, CALIFORNIA

FIGURE 2 PROJECT NO 5272

GROUNDWATER FLOW DIRECTION 8/13/02 WITH GRADIENT 0.0278

**LEGEND** 

LOCATION OF MONITORING WELLS INSTALLED 8/2/02



APPROXIMATE LOCATIONS OF FORMER TANKS SHOWN WITH SIZE



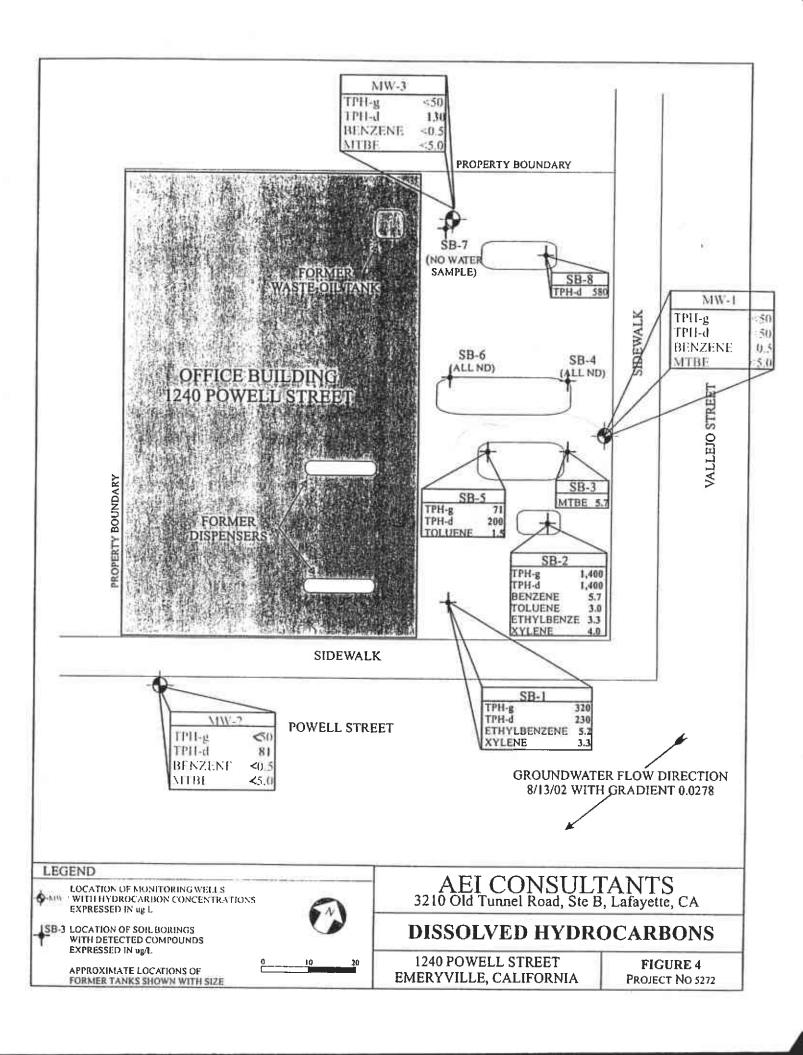
AEI CONSULTANTS 3210 Old Tunnel Road, Ste B, Lafayette, CA

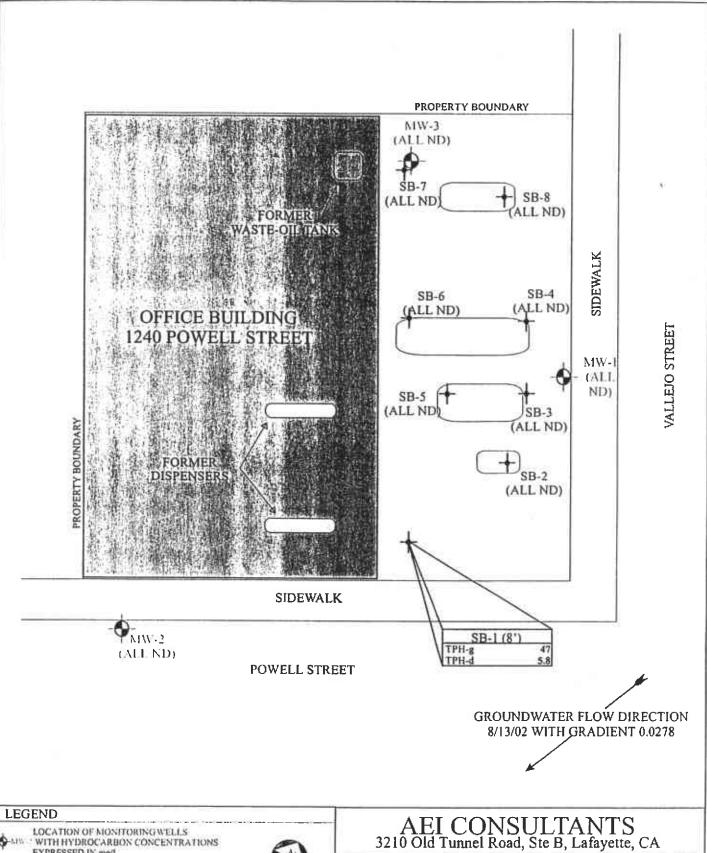
## **GROUNDWATER ELEVATION**

1240 POWELL STREET EMERYVILLE, CALIFORNIA

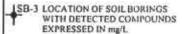
FIGURE 3
PROJECT NO 5272

VALLEJO STREET





EXPRESSED IN mg/L



APPROXIMATE LOCATIONS OF FORMER TANKS SHOWN WITH SIZE





# SOIL ANALYTICAL RESULTS

1240 POWELL STREET EMERYVILLE, CALIFORNIA

FIGURE 5 PROJECT NO 5272 Project No: 5272

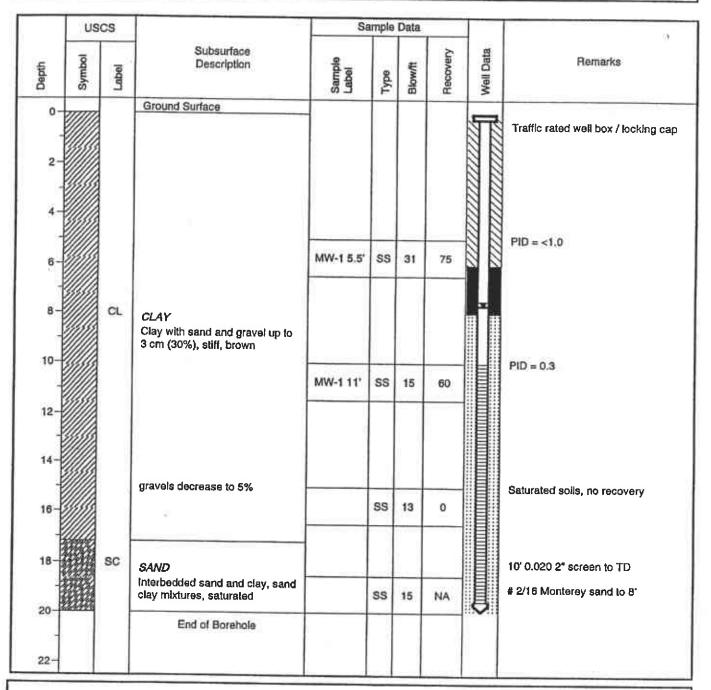
Sheet: 1 of 1

Project Name: POWELL ST., EMERYVILLE

Log of Borehole: MW-1

Client; WELLS FARGO

Location:



Drlii Date 8/2/02

Reviewed by: JPD

Drill Method: HSA

Logged by: NG / PJM

Total Depth: 20

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Depth to Water: 15' (during drilling)

Sheet: 1 of 1

Project No: 5272

Project Name: Powell Street, Emeryville

Log of Borehole: MW-2

Client: WFB

Location:

	USC	cs		Sar	nple (	Data		í i	1
Depth	Symbol	Label	Subsurface Description	Sample	Type	Blow/ft	Recovery	Well Data	Remarks
2-		S	Ground Surface  CLAY  Clay with sand and gravel up to 3 cm (30%), stiff, brown						Traffic rated well box / locking cap
6-		CL		MW-2 6'	SS	22	90		PID = <1.0  Grey, stained soil.  Moderate HC odor
10-			gravels decrease to 5%	MW-2 11'	SS	17	70	*	Moderate HC odor  PID = <1.0
14-									
18-		sc	SAND Interbedded sand and clay, sand clay mixtures, saturated		SS	19	100		Saturated solls, no recovery
18-					SS	15	NA		10' 0,020 2" screen to TD # 2/16 Monterey sand to 8'
20-	-		End of Borehole						
22-	-								

Drill Date 8/2/02

Drill Method: HSA

Total Depth: 20

Depth to Water: 15 during drilling

Reviewed by: JD

Logged by: NG / PJM

AEI Consultants 3210 Old Tunnel Road, Sulte B Lafayette, CA 94549 (925) 283-6000 Project No: 5272

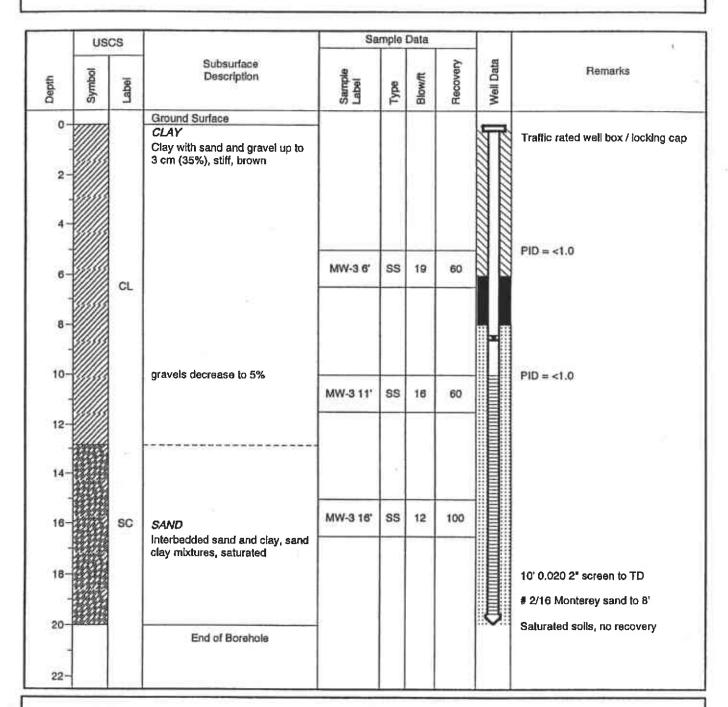
Sheet: 1 of 1

Project Name: Powell Street, Emeryville

Log of Borehole: MW-3

Client: WFB

Location:



Drill Date 8/2/02

Drill Method: HSA

Total Depth: 20

Depth to Water: 20 durring drilling

Reviewed by: JD

Logged by: NG / PJM

AEI Consultants 3210 Old Tunnel Road, Suite B Lalayette, CA 94549 (925) 283-6000

AEI CONSULTANTS (SF) 

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# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (S14) 5795 MARLON MAGALLANES/FRANK COOD (516) 570-5783

PAX (516) 783-1939 (\$10) 690-6633 \$2.1864 \$401 (570) 670-6633 JAINES YOU

# DRILLING PERMIT APPLICATION

FOR A ROY OF SHIP TO A SALE	
for applicant to complete	for office use
LOCATION OF PROJECT	PERMIT NUMBER WM)-0695
-1240 Powell Street	WELL NUMBER
Emeryville, CA	ИЗА
A1 4941	PERMIT CONDITIONS
CLENT Nume Wells Fargo Bank	Circled Parada Requirements Apply
Hime Wells Fargo Bank Address 3645 Cardiff Ave Phoge 310 559 7050	A, GENERAL
City Los Angeles, CA Zip 90034	1. A permit application should be submitted so sa to
APPLICANT	
Name AET Consultants (Poter McIntyre)	2. Submit to ACPWA within 60 days after completion of
Fax Q25/303 446	
An House Parket	West Commission Report
PI DACAO	1. Permit it vold if project not began within 90 days of approval date
-5414e B	B. WATER BUPPLY WELLS
TYPE OF PROJECT Well Construction Distriction	I. Minimum surface and thickness to two tests or a
Cathodia Protriorian	ENGLIS Propert blancad has been be
Water Kopply C Continuity	2. Minimum and depth is 30 test for municipal and industrial walls ar 20 feet for demand and irrigation
Monitoring Law S Surrouted I	Wells unless a leader death is executive account
	I WINDOWN TALER MONTTOWNS WELL .
PROPOSED WATER SUPPLY WELL USE New Demostle C Replanation (19-10)	INCLUDING PIEZDMETERS
Manisinal in Administration of	1. Minimum surface seal thickness is two inches of coment group placed by trarrie.
Industrial in Configuration	2. Minimum seal depth for manifering wells is the
	maximum danch beautie-blu nd w
DRILLING METHOR: Mud Halgry 17 Alt Source D. Annual Control D. Alt Source D. Annual Control D. Annual	D. GEOTECHNICAL
Cable 100	Backfill bere hole by tremie with nemest grow or coment
The state of the s	prouds and mixture. Upper two-three feet replaced in kind or with sampened equings.
DRILLER'S NAME Spectrum Exploration	E. CATHODIC
	Fill hald sands zone with concrate placed by donly.
pricter's License No. C57 512 268	
101.3	Send a map of work sint A separate pormit is required for wells desper than 45 feet.
Drill Hole Diametes 1/4 In. Maximum	SPECIAL CONDITIONS—SCHIL Affected.
Casing Diameter 7/4 in. Massimum	NOTEL ON A ANTICONE
Casing Diameter 2 in. Dupth 20 n. Owner's Well Number MW	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application see suspended for recombining and consequently.
GEOTECHNICAL PROJECTS	tor sectionalists and contamination investigations, exceptible
	The second secon
flow Drainers in Dayth B.	2
The state of the s	
SOLUTION DATE 7/29/02  TO THE TARTING DATE 7/29/02	1 10
7/29/02	APPROVED OATE )-27-02
hereby agree to comply with all mangentents of the populary Admide County Or	ONTE /
PPLICANT'S SIGNATURE LECTURE OF	# Manae No. 71-66.
A F CONTRACTOR	119/092
LEASE PRINT HAME PALON MCINTYNE	
Rev	5-11-00

07/20/2002 11:06

9252836121

11:06 9252836121 AEI CONSULTANTS (SF)

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# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

JOY ELMHURST ST. HAYWARD CA. 14544-1192

PRONE (STA) 174-5554-MAREOR MAGALLANES/FRANK CODD (STA) 570-5713 (610) 640-6613-JAMBYOU

DRILLING FERMIT	TAPPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT	FOR OFFICE USE
1240 Dowell Stroot	PERMIT NUMBER WID-0696
Emeryville, Ca	well nomber aph
CLIENT Name Wells Fargo Bank Address 3645 Cardief Ave Phone 310 559 7050 City Los Angeles, CA 79 90034	PERMIT CONDITIONS  Circled Permit Acquirements Apply  A. GENERAL  L. A permit application should be submitted so as to arrive at the ACP WA office five days prior to
Name AEI Consultants (Peter McIntyre) Fix 925/283_5121 Addres 3210 Old Tunnel Rephone 925/283_5000 City Lafayette, Ch Zip 94549	Well Completion Report.  3. Permit by void if project not began within 40 days of approved days.  B. WATER SUPPLY WELL 4
TYPE OF PROJECT  Well Consumerion  Cathodic Prosection  Water Supply  General  Contamination  Monitoring  Well Destruction  O	i. Minimum serface seal thickness is two inches of ensured ground by memia.  2. Minimum seal daysh if 30 feet for municipal and industrial weits or 20 feet for domestic and irrigation wells unless a lesser dayth is specially approved.  C. GROUNDWATER MONITORING MET 2.6
PROPOSED WATER SUPPLY WELL USE New Damestic U Replacement Domestic U Municipal O Intigation C Industrial O Other O	including piezometeks  I. Minimum systace seal thickness is two inches of central grounglaced by tremis,  2. Minimum seal stepth for monitoring wells is the maximum death provided on 20 feet
DRILLING METHOD!  Mud Rougy II Air Koury II Auger & Cable II Other II	D. GEOTRCHNICAL  Backini bors hole by tremid with examini grout of same at grouter and mixture. Upper two-three fact replaced in kind or with compacted equings.  E. CATHODIC
DRILLER'S LICENSE NO. C57 512 268	Fill hole angle zone with construte placed by fremis.  F. WELL DESTRUCTION  Sond I mus of work the A recent party is a second
Delil Hole Dismeter 1/4 in. Maximum Casing Dismeter 2 in. Dupth 20 ft. Surface Shall Depth 6 ft. Owner's Well Number	C. SPECIAL CONDITIONS  NOTE: One application must be submitted for each woll or well destruction. Multiple before the number of sections and sections.
Humber of Burnessin. BenthR.	for geographical and confirmination largestland.
STIMATED STARTING DATE 7/29/02 STIMATED COMPLETION DATE 7/29/02	TARY 50 00 50
heraby agree to comply with all requiremphia of this permit and Alameda County Ordina	APPROVED DATE - 22-07
APPLICANT'S SIGNATURE DATE:	19/82 V
LEABE PRINT HAME, PROPERTY THE TITLE REVS. 1	3.00

07/20/2002 11:06

9252836121

AEI CONSULTANTS (SF)

PAGE 84 11 01



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94(44-1395

PHONE (514)-876-5581 MARKON MACALLANEA FRANK CODD (510)-578-5785

FAX (510)783-1955

(510) 670-6633 JamesyDU

## DETT TIME D

	MIT APPLICATION
FOR APPLICANT TO COMPLETE	, , , , , , , , , , , , , , , , , , , ,
LOCATION OF PROJECT	FOR OFFICE USE
1240 Powell Street	PERMIT NUMBER 1/10-0667
Emerguillo, CA	WALE NUMBER
	N.F.
Name Wells Fargo Bank	PERMIT CONDITIONS
Name Wells Fargo Bank	CHEICA Purplic Requirements Apply
Addres 3645 Cardiff Ave Phone 310 559 7050	A. GENERAL
1 Par (# 141)	1. A permit application should be submitted so at to
Maria A WY Classes and a	proposed should be build live any prior to
Address 3210 Old Tunnel Robbone 925/283-6121 Chy. Lafayetto Ca.	I do culture to A Product a way of the
Address 3 2 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Well Completion by Walter Relatiness.
Cly Lafayetto, CA Zip 94540	Property I.
	B. WATER SUPPLY WELLS
TYPE OF PROJECT Well Construction	L Minimor walls
Cathodic Protection Octobecknical Investigation	i. Minimum surface soul thickness is two mehes of
Waler Supply	
Montoning Distriction	Industrial wells or 30 feet for municipal and Wells unless a least destine domestie and infigurion Wells unless a least death destined and infigurion
	C. GROUNDWATER MONTOCOME appointly approved.
ROPOSED WATER SUPPLY WELL USE Now Domonde G Roplement	C. GROUNDWATER MONITORING WELLS
Musich I Replacement Demestic of	** PI WITHIN SUPPOSE and White
taskusasian ii companium m	coment grout placed by Parite.
T QUIEF 0	2. Minimum real denth for
RILLING METROD:	D. GEOTECHNICAL
Mud Robry 13 Air Roury 17 Auger at	
Dinor	Dockill bors hale by sends with cament grout or earnens
RILLER'S HAME Spectrum Exploration	on white an area and a street with the contract in kind
RILLER'S LICENSE NO. C57 512 268	Fill hole anode zone with concrete placed by tremic.
	Send a man of women and
BLL PROJECTS	for well desper than 45 feet.  O. SPECIAL CONDITIONS
Drill Hole Drameter 8 1/4 in. Maximum  Gasing Diameter 2 in. Depth 20 0	
Surfaced Sent Depth 6	NOTE: One application must be submitted for each Well or well destruction. Multiple borings on the application well are well
CALUCLE AND MITTERS OF AND	destruction. Multiple bodings on one application are encounted for geolechnical and contamination (geolechnical and contamination (geolechnical)
	for geolechnical and contamination leverilgations, encountry
Number of Ronags Maximum  Holo Diameter In. Denth	X.EX
TMATED STARTING DATE 7/29/02	. 110
IMATED STARTING DATE 7/29/02 IMATED COMPLETION DATE 7/29/02	hallox .
roby street to comply with all requirements of this parmit and Alameda County Oldin	APPROVED QATE )-22-2
The state of this parmit and Alameda County Olding	PATE / PATE
LIGANT'S SIGNATURE	0/0-1/
ASSEPTION NAME PETER MCINTULE	4&7 ( ) °



# 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. W02-0695** 

# WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE

# G. SPECIAL CONDITIONS #1 PLACEMENT OF MONITORING WELLS IN PUBLIC RIGHT-OF-WAY

- 1. Prior to installation of any monitoring wells into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permits(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 2. Wells in the public right-of-way shall have a minimum surface seal depth of five (5) feet or the maximum depth practicable or twenty (20) feet.
- 3. Wells in the Public right-of-way shall have a Christy box or similar structure (flush with the road), with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or road construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
- 4. 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.
- 5. Compliance with the above well-scaling specifications shall not exempt the well-scaling contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days.
- 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.

and a reduce the a respect to be seen to be a second	Public Works	
ENCROACEMENT PERMIT		FOR CITY USE ONLY
(tev.9/22/00)	and the second of the	Permit No 02 07 02 Date 7/3/02
	100 100 100 100 100 100 100 100 100 100	Permit Nov 2 102 Date //3/02
APPLICANT AEL CONSU	1fants	Polinit Admin. Fee 150,00
CONTACT PERSON POLES	MCINTIVE	Est Inspection Time
ADDRESS 32/D Blc Tuny PHONE 25 944-2899 FA	PONE POLICEPOS	Permit Insp. Deposit (2 hr. miln.) . 150.00 Required Society Deposit:
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LACOCHE CA 94 OWNER BEVELOPER OF FACIL	rines Wells Favgo Box	t \$10,000 Bond
ADDRESS 36 45 COVALLE		i 100% Pers Bond
PHONE 3/0 SS9 TOSO FA		Bond Value
	and the second	Hond No.
CONTRACTOR DOING WORK A	EI Consultaints	Total Payment Required
CONTACT PERSON 12 121	McIntyre	Received: Date
ADDRESS 3210 Old Tu HONE 95 944-2899 FA	nnel Ad Stell	Robolpt No.
ICENSE NO. 659 9/9	ILASS A WOZ	
LOW Date CURRENT CITY BUST	NESS TUCENSE ON FILE	
o no PROVIDE PROOF OF	NSURANCE	
ST. START DATE 1/22/04 EST	COMPLETION DATE 7 2	to y EST. COST IN CITY INW Z YOU -
	0 0 60 2	
OCATION OF WORK 12.40	HOWEIT THEET	y 4 meny dille
ULLY DESCRIBE PROPOSED WOL	or within city right of	WAY (additional space on reverse if needed)!
tinch B complete sets of plans, if appli	cable.	are manifered well
Install one (1) 2	" arramosen i	0 0
with in 84" Bant	y - Constructed	per DWA regs, see At
	The second second	nios in overy Way from all chains of suits for highly on
amage to persotis or property as set forth in	rthe Standard Punyleibne. Fagree no	ot to pegin construction until all materials to be used are
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# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

MW-1

Project Name:	WFB	Date of Sampling: 8/13/2002
Job Number:	5272	Name of Sampler: N. Garfield
Project Address:	1240 Powell Street, Emeryville	

Well Casing Diameter (2"/4"/6")		2	7.15
		4	
Wellhead Condition	OK		\₩
Elevation of Top of Casing (feet above msl)		28.17	
Depth of Well		20.00	20.0
Depth to Water (from top of casing)		7.69	
Water Elevation (feet above msl)		20.48	
Well Volumes Purged		3	
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		5.9	
Actual Volume Purged (gallons)		6.0	
Appearance of Purge Water		brown, turbid. Clears quickly	-
Free Product Present?	No	Thickness (ft):	

Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1:20	1.5	24.5	6.63	1044			
1:21	3	22.5	7.06	1048			ASSAULT NAME
1:23	4.5	21.5	7.16	1061			
1:24	6	20.9	7.13	1066			

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)				
No odor				

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Project Name:	WFB	Date of Sampling: 8/13/2002
Job Number:	5272	Name of Sampler: N. Garfield
Project Address:	1240 Powell Street, Emervville	

Monitoring Well Number:

MW-2

Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	26.17		
Depth of Well		20.00	
Depth to Water (from top of casing)	8.58		
Water Elevation (feet above msl)	e msl) 17.59		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	5.5		
Actual Volume Purged (gallons)	7		
Appearance of Purge Water			
Free Product Present?	No	Thickness (ft):	•

nber of Samples/Container Size			4 40mL VOA, 1 1L amber				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments

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

# AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

MW-3

Designt Name: WFB	
Project Name.	Name of Sampler: N. Garfield
Job Number: 5272 Project Address: 1240 Powell Street, Emeryville	

Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	OK	<b>\</b>	
Elevation of Top of Casing (feet above msl)		28.62	
Depth of Well	20.00		
Depth to Water (from top of casing)		8.28	
Water Elevation (feet above msl)	20.34		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	5.6		
Actual Volume Purged (gallons)			
Appearance of Purge Water			
Free Product Present?	Yes / No	Thickness (ft):	

ber of Samples/Container Size			4 40mL VOA, 1 1L amber				
Time	Vol Removed (gal)		рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comment

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

# Alameda County

SEP 1 5 2005

# Environmental Health

### McCampbell 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

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Reported: 11/02/04
	Client P.O.:	Date Completed: 11/03/04

WorkOrder: 0410425

November 03, 2004

Dear Estelle:

Enclosed are:

- 1). the results of 5 analyzed samples from your 1240 Powell Street project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Angela Rydelius, Lab Manager



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

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Extracted: 10/30/04
Zinday vines, Ozro 1000	Client P.O.:	Date Analyzed: 10/30/04

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

ab ID	Client ID	Matrix	TPH(g)	MTBE	Damasa	77.1	Ed n I	77.	1 5 5	I
AU 117	CHGIN ID	Manix	rrn(g)	MIBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S
001A	Trip Blank	w	ND	ND	ND	ND	ND	ND	1	99,
002A	MW-2	w	ND	ND	ND	ND	ND	ND	1	98.
003A	MW-I	w	ND	ND	ND	ND	ND	ND	ı	99.
004A	MW-3	w	ND	ND	ND	ND	ND	ND	1	99.0
005A	MW-DUP	w	ND	ND	ND	ND	ND	ND	1	103
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above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K
* water and vapor samples an product/oil/non-aqueous liqui	d all TCI d sample	P & SPLP extracts in mg/L.	cts are reported in	ug/L, soil/sludge	solid samples in	mg/kg, wipe sa	mples in µg/wipe	,	<del></del>

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

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



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

Soma Corporat	ion	Client Proje	ct ID: 1240 Powell Street	Date Sampled:	10/27/04		•	
1412 62nd Street				Date Received:	10/28/04		-	
Emeryville, CA	04608	Client Cont	act: Estelle Shiroma	Date Extracted:	10/28/04			
Effici yvine, CA	1 94000	Client P.O.:		Date Analyzed:	10/29/04	-10/30/	0/04	
		esel Range (C10	-C23) Extractable Hydrocar	bons as Diesel*				
Extraction method: SV	V3510C		Analytical methods: SW8015C		We	ork Order;	0410425	
Lab ID	Client ID	Matrix	ТРН(	d)		DF	% SS	
0410425-002C	MW-2	w	ND			1	88.0	
0410425-003C	MW-1	w	ND			1	94.0	
0410425-004C	MW-3	w	ND			1	94.0	
0410425-005C	MW-DUP	w	ND			1	94.0	
				The state of the s				
					·			

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

<sup>\*</sup> 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.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified 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; 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/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



<sup>#</sup> 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.



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Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

### Valatile Organics by P&T and CC/MS (Pagic Target Liet)\*

	Volatile Organic	cs by I	P&T an	d GC/MS (Basic Target List	)*		
Extraction Method: SW5030B		An	alytical Me	thod: SW8260B	Work	Order: 0	410425
Lab ID				0410425-002B			•
Client ID				MW-2			
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)	4.2	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	1,1,2-Tetrachloroethane	ND	1.0	0.5
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
		Suri	rogate Re	coveries (%)			
%SS1:	97.0	)		%SS2:	103		-
%SS3:	118						

Comments: \* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product /

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; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.



oil / non-aqueous liquid samples in mg/L.

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

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.



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Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Emery and, error to the	Chem P.O.			Date Ans	aryzen: 10/29/04-1	. 1/U 1/U	<i>)</i> 4	
Extraction Method: SW5030B	Volatile Organi	-		d GC/MS (Basic Target List	•	Order: 0	410425	
Lab ID 0410425-003B								
Client ID								
		MW-1						
<u>Matrix</u>		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	
Веплене	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)	0.71	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	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 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		
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5	
					1 140	1.0	0.5	
%SS1:	98.0		ogate Ke	coveries (%)				
%SS3:	<del></del>			%SS2:	101		·	
	116							
Comments:								

%SS1:	98.0	%SS2:	101
%SS3:	116		
Comments:			

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

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; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.



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

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.



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Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street	·	Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Extraction Method: SW5030B	Volatile Organics by P&T and GC/MS (Basic Target List)*  Analytical Method: SW8260B Work Order: 0410425							
Lab ID		0410425-004B						
Client ID	-	MW-3						
Matrix		Water						
Compound	Concentration *	DF	Reporting	I		22.2	Reportin	
			Limit	Compound	Concentration *	DF	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 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	
1,1,2,2-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 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	
					1110	1.0	ر.,ی	
%SS1:	000		vgate Re	coveries (%)				
%SS3:	96.0		-	%SS2:	102			
76553: Comments:	118				·			

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

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; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.



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

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.



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Work Order: 0410425

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

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

Extraction Method: SW5030B Analytical Method: SW8260B

EXPACTION METHOD. 3W3030B		All	aiyucai me	mod: 2M 8500B	WOIK	Oraer, o	410423				
Lab ID 0410425-005B											
Client ID				MW-DUP							
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	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				
1,1,2,2-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 (%)										
9/4 5 5 1 -	06.0			0/883.	100						

	Surrog	ate Recoveries (%)	
%SS1:	96.0	%SS2:	100
%SS3:	106		
Comments:			

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

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; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.



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

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

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### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0410425

EPA Method: SW80218	B/8015Cm E	Extraction:	SW5030	B	Batch	ID: 13741	S	Spiked Sample ID: 0410425-001A								
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)						
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High						
TPH(btex) <sup>£</sup>	ND	60	97.4	95.4	2.12	81.1	80.4	0.937	70	130						
мтве	ND	10	86.1	89.4	3.83	107	106	0.617	70	130						
Benzene	ND	10	105	112	6.03	99.5	100	0.979	70	130						
Toluene	ND	10	100	107	6.74	91.8	93.3	1.69	70	130						
Ethylbenzene	ND	10	103	107	3.91	96.1	97	0.946	70	130						
Xylenes	ND	30	91	95.3	4.65	85.3	86	0.778	70	130						
%SS:	99.0	10	112	115	2.81	107	105	1.49	70	130						

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

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

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

<sup>\*</sup> 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.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> 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

Matrix: W

WorkOrder: 0410425

EPA Method: SW8015C	E	Extraction:	SW3510	C	Batch	ID: 13740	S	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	Low	High					
TPH(d)	N/A	7500	N/A	N/A	N/A	90.5	89.3	1.36	70	130					
%S\$:	N/A	2500	N/A	N/A	N/A	86	86	0	70	130					

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

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

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

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

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

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

QA/QC Officer

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

### QC SUMMARY REPORT FOR SW8260B

Matrix: W

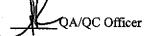
WorkOrder: 0410425

EPA Method: SW8260B	E	Extraction:	SW5030E	}	Batch	ID: 13739	s	piked Sampi	e ID: 04104	14-003B
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	83.1	78.7	5.45	85.2	82.2	3.59	70	130
Benzene	ND	10	116	114	1.33	119	120	1.34	70	130
t-Butyl alcohol (TBA)	ND	50	88.1	86.5	1.85	91.1	90.9	0.217	70	130
Chlorobenzene	ND	10	102	97.9	4.58	112	111	0.536	70	130
1,2-Dibromoethane (EDB)	ND	10	100	85.2	16.0	105	102	2.60	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	109	101	7.56	120	112	112 6.99		130
1,1-Dichloroethene	ND	10	120	111	7.84	122	124	1.28	70	130
Diisopropyl ether (DIPE)	ND	10	121	120	1.00	124	120 2.80		70	130
Ethyl tert-butyl ether (ETBE)	ND	10	117	113	3.51	122	117	4.04	70	130
Methyl-t-butyl ether (MTBE)	ND	10	109	98.2	10.0	113	107	4.93	70	130
Toluene	ND	10	107	103	4.10	116	118	1.38	70	130
Trichloroethene	ND	10	114	110	3.12	123	120	2.30	70	130
%SS1:	108	10	103	100	3.71	104	100	3.29	70	130
%SS2:	104	10	102	97	4.98	104	104	0	70	130
%\$\$3:	119	10	106	108	1.50	110	111	1.08	70	130

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

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

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



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

<sup>\*</sup> 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 splke and matrix spike duplicate.

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



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

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0410425

ClientID: SCE

Report to:

Estelle Shiroma Soma Corporation

1412 62nd Street

TEL:

(510) 654-3900

FAX:

(510) 654-1960

Emeryville, CA 94608

ProjectNo: 1240 Powell Street

PO:

Bill to:

Estelle Shiroma

Soma Corporation

1412 62nd Street

Emeryville, CA 94608

Requested TAT:

Date Received: 3:19 PM

Date Printed:

10/28/04

5 days

					Requested Tests (See legend below)															
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	3	7	8	9	10	11	12	13	14	15
0410425-002	MW-2	Water	10/27/04 2:48:00		В	A	С		1-	1					]		T			<del></del>
0410425-003	MW-1	Water	10/27/04 3:31:00		В	Α	С		<u> </u>											+
0410425-004	MW-3	Water	10/27/04 4:17:00		В	Α	С				<del> </del>						<del>  -</del>			+
0410425-005	MW-DUP	Water	10/27/04 4:47:00		В	Α	С		1	-					<u> </u>					+

#### Test Legend:

1	8260B_W
6	
11	

2	G-MBTEX_W
7	
12	

3	TPH(D)_W
8	
13	

4	
9	
14	

5	
10	
15	

Prepared by: Melissa Valles

#### Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

M	IcCAMP	10 2nd A	ANA VENUE SE CO, CA 94	OUTH	,#D7	AL	, I	VC.						CHAIN OF CUSTODY RECORD TURN AROUND TIME										lx.									
Web	site: <u>www.mc</u>	campbell	. <u>соп</u> Ет	ail: m	ain@ı																			RUS	SH	24	HR		48	HR	72	HR	•
Report To: Est	ie: (925) 798	-1020	<del></del>	Rill T	. <	ax:	(925	) 79: 0	8-16	522 +2	Ü		$\dashv$	EL	)F F	cequ	пгес	urv		····						Vinto	e On	ג (D	W)				
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Eme	ryville of	7 9460 f	8 3	E-Ma	il:								7	+ 8015)/MTBE		B&F	æ		·			-				310							Samples
Tele: (510) 654-3900 Fax: (510) 654-1960											15)/\		E&F	(418									8270 / 8310							for Metals analysis:			
Project Warne: 1242 Parall Stant										2		98		520 ]	Suc		20)		<b>5</b> 4					827							Yes / No		
Project Location: 1240 Powell Street Emerville CA											020		se (5	ξ.		/ 80.		NE,					625 /	070	020	6			- [				
Sampler Signatur	e: Vityul			<u> </u>		Т							_	(602/8020		Grea	droc		602		's O			3	_		9/0	9/6	601				
	·	SAM	PLING	. gs	Siers		MAT	RD	Κ.		IETI ESE		D .	Gas	8015	Sil &	n Hy	/ 802	EPA		PCB	,	-	4 / 82	8270	by E	s (601	(601	/ 6.00				
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	HCL	HNO,		BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)				
Tria Blank		10/27/04	13:60	2	40 ml Va C	X		1		X	X	$\top$	1	Z						******	-	•										-	
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MW-1		19/27/31	15.31	4	1	X.				X					X									Ϋ́						$\rightarrow$		+	
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