May 1999

UST CLOSURE REPORT

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

EAST BAY PAINT YARD SAN FRANCISCO OAKLAND BAY BRIDGE AT BURMA ROAD OAKLAND, CALIFORNIA 94649

TASK ORDER No. 43A0006-70

Prepared for:

Alameda County Health Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Caltrans
District 4
111 Grand Avenue
Oakland, California, 94623

Prepared by:

A.E. Schmidt Environmental 16509 Saticoy Street Van Nuys, California 91406 (818) 786-2373



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State of California
Department of Transportation

East Bay Paint Yard
San Francisco Oakland Bay Bridge
at Burma Road
Oakland, California 94649

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Tom Thorne Task Order Project Manager

> Don Indermill, R.G. Project Geologist

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1. INTRODUCTION

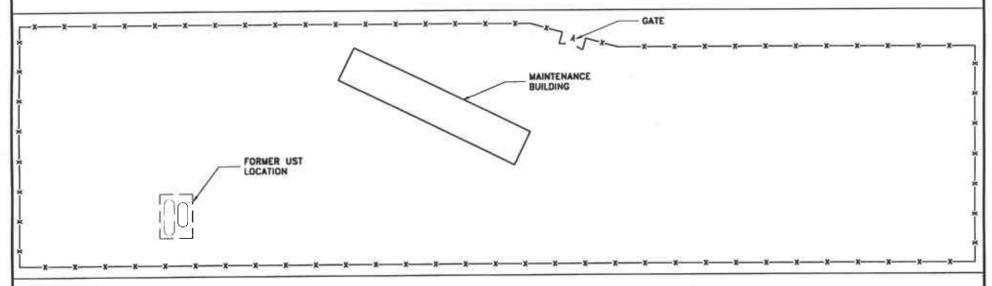
This report documents the removal of two underground storage tanks (USTs) completed by Bradley Environmental Services for the State of California, Department of Transportation (Caltrans). Caltrans requested that A.E. Schmidt Environmental (AESE) provide this report in conjunction with supplementary subsurface assessment as described below. The narrative is based on documents that originated with Bradley. The USTs were located at the Data Bay Paint Yand on Burma Road adjacent to the San Francisco Onkland Bay Bridge in Onkland, California. The closure involved the removal of one 4,000 gallon diesel UST and one 2,000 gallon gasoline UST. Both USTs were single-walled fiberglass.

The UST removal activities included the excavation and removal of the USTs, soil and water sampling, and backfilling of the excavation. Related activities included removing the remaining product from the USTs, transporting the USTs to a disposal facility, and soil sample analysis by a certified laboratory. Supporting documentation such as permits, manifests, and laboratory results are presented in Appendices A through D.

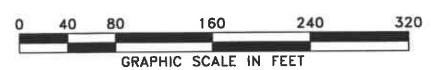
2. SITE DESCRIPTION

The subject facility serves as a staging area for maintenance and construction activities. The facility is located in an area of heavy industry. The facility consists of several large maintenance buildings and several outlying sheds and canopies. Figure 1 shows the plan view of the site and the outline of the former UST cluster.

INTERSTATE 80 TO OAKLAND



BURMA ROAD





SCALE 1" = 80'

FIGURE

Drown By:	A VILLANUEVA		
Approved By:	D INDERMILL		
Dole:	5/22/99		
Job No.:	1193		
Files	EAST BAY		

EAST BAY MAINTENANCE YARD BURMA ROAD OAKLAND, CALIFORNIA





1

SAMPLE PLAN VIEW

3. UST REMOVAL OPERATIONS

3.1 Permits

Prior to commencing field work, Bradley secured a permit from the <u>City of Livermore</u> (dated January 22, 1998, see Appendix A) and notified Underground Service Alert (Reference number 147347), and Cal-OSHA (permit number 97-902578). Bradley holds General Engineering "A-Haz" State contractors License Number 661390.

3.2 UST Excavation

The excavation of the USTs was initiated on January 27, 1998. The pavement over the USTs, dispenser island, and soil overburden were excavated and stockpiled for disposal.

3.3 UST Removal Procedures

Ramos Environmental pumped the USTs of any remaining product and rinsed them, producing approximately 500 gallons of rinseate. Bradley placed 60 pounds of dry ice in the diesel UST and 50 pounds of dry ice in the gasoline UST. When the lower explosivity limit was sufficiently decreased, Inspector Gomez of the City of Oakland authorized the USTs for removal. The USTs were removed from the excavation and loaded onto an awaiting flatbed truck for disposal.

All rinsate and associated fluids were disposed of at Ramos Environmental Services, 1515 South River Road, West Sacramento, California 95691. The USTs were transported to the Erickson Facility at 255 Parr Boulevard in Richmond, California. The manifests for the rinseate and USTs and certificates of acceptance for the USTs are included in Appendix B.

3.4 Dewatering of the Excavation

Water infiltrated the excavation as shallow as 14 inches below grade and had to be pumped out to permit the UST removal. The water was stored temporarily on site in portable tanks and then shipped as a non hazardous material to Seaport Environmental in Redwood City, California. A total of 43,750 gallons of water were handled in this way. It is likely that the quantity of water infiltrating the excavation was increased due to the increased rainfall of an "El Nino" weather condition.

4. SOIL AND WATER SAMPLING BY BRADLEY

4.1 Sampling Following UST Removal

Following removal of the USTs from the excavation, soil and water samples were collected as directed by Inspector Gomez. Samples were collected of the soil adjacent to the former USTs and of the stockpile of excavated soil. Samples were also collected of the water than infiltrated the excavation. It is not clear, from the information provided by Bradley, precisely where the samples came from.. The samples were retained in either brass sleeves or glass jars, sealed with Teflon and plastic caps. The water samples were retained in one-liter amber jars and 40-ml vials. The samples were chilled as they were transported to the lab accompanied by a chain of custody document.

The samples were analyzed at Sparger Technology in Sacramento, California. The samples were analyzed for various constituents including total petroleum hydrocarbons as gasoline (TVH) using the DHS LUFT method, total petroleum hydrocarbons as "diesel, motor oil, and kerosene" (TEH) using the DHS LUFT method, benzene, toluene, xylenes, ethylbenzene (BTEX), and methyl tert-butyl ether (MTBE) using EPA Method 8020, and total lead using EPA Method 6010. The chains of custody and laboratory results are presented in Appendix C.

4.2 Analytical Results from UST Removal

The laboratory results for soil samples collected January 29, 1998 are summarized in the following table.

TABLE 1: Analytical Results from January 1998 Samples.

SAMPLE	TVH (ppm)	TEH (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Lead (ppm)
Soil								
Soil W	nd	250	nd	nd	nd	nd	nd	26
Composite leachate	nd	3	nd	nd	nd	nd	nd	2.5
Composite I	6	110	nd	35	31	250	nd	6.1
Water								
Water 1	-	3.8		2		-	-	-
Water 2	14	150	55	1,200	210	1,300		
Water M	nd		nd	nd	nd	nd	nd	12

5. POST UST REMOVAL ACTIVITIES

5.1 Stockpile Disposal

One hundred and eight cubic yards of the soil which was stockpiled during the UST removal process was transported to Laidlaw Environmental's Class I landfill in Buttonwillow, California. The manifests are presented in Appendix B.

5.2 Backfill and Compaction

Bradley back-filled and compacted the excavation utilizing imported fill. At this time, Bradley's contractual relationship with Caltrans ended and, as of this writing, the area has not been resurfaced. Bradley did not provide a compaction testing report.

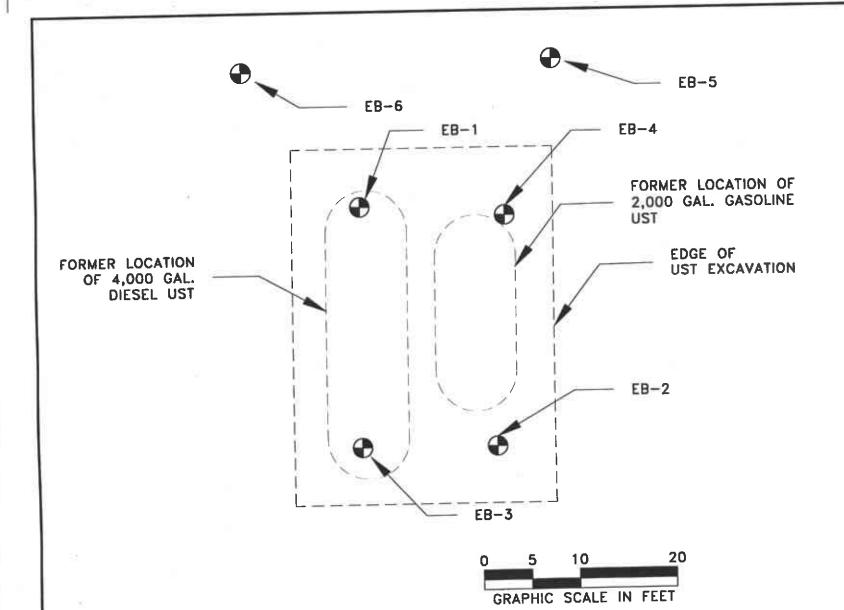
6. SOIL & WATER SAMPLING BY AESE

Caltrans retained AESE to perform a subsurface assessment at the location of the former USTs. On February 2, 1999, AESE mobilized to the site with a hydraulic probe rig. The sample locations and analyses were coordinated with Lawrence Seto of the Alameda County Health Agency, as well as Carlos Lopez and Manuel Miranda of Caltrans. The probe was pushed into the ground in the six locations (EB-1 through EB-6) shown in Figure 2. No soil samples were collected because water was present at one foot below grade. Water samples were collected from each of the six locations.*

The samples were retained in sterile, appropriately preserved containers, labeled and placed on ice. The samples were logged on a chain of custody document and delivered to Centrum Analytical Laboratories, Inc. in Redlands, California. All of the samples were analyzed for TVH, TEH (by EPA modified method 8015), and BTEX and MTBE. In addition, Samples EB-1 and EB-2 were analyzed for total lead. Detected MTBE was quantified using EPA method 8260. The chain of custody and laboratory results are presented in Appendix C. The laboratory results are summarized in the following table.

TABLE 1: Analytical Results from February 1999 Samples.

Sample	TVH (ppm)	TEH (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Total Lead (ppm)
EB-1	nd	nd	nd	nd	nd	nd	51	1.2
EB-2	nd	nd	nd	nd	nd	nd	nd	nd
EB-3	nd	nd	nd	nd	nd	nd	nd	
EB-4	nd	nd	nd	nd	nd	nd	11	-
EB-5	nd	nd	nd	nd	nd	nd	9.1	-
EB-6	nd	nd	nd	nd	nd	nd	16	





SCALE 1" = 10'

Drawn By:	A VILLANUEVA
Approved By:	D INDERMILL
Dols:	5/22/99
Job No.1	1193
Files	EAST BAY

EAST BAY MAINTENANCE YARD BURMA ROAD OAKLAND, CALIFORNIA



AFCE	
A.E. SCHMIDT ENVIRONMENTAL INC	
ENGINEERS, PLANNESS AND CONTRACTORS	

2

FIGURE

SAMPLE LOCATIONS

7. GEOTECHNICAL INVESTIGATION

Caltrans directed AESE to perform a geotechnical investigation of the site in order to assess the compaction in the former UST excavation. On April 27, 1999, a firm subcontracted by AESE drilled two borings in the former UST location and found the backfill material to be "medium dense from approximately 0 to 4 feet, and very loose below a depth of approximately 4 feet." The full report is presented in Appendix D. The Report also discusses geotechnical conditions at a planned above ground storage tank location that is not pertinent to this closure report.

8. CONCLUSION

Two USTs were removed from the site in January 1998. Water and soil samples collected during the UST removal indicated some hydrocarbons were present in the subsurface (e.g. 55 ppb of benzene and 1,100 ppb of MTBE in groundwater). A substitute of the subsurface (e.g. 55 ppb of benzene and the substitute of the substi

9. RECOMMENDATION

Based on these results, AESE concludes that no further assessment or remedial action is warranted at the site and requests site closure.

APPENDIX A

Underground Tank Closure Permit

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DEPARTMENT OF ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PARKWAY, RM 250 ALAMEDA, CA 94502-6577 PHONE # 510/567-6700 FAX # 510/337-9335

closure, is dependent on compliance with accepted plans descriptional plans have been received and found eground Storage Tank Closure Permit Application to be acceptable and essentially meet the requirements of sets and Local Health Lews. Changes to your closure plans One copy of the accepted plans must be on the job and severable to all contractors and craftsman involved with the must be submitted to this this Department and to the Fire seuance of a) permit to operate, b) permanent after indicated by this Department are to essure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for Any changes or alterations of these plane and specifications and Building Inspections Department to determine if such Notify this Department at least 72 hours prior to the followers Alameda County Division of Hazardous Materials changes meet the requirements of State and local laws. THERE IS A FINANCIAL PENALTY FOR MOT OBTAINING THESE INSPECTIONS: 1131 Harbor Bay Parkway, Sulte 250 Removal of Tarrik(s) and Proing Alameda, CA 94502-6577 ACCEPTED and all applicable laws and regulations. Final Inspection Sampling construction/destruction. required inspections: **NOBERT** Contact Specialist BENOVE!

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1	Name of Business DEPARTMENT OF TRANSPORTATION
-L +	Name of Business (CIACIMENI OF HONSPORTATION
	Business Owner or Contact Person (PRINT) MIKE A. HILLIAGO SIO-286-4995
2.	Site Address SAN FRANCISCO/DAKLAND BAY BRIDGE - TOLL AREA
	city <u>OAKLAND</u> zip <u>94623</u> Phone <u>50-286.4475</u>
з.	Mailing Address // 6RAND AVE. / PO Box 23660
	city DAKLAND zip 94623 Phone 510-286-4495
4.	Property Owner DEPART MENT OF TRANSPORTATION
	Business Name (if applicable) CAL TRANS
	Address 11/6/200 AUE / 10 Box 23660
	city, State OAKLAND CA. Zip 94623
5.	Generator name under which tank will be manifested
	DEPARTMENT OF TRASPORTATION
	EPA ID# under which tank will be manifested c A D 9 8 2 0 2 8 6 6 4

. 6	Address 1815 1 20 ENVIRON MENTAL	
(5	Maree 101) WK/61/= 0 -	
,	CITY CA VERNE CA 91757	
(*)	Type H- HAZ	180
	100 12 40	
	*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires point actors to also hold Hazardous Waste Certification issued by the State Contraction issued by the State	rime
7.	Consultant (if applicable)	
	Address	-
	City, State	_
8.	Main Contact Person for Investigation (if applicable)	
	Name GARY SMITH Title Project MANAGER Company BRADLEY ENVIRONNE TO THE PROJECT MANAGER	
	Company Branch Proper manager	
	Company Bradley ENVIRONMENTAL	
	Phone 916-431-9354 1-800-235-5518	
٥.	underground tanks being closed with this	3
	piping being removed under this plan Affroy log'	
	owner or operator) 2	— tili
10	State Registered Hazardous Waste Transporters/Facilities (see	
** A	Indeperound storage tanks must be handled as hazardous waste **	
	$T_{\text{const}} = T_{\text{const}} = T_{\text{const}}$	
	Warmer KAMOS ENVIRONMENTAL	
	Name RAMIS ENVIRONMENTAL EPA I.D. No. CAO 044003554	2_
	Acidronns 1515 South River RO. EPA I.D. No. CAD 644003550	-
	CHUY SACRAMOUTO	_
	City SACRAMENTO State CA. Zip 9569/	-
	Parent/Residual Słudge/Rinsate Disposal Site	
	RAMOS ENVIRONMENTAL EPA ID# CAO 044003556	
	200 IF K 11120 IF K	
	SACRAMONTO State CA. 711, 95691	
	55 SEC	

	The same of the sa
	Name ERICKSON
N.,	Name <u>ERICKSON</u> EPA I.D. No. <u>CAO 005 Y663</u> Hauler License No. <u>OO19</u> License No. <u>III</u>
	Address 255 PARR RD. License Exp. Date 6/30/98
	city RICHMOND State CA. zip 9480/
	d) Tank and Piping Disposal Site
	Name ERICKSON EPA I.D. No. CAO 0094663
	Address 255 PARR RD BPA 1.D. No. CADOG94663
	other Klade A
	state 04. Zip 94801
1.	Sample Collector
	Name STEVE MOULIS / JEFF WILSON
	Company Broley ENVIRONMENTAL
	Address 5115-B HILLSDAVE CIR
	City EL Dorado AILLS state 4. Zip 55762 Phone 9/6-19/31-9
2.	Laboratory
	Name SPARCER TECHNOLOGY
	Address 3050 FITE CIR. SUITE 1/2
	City SACRAMENTO State CA. Zip 95827
	State Certification NoState Zip75 827
L3.	
	Have tanks or pipes leaked in the past? Yes[] No[] Unknown If yes, describe.
	4

Par dynamic

- 3 -

7.5

medicule to be used for rendering tank(s) inert:

TRIPLE RINGE TANKS AND VACIME RINGARD PER THUSAND. GAS TECK INDICATOR

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

Tank History and Sampling Information *** (see instructions) *** 15.

	Tank	Material to be sampled	
Capacity	Use History - include date last used (estimated)	(tank contents, soil, groundwater)	Location and Depth of Samples
2000 4000	USE FOR BUTH TANKS WAS	GASOLINE	TANK INVERT AND UNDER PIPE
9000	12/96	Diesel	TANK INVERT AND UNDER PIA-
	U		HAND ORDER FIRE
×			

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is Stockpiled Soil Volume (estimated)

Sampling Plan

DEE ATTACHES

Stockpiled soil must be placed on bermed plastic and must be completely

Will the excavated soil be returned to the excavation immediately after tank removal? [] yes [/] no [] unknown

If yes, explain reasoning

If unknown at this point in time, please be aware that excavated soil ma not be returned to the excavation without prior approval from Alameo County. This means that the contractor, consultant, or responsible part must communicate with the specialist IN ADVANCE of backfillir

16. Chemical methods and associated detection limits to be used for analyzing The Tri-Regional Board recommended minimum verification analyses

and practical quantitation reporting limits should be followed.

17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation	EPA or Other Analysis Method Number	Method
OIESEZ.	Method Number EPA 805m DIESEC	woodd minggr	Detection Limit
FAH TPH D Brex			
	TOU ((5000)		
GASOLINE	4	S	
MTBE	BTX & E & TPH (90260) TOTAL LEAD AA		
	SEE ATTACK	HART	
for a management	FOR G	PA METHOLS	

16. Submit Worker's Compensation Certificate copy Name of Insurer __ 19. Submit Plot Plan *** (See Instructions) *** 20. Enclose Deposit (See Instructions) 21. Report any leaks or contamination to this office within 5 days of The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form. 22. Submit a closure report to this office within 60 days of the tank The report must contain all information listed in item 22 of the instructions. 23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner) I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true. I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division. and that no work is to begin on this project until this plan is approved. I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained. i understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections. CONTRACTOR INFORMATION Name of Business RADLEY ENVIRONMENTAL Name of Individual GARY SMITH Signature //// PROPERTY OWNER OR KOST RECENT TANK OPERATOR (Circle one) Name of Business DEPHKTHENT OF THANSPEKTATION Hame of Individual from PENNINGTON SPECIASTE PARE Thum 5 516 2 1 467 MIL for Lean Remonster. 10010 12/2/2/197 Birtha: mr.

APPENDIX B

Manifests and Certificates of Acceptance

UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Documen		1566 Society, College
WASTE MANIFEST	PHINAIRA	The state of the s	- 10.11	in not required by Federal lo-
3. Generator I Home ord, Madding Address DET ACT MERT OF THE STOBB-TOH PLZ-EAST OAKIANA, CA	CAIDIG BIZIOZIBI	664733	96	
STORE TOUTE OF THE	nsporter		小品类的	P 31 51 € 51 51 51
OAKIANA, CA	BM PATHY YHEA		allower the amount	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM
4. Generator's Phane (SIO) 784-C	740		6. Marie Generator's ID	4.
5. Trensperter I Company Name	A. US EPA ID No	mber		1 45
- 1 1			- Disastal Microsoft 10"	""""""""""""""""""""""""""""""""""""""
BRICKSON INC	CADION	191466392	O. Company of the Party of the	- A- 1
7. Transparter 2 Company Name	B. US EPA ID NA	The state of the s	el contract to Line	
	Fig. 1		多级的人的	"是我们
9. Designated Facility Name and Site Address	IO. US EPA ID NO			
Erickson, Inc.		and an	Carling Continues	
255 Parr Blvd.		1		
Richmond, CA. 94601	IC A DICIO	1914 6 6 3 9 2		
1. US DOT Description (Including Proper Ship	ping Name, Housed Class and In Man	12. Contr	oinen 13. Total	14. Unit
		No.	Type Quantity	W/Vel
NON-ECRA Hazardous W	aste Solid			
Warte Don'ty Storage	Tank and access	1		
Waste Doubty Storage	HOU HOSOSIETE	a pipin 001	TEULOOO	P
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		The second second	STREET, STREET	
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Special Handling Instructions and Adelhonal Keep away from source U.G.S.T.'s 24 Hr. Cor	es of ignition Alwa	ys wear nanthar WWW. Shome 9/		ANN THE PROPERTY OF THE
Keep away from source U.G.S.T.'s 24 Hr. Con	es of ignition. Alwa Stact Name. Stave Me	WHY & Shone 9/	on when working 6-505 - 1197	i accurri
Keep away from source U.G.S.T.'s 24 Hr. Con	es of ignition. Alwantact Name. Sieve Mb	Willy & Shome 9/	on when working 6-505 - 1197	i acembri
Keep away from source U.G.S.T.'s 24 Hz. Con GENERATOR'S CERTIFICATION: I hereby a packed, marked, and labeled, and are in eff	es of ignition. Alwantact Name Streets declare that the contents of this consignal respects as proper condition for frompe	ment are fully and accurately all in by highway according to ap	Wigh Within 6-505 - 1/9 7	J Afficial (c)
Keep away from source U.G.S.T.'s 24 Hr. Cor Generator's Certification: I hereby a packed, marked, and labeled, and are in all If I om a large quantity generator, I certify economically provingly generator, I certify	declare that the contents of this consignar respects as proper condition for trustages that I have a program in place to re-	ment are fully and accurately all in by Highway according to ap dura the volume and seciety.	the white water that the same of worth percentage to the same of the s	I ATTEMBET
Keep away from source U.G.S.T.'s 24 Hr. Cor Generator's Certification: I hereby a packed, marked, and labeled, and are in all If I am a large quantity generator, I certify economically provingly generator, I certify	declare that the contents of this consignar respects as proper condition for trustages that I have a program in place to re-	ment are fully and accurately all the highway according to apotential to the volume and sealety.	the white water that the same of worth percentage to the same of the s	I ATTEMBET
Keep away from source U.G.S.T.'s 24 Hz. Cor GENERATOR'S CERTIFICATION: I hereby pocked, marked, and labeled, and are in all If I am a large quantity generator, I certify accommodily practicable and the I have all fluent to human health and the unvironment, wante management method first in available.	declare that the contents of this consignal respects so proper condition for frompe that I have a program in place to reacted the proplicable method of treatment of the same and that I can afford.	ment are fully and accurately all the highway according to apotential to the volume and sealety.	the white water that the same of worth percentage to the same of the s	I ATTEMBET
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	If an a large quantity generator, I certify that i has procurable and that I have selected the practicable and the environment OR if I am a small quantity generator. I certify that I have selected the practicable and that I have selected the practicable and that I have selected the practicable and that I am a small quantity generator. I would be available to me and that I am efford.	in the comments of this consignment are fully as our condition for transport by highway according a program in place to reduce the volumenthal of treatment, stange, or disposal commentary. I have made a good faith effort to improdure	ding to upplicable e and toxicity of —	JOBS	632/006 by proper shipping I and notional go	g name and a versionent regu- I have deless istent and futur gest write ma	e cossiliad acci ulariors ninco to be econ re threat to numa magement metho
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DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

P.10 NO.28043

CUSTOMER

CERTIFIED SERVICES COMPANY

255 Pana Boulevard • Richmond, California 94801	BRADLEY ENVIRO
	JOB NO.
	371566

FOR:	ERICKSON, INC.	TANK NO2181.	
LOCATION:	ICHMOND	DATE: 98/02/12	TIME:11:43
TEST METHODVISUAL_GA	STECH/1314 SMPN	LAST PRODUCT	ULG
Petroleum Institute and have	e found the condition no conditions existing	to be in accordance at the time the ins	accordance with the American with its assigned designation, pection herein set forth was structions.
TANK SIZE4000	GALLON TANK	CONDITION	SAFE FOR FIRE
REMARKS: OXYGEN 20 ERICKSON, INC. HERE CUT OPEN, PROCESSED WASTE FACILITY, ERICKSON, INC. HAS SHIPPED TO US FOR P	BY CERTIFIES THAT AND THEREFORE D THE APPROPRIATE P	THE ABOVE NUMBE ESTROYED AT OUR	RED TANK HAS BEEN
STANDARD SAFETY SAFE FOR MEN: Means that in the 19.5 percent by volume; and that (DESIGNATION compartment or space so of the lower explosive limit; a concentration that permittee on the inspector's certificate.	Inls permit is valid for 24 lesignated (a) The oxygen mosphere are within permit oducing toxic materials upon that (b) In the judgment and that (b) In the judgment and further, (c) All adias	the above tanks, or if in any doubt, hours if no physical or atmospheric content of the atmosphere is at least scaple concentrations; and (c) In the order existing atmospheric conditions attorn of flammable materials in the order of the inspector, the residues are ric conditions in the presence of fire tent spaces have either been cleaned tanks, have been treated as deemed
The undersigned/representative ack which it was issued.	nowledges receipt of this ce		the conditions and fimitations under
Whitelest are sold to the second	11155	IN	arcu i ŲĄ

(510) 235-1393

CERTIFICATE,

CERTIFIED SERVICES COMPANY
255 Parr. Boulevard - Richmond, California 94801

NO. 28044

CP5885

BRADLEY ENVIRO JOB NO. 971566

FOR: ERICKSON, INC. TANK NO. 21812.

RICHMOND LOCATION; DATE: 98/02/12 TIME: 11:43 VISUAL GASTECH/1314 SMPN LAST PRODUCT____ This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions. 4000 GALLON TANK TANK SIZE SAFE FOR FIRE CONDITION_ OXYGEN 20.9% LOVER EXPLOSIVE LIMIT LESS THAN 0.1% REMARKS: ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ERICKSON. INC. HAS THE APPROPRIATE PERMITS FOR. AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING. In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, Immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the inspector's certificate. SAFE FOR FIRE; Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and white maintained as directed on the inspector's certificate, and further. (c) All adjacent spaces have either been cleaned sufficiently to prevent the apread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued. EPRESENTATIVE TITLE

APPENDIX C

Certified Analytical Reports



EPA Method 8020/DHS TPH LUFT as Gas Analysis Report

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled: Date Received:

Date Analyzed:

invoice #:

Jan 30, 1998 9050JAN98

Jan 29, 1998

Jan 29, 1998

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Soil W

LAB ID:

9050-001A

Matrix:

Soil

Dilution:

1:

1

		Reporting	
Analyte	Concentration	<u>Limit</u>	Units
Methyl-tert-butyl-ether (MTBE)	ND	0.005	mg/kg
Benzenê	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes .	ND	0.005	mg/kg
TPHgas	ND	1.0	m g /kg
Surrogate % Recovery of Trifluorotoluene =	67%		

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= perts per million = mg/kg = milligrems per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

James, Principal Chemist

Feb 6, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. 16 CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Cartification No. 1614)

8020001



EPA Method 8020/DHS TPH LUFT as Gas **Analysis Report**

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Jan 29, 1998

SPARGER

Date Received: Jan 29, 1998

Date Analyzed: Jan 30, 1998

Invoice #:

9050JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Water M

LAB ID:

9050-005A

Matrix:

Water

Dilution:

1: 100

		Reporting	
Analyte	Concentration	Limit	Units
Methyl-tert-butyl-ether (MTBE)	410	50	ug/l
Benzene	ND	50	ug/ī
Toluene	190	50	ng/l
Ethylbenzene	100	50	ug/l
Xylenes	500	50	ug/l
TPHgas	33000*	5000	u g∕l
Surrogate % Recovery of Trifluo	rotoluene = 83	9%	

ppt = parts per billion = ug/l = micrograms per litter

ppe = parts per clinion = ug/m = micrograms per millifier

ppm= parts per million = ug/m1 = micrograms per millifier

NO = Not Detrotted. Compound(s) may be present at concentrations below the detection limit.

* Weathered TPH gas was present.

James, Principal Chemist

Feb 6, 1998 **Date Reported**

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

8020005



EPA Method 8020/DHS TPH LUFT as Gas Analysis Report

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Jan 29, 1998 Date Received: Jan 29, 1998

Date Analyzed: Jan 30, 1998

9050JAN98

Project #:

7379

Project Name:

Invoice #:

East Bay Paint

Client ID:

Water 2

LAB ID:

9050-004A

Matrix:

Water

Dilution:

1: 100

Analyte	Concentration	Reporting Limit	Units
Methyl-tert-butyl-ether (MTBE)	.1100	50	ug/l
Benzene	55	50	ug/l
Toluene	1200	50	ug/l
Ethylbenzene	210	50	ug/l
Xylenes	1300	50	ug/l
TPHgas	14000	5000	ug/l
Surrogate % Recovery of Trifluo	protoluene = 86	%	

pub = parts per billion = ug/, = micrograms per liter

parts per million = ug/ml = inforegrams per million

ND = Not Detroted. Compound(s) may be present at concentrations below the detection limit.

L. James, Principal Chemist

Feb 6, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)



EPA Method 8020 Modified Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Date Received:

Date Analyzed:

Jan 30, 1998

Invoice #:

9050JAN98

Jan 29, 1998

Jan 29, 1998

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

9050-LCS 9050-LCSD

Matrix:

Water

Dilution

1: 1

Analyte	Spike Added	Sample Conc.	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery	QC RPD	Limits %Rec
_			••	00	A	87%	87%	0%	20	65-135
Benzene	30	ND	26	26	ug/i	0170	Q1 76	9 70		
Toluene	30	ND	26	25	ug/i	87%	83%	4%	20	65-135
Ethylbenzene	30	ND	26	25	ug/l	87%	83%	4%	20	65-135
m,p-Xylenes	60	ND	55	52	ug/l	92%	87%	6%	20	65-135
o-Xylenes	30	ND	26	25	ug/l	87%	83%	4%	20	65-135
Surrogate % Recovery of Trifluorotoluene =				86%	LCS	86%	6 LCSD			

ppb = parts por bisign = ug/l = micrograms per liter

pom= parts per million = Ugint = micrograms per milliter

R. L. James, Principal Chemist

Feb 6, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Confication No. 1514)

8020lcsw



EPA Method 8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD) BTEX Analysis Report

Attention:

Mr. Gary Smith

ry Smith Date Sampled:

Date Sampled: Date Received: Jan 29, 1998

Bradley Environmental 5175-B Hillsdale Circle

Date Analyzed:

Jan 29, 1998 Jan 30, 1998

El Dorado Hilis, CA 95762

Invoice #:

9050JAN98

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD (Batch)

LAB ID:

9035-001MS

Matrix:

Water

Dilution

9035-001MSD 1: 1

Analyte	Spike Added	Sample Conc.	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery	QC Limits	
									RPD	%Rec
Benzene	30	ND	25	25	ug/l	83%	83%	0%	20	65-135
Toluene	30	ND	25	25	ug/i	83%	83%	0%	20	65-135
Ethylbenzene	30	ND	25	25	ug/l	83%	83%	0%	20	65-135
m,p-Xylenes	60	ND	5 2	53	ug/I	87%	88%	2%	20	65-135
o-Xylenes	30	ND	25	26	ug/l	83%	87%	4%	20	65-135

Surrogate % Recovery of Trifluorotoluene =

83% MS

83% MSD

ppb = parts per billion 2 ug/l = micrograms per liter

para parts per million = up/nil = raccograme per milliter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Feb 6, 1998

Date Reported

SPARGER FECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1814)



EPA Method 6010 Metals, Lead (TCLP) LCS / LCSD Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 29, 1998

5175-B Hillsdale Circle

Date Requested: Feb 5, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Invoice #:

Mar 6, 1998 9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

980306B

Matrix:

Leachate

Units: (mg/l)

	Spike	_	LCS %		LCSD %	%
Element	Conc.	LCS	Recovery	LCSD	Recovery	RSD
Lead (Pb)	2.50	2.46	98.4%	2.37	94.8%	3.7%

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

NR = Not Recussed

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)



EPA Method 6010 Metals, Lead (TCLP) **MS / MSD Recoveries**

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 29, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 5, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Mar 6, 1998

Invoice #:

9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD

LAB ID:

9184-001A

Matrix.

Leachate

r							Units: (mg/l)
	Sample	Spike		MS %		MSD %	%
Element	Conc.	Conc.	MS	Recovery	M\$D	Recovery	RSD
Lead (Pb)	2.49	2.50	4.52	81.2%	4.75	90.4%	11%

ppm= parts par million = mg/) = miligram per liter

ND = Not Detected. Compound(s) may be present at concentrations before the detection limit

Note: If semple concentration is higher than spike concentration, recoveries may be either high or low,

Note: if sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interference.

Mar 9, 1998

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



EPA Method 6010 Metals, Lead (TCLP)

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Date Received:

Jan 29, 1998 Feb 5, 1998

Date Requested: Date Analyzed:

Mar 6, 1998

Jan 29, 1998

Invoice #:

9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Composite

LAB ID:

9184-001A

Matrix:

Leachate

		Reporting	
Name	Concentration	Limit	Units
Lead (Pb)	2.5	0.050	mg/l

ppm= perts per million = mg/l = milligrem per liter

NO = Not Detected. Compound(s) may be present at concentrations before the detection time.

L. Abellanosa, Inorganics Supervisor

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. 13 CERTIFIED BY THE STATE OF CALIFORNIA DEFARTMENT OF MEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1814)



EPA Method 6010 Metals, Lead (TCLP) Method Blank

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Jan 29, 1998 Date Received:

Jan 29, 1998

Date Requested:

Feb 5, 1998

Date Analyzed:

Mar 6, 1998

Invoice #:

9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Method Blank

LAB ID:

MB980306B

Matrix:

Leachate

Reporting

Limit

Units

Lead (Pb)

Name

ND

Concentration

0.050

mg/l

n= perts per million = mgR = milligrom per liter

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. 15 CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)



Salinity Analysis Report

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Date Received:

Date Requested:

Date Analyzed:

Invoice #:

Feb 2, 1998 Feb 3, 1998

Jan 29, 1998

Jan 30, 1998

9054JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Baker Tank Composite

LAB ID:

9054-004A

Matrix:

Water

Dilution:

			Detection	
	Amount	Reporting limit	Limit	_
Salinity	77	0.0100	ppt	

ppt = parts per thousand

N.A. = Not Applicable

N.D. = Not Detected. Compound(s) may be present at concentrations below the de

77 Pet = 17,000 ppm

Feb 4, 1998

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



EPA Method 624 GCMS Analysis Report

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Date Received:

Jan 30, 1998

Date Requested: Feb 2, 1998

Jan 29, 1998

Date Analyzed:

Feb 3, 1998

Invoice #:

9054JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Baker Tank Composite

LAB ID:

9054-002A

Matrix:

Water

Dilution.

	Name	Concentration	Reporting Limit	Units
1.)	1,1 - Dichloroethane	ND	5.0	ug/l
2.)	1,1 - Dichloroethene	ND	5.0	ug/l
3.)	1,1,1 - Trichloroethane	ND	5.0	ug/l
4.)	1,1,2 - Trichloroethane	ND	5.0	ug/l
5.)	1,1,2,2 - Tetrachloroethane	ND	5.0	. ug/l
6.)	1,2 - Dichloroethane	ND	5.0	ug/l
7.)	cis - 1,2 - Dichloroethene	ND	5.0	ug/l
8.)	1,2 - Dichloropropane	ND	5.0	ug/l
9.)	trans - 1,2 - Dichloroethene	ND	5.0	ug/i
-	2 - Butanone	ND	10	ug/l
,	2 - Hexanone	ND	10	ug/l
•	4 - Methyl - 2 - pentanone	ND	10	ug/l
•	Acetone	ND	25	ug/l
	Benzene	ND	5.0	ug/i
	Bromodichloromethane	ND	5.0	ug/l
•	Bromoform	ND	5.0	ug/l
	Bromomethane	ND -	5.0	ug/l
	Carbon disulfide	ND	5.0	ug/l
	Carbon tetrachloride	ND	5.0	ug/1
•	Chlorobenzene	ND	5.0	ug/l
	Chloroethane	ND	5.0	ug/l
	Chloroform	ND	5,0	ug/l
	Chloromethane	ND	5.0	ug/l
	cis - 1,3 - Dichloropropene	ND	5.0	ug/l
	Dibromochloromethane	ND	5.0	ug/l

perts per million = ug/mi= micrograms per milliter

: Not Detected. Compound(s) may be present at concentrations below the reporting limit



EPA Method 624 GCMS Analysis Report

Attention:

Project #:

Matrix:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

7379

Water

Client ID:

Baker Tank Composite

Project Name:

Invoice #:

Date Sampled:

Date Received:

Date Analyzed:

East Bay Paint

Jan 29, 1998

Jan 30, 1998

Feb 3, 1998

9054JAN98

9054-002A LAB ID:

Date Requested: Feb 2, 1998

Dilution:

Units Reporting Limit Concentration Name ug/l 5.0 ND 26.) Ethyl benzene ug/l 10 ND 27.) Methylene chloride ug/l 5.0 ND 28.) Styrene ug/l 5.0 29.) Tetrachloroethene ND ug/l 5.0 NÖ 30.) Toluene ug/l 5.0 ND 31.) Meta/Para-Xylenes ug/l 5.0 ND 32.) Ortho-Xylenes บดู/โ 5.0 ND 33.) trans - 1,3 - Dichloropropene ug/l 5.0 ND 34.) Trichloroethene ug/l 5.0 ND 35.) Vinyl acetate 5.0 ug/l ND 36.) Vinyl chloride Surrogate % Recovery 1,2 - Dichloroethane d-4 = 129% Surrogate % Recovery Toluene d-8 = 122% 124% Surrogate % Recovery 4 - Bromofluorobenzene =

pob = parts per billion = ugil = micrograms per liter

pom= parta per million = ug/ml= micrograms per millister

NO a Not Detected. Compound(s) may be present at concentrations below the reporting find

R. L. James, Principal Chemist

Feb 4, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)



EPA Method 6010/7470 Metals, CAM 8 Method Blank

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

-UD 4, (330

Invoice #:

9054JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Method Blank

LAB ID:

MB980204C Mercury

MB980202A ICP

Matrix:

Water

Dilution:

1: 1

Name	Concentration	Limit	Units	
Arsenic (As)	ND	0.10	mg/l	
Barium (Ba)	ND	0.020	mg/l	
Cadmium (Cd)	ND	0.0050	mg/l	
Chromium (Cr)	ND	0.010	mg/l	
Lead (Pb)	ND	0.010	mg/l	
Mercury (Hg)	ND	0.00020	mg/l	
Selenium (Se)	NO	0.10	mg/l	
Silver (Ag)	ND	0.010	mg/l	

pom= parts per militori = mg/r × milligrams per iller

ND = Not Optionis6. Compound(s) may be present at concentrations below the detection limit.

L. Abellanosa, Inorganics Supervisor

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF NEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1514)

6010mbw



EPA Method 6010/7470 Metals, CAM 8

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #:

9054JAN98

Project #.

7379

Project Name:

East Bay Paint

Client ID:

Baker Tank Composite

LAB ID:

9054-001A

Matrix:

Water

Dilution:

1: 1

	· · · · · · · · · · · · · · · · · · ·	Reporting	•
Name	Concentration	Limit	Units
According (Acc)	ND	0.10	mg/l
Arsenic (As) Barium (Ba)	0.059	0.020	mg/l
Cadmium (Cd)	ND	0.0050	mg/l
Chromium (Cr)	ND	0.010	mg/l
Lead (Pb)	NĎ	0.010	mg/l
Mercury (Hg)	0.00031	0.00020	mg/l
Selenium (Se)	ND	0.10	mg/l
Silver (Ag)	ND	0.010	mg/l
Silver (Ag)	ND	0.010	mg/l

ppm= posts per million = mg/l = milligrems per Rer

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit.

L. Abellanosa, Inorganics Supervisor

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

6010001



EPA Method 6010/7470 Metals, CAM 8 **MS/MSD** Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #:

9054JAN98

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD

LAB ID:

9042-009A

Matrix:

Water

Units: (mg/l)

	Sample	Spike		MS %	<u> </u>	MSD %	%
Element	Conc.	Conc.	MS	Recovery	MSD	Recovery	RSD
					0.550	111%	2.3%
Arsenic (As)	ND	0.500	0.566	113%	0,553	•	
Barium (Ba)	0.192	0.500	0.720	106%	0.704	102%	3.1%
Cadmium (Cd)	ND	0.200	0.218	109%	0.210	105%	3.7%
Chromium (Cr)	ND	0.500	0.527	105%	0.506	101%	4.1%
Lead (Pb)	ND	0.500	0.513	103%	0.490	98.0%	4.6%
Mercury (Hg)	ND	0.00100	0.00104	104%	0.00103	103%	1.0%
Selenium (Se)	ND	0.500	0.552	110%	0.552	110%	0.00%
Silver (Ag)	ND	0.0500	0.0490	98.0%	0.0495	99.0%	1.0%

ppm+ parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

Feb 4, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1814)

6010msw



EPA Method 8020/DHS TPH LUFT as Gas **Analysis Report**

Attention:

Mr. Gary Smith

Bradley Environmental 5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Invoice #:

Date Sampled:

Jan 29, 1998 Jan 29, 1998 Date Received:

Feb 3, 1998 Date Analyzed:

86/AL0506

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Composite

LAB ID:

9050-006A

Matrix:

Soil

Dilution:

5

Analyte	Concentration	Reporting Limit	Units
Allalyte			
Methyl-tert-butyl-ether (MTBE)	NĎ	0.025	mg/kg
Benzene	ND	0.025	mg/kg
Toluene	0.035	0.025	mg/kg
Ethylbenzene	0.031	0.025	mg/kg
Xylenes	0.25	0.025	mg/kg
•	6.0	5.0	mg/kg
TPHgas Surrogate % Recovery of Trifluorotoluene =	78%		

ppe = parts per billion = ug/kg = micrograms per kilogram

prome parts per million a mighty e milligrams per kriegram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

James, Principal Chemist

Feb 6, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1G14)

8020006.xls



EPA Method 6010/7470 Metals, CAM 8 LCS/LCSD Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

5175-B Hillsdale Circle

Jan 30, 1998

El Dorado Hills, CA 95762

Date Requested: Date Analyzed:

Feb 2, 1998 Feb 4, 1998

Invoice #:

9054JAN98

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

980204C

Mercury

980202A

ICP

Matrix:

Water

Dilution:

Units : (mg/l)

	Spike		LCS %		LCSD %	%
Element	Conc.	LCS	Recovery	LCSD	Recovery	RSD
Arsenic (As)	0.500	0.538	108%	0.555	111%	3.1%
Barium (Ba)	0.500	0.539	108%	0.539	108%	0.00%
Cadmium (Cd)	0.200	0.211	106%	0.214	107%	1.4%
Chromium (Cr)	0.500	0.518	104%	0.524	105%	1.2%
Lead (Pb)	0.500	0.514	103%	0.520	104%	1.2%
Mercury (Hg)	0.00100	0.000962	96.2%	0.000941	94.1%	2.2%
Selenium (Se)	0.500	0.550	110%	0.548	110%	0.36%
Silver (Ag)	0.0500	0.0505	101%	0,0514	103%	1.8%

ppm= parts per million = mgrl = millionems por liter

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit,

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



DHS TPH LUFT as Diesel Matrix Spike (MS) & Matrix Spike Duplicate (MSD) **TPHdiesel Analysis Report**

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle El Dorado Hills, CA 95762

Date Sampled:

Date Received:

Date Analyzed: Invoice #:

Feb 6, 1998

Jan 29, 1998 9050JAN98

Jan 29, 1998

Project #:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD (Batch)

LAB ID:

9052-002MS 9052-002MSD

Matrix:

Soil

Dilution:

Name	Conc. Spike Added	Sample Result	M\$ Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
TPHdiesel	10	ND	14	12	mg/kg	140%	120%	15%

pob = parts par billion = ug/kg @ micrograms per kilogram

= parts per million = mg/kg = milligrams por kilogram

NO = Not Detected. Compound(x) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



DHS TPH LUFT as Diesel Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) **TPHdiesel Analysis Report**

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle El Dorado Hills, CA 95762

Project #: 7379

LCS/LCSD Client ID:

Matrix:

Sail

Date Sampled:

Date Received:

Date Analyzed: Feb 6, 1998

Project Name:

Invoice #:

Jan 29, 1998 Jan 29, 1998

9050JAN98

East Bay Paint

LAB ID:

9050-LCS

9050-LCSD

Dilution:

Name	Canc. Spike Added	Sample Result	LCS Result	LCSD Resuit	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
TPHdiesel	10	ND	14	16	mg/kg	140%	160%	13%

ppm= parts per milion = mg/kg, milligrams per kilog-am

ND = Not Detected. Compound(s) may be present at concontrations below the detection limit.

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)



DHS TPH LUFT as Diesel, Motor Oil & Kerosene **Analysis Report**

Attention:

Project #:

Client (D:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hilis, CA 95762

Matrix:

7379

Soil W

Soil

Date Sampled:

Date Received:

Date Analyzed:

Invoice #:

East Bay Paint

LAB ID:

Project Name:

Dilution:

9050-002A

Jan 29, 1998

Jan 29, 1998

Feb 6, 1998

9050JAN98

Name	Amount	Reporting Limit	Units
TPHdiesel	ND	1.0	mg/kg
TPHmotor oil	250	50	mg/kg
TPHkerosene	ND	1.0	mg/kg

ppb = parts per billion < ug/kg = micrograms per kilogram

bbw= touts bet utilion a utique a utilibrant bet iqiogram

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit,

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Cortification No. 1614)



EPA Method 8020/DHS TPH LUFT as Gas Analysis Report

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental 5175-B Hillsdale Circle

Date Received: Date Analyzed:

Jan 29, 1998 Feb 3, 1998

El Dorado Hills, CA 95762

Invoice #:

9050JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Composite

LAB ID:

9050-006A

Matrix:

Soil

Dilution:

5

1:

	.	Reporting	
Analyte	Concentration	Limit	Units
Methyl-tert-butyl-ether (MTBE)	ND	0.025	mg/kg
Benzene	ND	0.025	mg/kg
Toluene	0.035	0.025	mg/kg
Ethylbenzene	0.031	0.025	mg/kg
Xylenes	0.25	0.025	mg/kg
TPHgas	6.0	5.0	mg/kg
Surrogate % Recovery of Trifluorotoluene =	78%		

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Feb 6, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

DHS TPH LUFT as Diesel, Motor Oil & Kerosene Analysis Report

Attention:	Mr. Gary Smith Bradley Environmental 5175-B Hillsdale Circle El Dorado Hills, CA 95762	Date Sampled: Date Received: Date Analyzed: Invoice #:	Jan 29, 1998 Jan 29, 1998 Feb 6, 1998 9050JAN98
Project #:	7379	Project Name:	East Bay Paint
Client ID:	Composite	LAB ID:	9050-007A
Matrix:	Soil	Dilution: 1:	1

Name	Amount	Reporting Limit	Units
TPHdiesel	9.7*	1.0	malka
TPHmotor oil	110	50	mg/kg mg/kg
TPHkerosene	ND	1.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram ppm= parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Feb 9, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

^{*} Unknown Hydrocarbon Pattern Was Present in TPHdiesel Range.



DHS TPH LUFT as Diesel, Motor Oil & Kerosene Analysis Report

Attention:	Mr. Gary Smith Bradley Environmental 5175-B Hillsdale Circle Ei Dorado Hills, CA 95762	Date Sampled: Date Received: Date Analyzed: Invoice #:	Jan 29, 1998 Jan 29, 1998 Feb 6, 1998 9050JAN98
Project #:	7379	Project Name:	East Bay Paint
Client ID:	Composite	LAB ID:	9050-007A
Matrix:	Soil	Dilution; 1:	1

Amount	Reporting Limit	Units
9.7*	1.0	mg/kg
110		mg/kg
ND	1.0	mg/kg
	9.7* 110	9.7* 1.0 110 50

ppb = parts per billion = ug/kg + micrograms per luogram

pom= parts per militan = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A MAZARDOUS WASTE YESTING LABORATORY

(Certification No. 1514)

^{*} Unknown Hydrocarbon Pattern Was Present in TPHdiese! Range.



EPA Method 6010 STLC Lead

SPARGER

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Received: Date Requested: Feb 26, 1998

Date Sampled:

Date Analyzed:

Invoice#:

Mar 2, 1998

Jan 29, 1998

Jan 29, 1998

9165FEB98

Project #:

7379

Project Name:

East Bay Paint

Matrix:

Leachate

Dilution:

1: 1

				Reporting	
Analyte	LAB ID	Client ID	Concentration	Limit	Units
Lead (Pb)	9165-001A	\$oil W	26	0.050	mg/l
Lead (Pb)	9165-002A	Composite	6.1	0.050	mg/i

pom= parts per million = mg/l = milligram per litter

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit.

L. Abellanosa, Inorganics Supervisor

Mar 2, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Confication No. 1514)



EPA Method 6010 STLC Lead MS/MSD Recoveries

SPARGER

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

mpled: J

Jan 29, 1998 Jan 29, 1998

Date Received:

Date Requested: Feb 26, 1998

Date Analyzed:

Mar 2, 1998

Invoice#:

9165FEB98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD

LAB ID:

9165-002A

Matrix:

Leachate

Dilution:

Units : (ma/l)

				_			11000
·	Sample	Spike		%	Duplicate	Duplicate	%
Element	Сопс.	Conc.	MS	Recovery	MSD	% Recovery	RSD_
Lead (Pb)	6.07	2.50	8.77	108%	8.35	91.2%	17%

ppm= parts per million = mg/l = milligrem por liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

Note: If sample concentration is higher than splke concentration, recoveries may be either high or low.

Note: If sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interf

Abellanosa Ingraanics Supervisor

Mar 2, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF MEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Condication No. 1614)

SPARGER



Analytical Laboratory Division **Mobile Laboratory Division** Scientific Division

EPA Method 6010 STLC Lead LCS / LCSD Recoveries

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled: Jan 29, 1998

Date Received: Jan 29, 1998

Date Requested: Feb 26, 1998

Date Analyzed: Mar 2, 1998

Invoice#:

9165FEB98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

980302A

Matrix:

Leachate

Dilution:

Units: (ma/l)

						9.774
	Spike		%	Duplicate	Duplicate	%
Element	Conc.	LCS	Recovery	LC5	% Recovery	RSD
Lead (Pb)	2.50	2.90	116%	2.57	103%	12%

ppm= parts per million = mg/l = milligram per litter

ND = Not Detected. Compound(s) may be present at concentrations below the detection time.

Mar 2, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



EPA Method 6010 STLC Lead Method Blank

Attention:

Mr. Gary Smith

Bradley Environmental 5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Date Sampled:

Jan 29, 1998 Jan 29, 1998

Date Received:

Date Requested: Feb 26, 1998

Date Analyzed:

Mar 2, 1998

invoice#:

9165FEB98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Method Blank

LAB ID:

980302A

Matrix:

Leachate

Dilution:

1: 1

		Reporting	
Analyte	Concentration	Limit	Units
Lead (Pb)	ND	0.050	mg/l

ppm= parts per million = mg/l = milligram per liter

ND = Not Datected. Compound(s) may be present at concentrations below the detection limit.

L. Abelianosa, Inorganica Supervisor

Mar 2, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

Sticpbmb



EPA Method 6010/7470 Metals, CAM 8 Method Blank

Attention:

Mr. Gary Smith

Date Sampled:

Јап 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #:

9054JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Method Blank

LAB ID:

MB980204C Mercury

MB980202A ICP

Matrix:

Water

Dilution:

1: 1

		Reporting	
Name	Concentration	Limit	Units
	MD	0.10	mg/l
Arsenic (As)	ND		mg/l
Barium (Ba)	ND	0.020	-
Cadmium (Cd)	ND	0.0050	mg/i
Chromium (Cr)	ND	0.010	mg/l
Lead (Pb)	ND	0.010	mg/l
Mercury (Hg)	ND	0.00020	mg/l
	ND	0.10	mg/l
Selenium (Se)	ND	0.010	mg/l
Silver (Ag)	,,_		

ppm= parts per maior; = mg/l = milligrams per Rec

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

for Even Muking

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, FIIC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1514)

6010mbw

SPARGER



Analytical Laboratory Division Mobile Laboratory Division Scientific Division

EPA Method 6010/7470 Metals, CAM 8 LCS/LCSD Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #.

9054JAN98

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

980204C

Mercury

980202A

ICP

Matrix:

Water

Dilution:

Units : (mg/i)

	Spike		LCS %	·	LCSD %	%
Element	Conc.	_LCS	Recovery	LCSD	Recovery	RSD
		,				
Arsenic (As)	0.500	0.538	108%	0.555	111%	3.1%
Barium (Ba)	0.500	0.539	108%	0.539	108%	0.00%
Cadmium (Cd)	0.200	0.211	106%	0.214	107%	1.4%
	0.500	0.518	104%	0.524	105%	1.2%
Chromium (Cr)	0,500	0.514	103%	0.520	104%	1.2%
Lead (Pb)			96.2%	0.000941	94.1%	2.2%
Mercury (Hg)	0.00100	0.000962	• • • • • • • • • • • • • • • • • • • •		110%	0.36%
Selenium (Se)	0.500	0.550	110%	0.548		
Silver (Ag)	0.0500	0.0505	101%	0.0514	103%	1.8%

ppm= parts per million = mgn = milligrams por liter

NO = Not Detected. Compound(s) may be present at concentrations belo

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)

Cam8lcw



EPA Method 6010/7470 Metals, CAM 8 **MS/MSD** Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

SPARGER

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #:

9054JAN98

Project ID:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD

LAB ID:

9042-009A

Matrix:

Water

	Sample	Spike		MS %	MSD.	MSD %	% RSD
Element	Conc.	Conc.	MS	Recovery	M3D.	Trecover)_	
Areonio (Ac)	ND	0.500	0.566	113%	0.553	111%	2.3%
Arsenic (As)	0.192	0.500	0.720	106%	0.704	102%	3.1%
Barium (Ba)	ND	0,200	0.218	109%	0.210	105%	3.7%
Cadmium (Cd)	NĎ	0.500	0.527	105%	0.506	101%	4.1%
Chromium (Cr)		0.500	0.527	103%	0.490	98.0%	4.6%
Lead (Pb)	ND		0.00104	104%	0.00103	103%	1.0%
Mercury (Hg)	ND	0.00100	• • • • • • • • • • • • • • • • • • • •	110%	0.552	110%	0.00%
Selenium (Se)	ND	0.500	0.552		0.0495	99.0%	1.0%
Silver (Ag)	ND	0.0500	0.0490	98.0%	0.0430		

ppm= parts per million = mg/l = milligram per liter

ND = Not Detected. Compound(a) may be prosent at concentrations below the detection limit

Feb 4, 1998

Units: (mg/i)

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY. INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



EPA Method 6010/7470 Metals, CAM 8

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 30, 1998

5175-B Hillsdale Circle

Date Requested:

Feb 2, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Feb 4, 1998

Invoice #:

9054JAN98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

Baker Tank Composite

LAB ID:

9054-001A

Matrix:

Water

Dilution:

1: 1

	Reporting	
Concentration	Limit	Units
ND	0.10	mg/l
	0.020	mg/l
ND	0.0050	mg/l
ND	0.010	mg/l
ND	0.010	mg/l
0.00031	0.00020	mg/l
ND	0.10	mg/l
ND	0.010	mg/l
	ND 0.059 ND ND ND 0.00031	ND 0.10 0.059 0.020 ND 0.0050 ND 0.010 ND 0.010 0.00031 0.00020 ND 0.10

ppm= perts per million # mg/l = milligrams per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit,

Abellanosa Ingranics Supervisor

Feb 4, 1998 Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

6010001



DHS TPH LUFT as Diesel Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) **TPHdiesel Analysis Report**

Attention:

Mr. Gary Smith

Bradley Environmental 5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Project #:

7379

Client ID:

LCS/LCSD

Matrix:

Water

Date Sampled:

Date Received: Date Analyzed:

Invoice #:

Feb 5, 1998 9050JAN98

East Bay Paint

Jan 29, 1998

Jan 29, 1998

Project Name:

9050-LCS 9050-LCSD

Dilution:

LAB ID:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery_
TPHdiesel	200	ND	250	280	ug/l	125%	140%	11%

ppo = parts per blillon = ug/l = micrograma per liter

pome parts per million = ugimi = micrograms per millitier

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER YECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



DHS TPH LUFT as Diesel, Motor Oil & Kerosene Analysis Report

Attention:	Mr. Gary Smith Bradley Environmental 5175-B Hillsdale Circle El Dorado Hills, CA 95762	Date Sampled: Date Received: Date Analyzed: Invoice #:	Jan 29, 1998 Jan 29, 1998 Feb 5, 1998 9050JAN98
Project #:	7379	Project Name:	East Bay Paint
Client ID:	Water 1	LAB ID:	9050-003A
Matrix:	Water	Dilution: 1:	1

		Reporting		
Name	Amount	Limit	Units	
TPHdiesel	3800°	50	ug/l	
TPHmotor oil	ND	50	ug/i	
TPHkerosene	ND	50	ug/l	

ppb = parts per biblion = ugif = micrograms per liter ppm= parts per million = ugimi = micrograms per milliliter

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit.

R. L. James, Principal Chemist

Feb 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A MAZARDOUS WASTE TESTING LABORATURY

(Certification No. 1614)

^{*} Unknown lighter fraction hydrocarbon was also present in TPHdiesel range.



EPA Method 6010 Metals, Lead (TCLP) Method Blank

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

1

Date Received: Date Requested:

Date Sampled:

Date Analyzed:

invoice #:

9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Jan 29, 1998

Jan 29, 1998

Feb 5, 1998

Mar 5, 1998

Client ID:

Method Blank

LAB ID:

MB980306B

Matrix:

Leachate

Name

Concentration

Reporting Limit

Units

Lead (Pb)

ND

0.050

mg/l

ppm= parte per millon = mg/l = milligram per litter

NO = Not Detected. Compound(s) may be present at concentrations below the detection limit.

Leginar (a Mulia

rganics Supervisor

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(CAMBOSION NO. 1814)



EPA Method 6010 Metals, Lead (TCLP) LCS / LCSD Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 29, 1998

5175-B Hillsdale Circle

Date Requested: Feb 5, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Mar 6, 1998

Invoice #:

9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

LCS/LCSD

LAB ID:

980306B

Matrix:

Leachate

Units : (ma/l)

						rinta , tingrij
}	Spike		LCS %		LCSD %	%
Element	Conc.	LCS	Recovery	LCSD	Recovery	RSD
Lead (Pb)	2.50	2.46	98.4%	2.37	94.8%	3.7%

ppm= parts por milion = mg/l = miligram per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

Mar 9, 1998

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1514)

TCLPPBLC.xis



EPA Method 6010 Metals, Lead (TCLP) MS / MSD Recoveries

Attention:

Mr. Gary Smith

Date Sampled:

Jan 29, 1998

Bradley Environmental

Date Received:

Jan 29, 1998

5175-B Hillsdate Circle

Date Requested:

Feb 5, 1998

El Dorado Hills, CA 95762

Date Analyzed:

Invoice #:

Mar 6, 1998 9184MAR98

Project #:

7379

Project Name:

East Bay Paint

Client ID:

MS/MSD

LAB ID:

9184-001A

Matrix:

Leachate

Units: (ma/l)

	· · · · · · · · · · · · · · · · · · ·						Onits. (mg/l)
	Sample	Spike		MS %		MSD %	%
Element	Conc.	Сопс.	MS	Recovery	MSD	Recovery	RSD
Lead (Pb)	2.49	2.50	4.52	81.2%	4.75	90.4%	11%

ppm= parts per million = mg/l = millionam per liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

Note: If sample concentration is higher then spike concentration, recoveries may be either high or low,

Note: If sample concentration is lower than spike concentration, recoveries may be either high or low due to matrix interference.

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. 18 CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF KEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1614)



EPA Method 6010 Metals, Lead (TCLP)

Attention:

Mr. Gary Smith

Bradley Environmental

5175-B Hillsdale Circle

El Dorado Hills, CA 95762

Project #:

7379

Client ID:

Composite

Date Sampled:

Date Received:

Date Requested:

Date Analyzed:

Invoice #:

Mar 6, 1998 9184MAR98

Jan 29, 1998

Jan 29, 1998

Feb 5, 1998

9184WAR98

Project Name:

LAB ID:

East Bay Paint

9184-001A

Matrix:

Leachate

		Reporting	
Name	Concentration	Limit	Units
Lead (Pb)	2.5	0.050	mg/l

bbw= beus ber uggou = måg = uggåsen ber gjor

NO = Not Opticized. Compound(s) may be present at concentrations below the datection limit.

L. Abellanosa, Inorganics Supervisor

Mar 9, 1998

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Cardifolion No. 1614)

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				40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HCI/HNO3/ICE	None	Other:	Water	Soit	Air	Other:	BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)/MTBE	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504/8021	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2/8260	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Potar O & G/TRPH (418.1)	Organic Lead	ACI		CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	ead		Standard	Rush Services (72hr / 48hr / 24hr / 12hr)
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PARGER TECHNOLOGY, INC. Linalytical Laboratory 250 File Circle, #112 Secramento, CA 95827	Phone: (916) 362-8947 FAX: (916) 362-0947 911. 421 525 4	CHAIN OF CUST C.O.C. No. 214 Page of	.44	STAL Invoic	e Number:	2
5175-B HILLSDALE CIA	COART	REMARKS:			Sampler's Name: Stell Mo	
Troject Name: EAST PAY PAINT Project Job#: Project Location: OALLAND Project Location: OALLAND	0'		AJI OK	None Some OK OK	WET(STLC)	
Troject Name: EAST PAY PAINT PROJECTION	7377	Cooler Temp.	<u>°C</u>	 	TCLP	
P.O.#:		Sample Condition			ICLE	
OFWAND	Preservative	рН	TCLP		Total	
Sampling Container	Used Matrix					TAT
Date Tempor bother 75.2 4.5 C. A. S. C.	HCVHNO3ACE Nane Other: Soil Air	ATEX (502/8020)503.1 ATEX/TPHgas (602/8020/8015)/MTBE TPH/liesel/TPHmotor oil/kcrosene(8015) EPA 601/8010/502.2/504/8021 EPA 602/8020 EPA 508/8080 (Posticides)/505/508	EPA 608/8080 (PCB'S) EPA 624/8240/524 2/8260 EPA 625/8270/525 Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1) Organic Lead RCI		X Standard Rush Services (72hr / 48hr / 24hr / 12hr) Holiday/Weekond Rush
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Centrum Analytical Laboratories, Inc.

CERTIFIED HAZARDOUS WASTE TESTING LABORATORY . CHEMICAL AND BIOLOGICAL ANALYSES

Client:

A.E. Schmidt Environmental

16509 Saticoy Street

Van Nuys, CA 91406

Date Sampled:

02/02/99

Date Received:

02/10/99

Job Number:

14421

Project: East Bay Mut. Stu.

CASE NARRATIVE

The following information applies to samples which were received on 02/10/99:

The samples were received at the laboratory chilled and sample containers were intact.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested.

Report approved by:

Robert R. Clark, Ph.D. Laboratory Director

ELAP # 1184

DL: Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND: Not Detected -- The compound was analyzed for but was not found to be present at or above the detection limit.

NA: Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



Lead By ICP

Client: A.E. Schmidt Environmental

Project: East Bay Mut. Stu.
Job No.: 14421
Matrix: Water
Analyst: RVJ

Date Sampled: 02/02/99
Date Received: 02/10/99
Date Digested: 02/11/99
Date Analyzed: 02/11/99
Batch Number: 6010W1140

Method Number: 6010

	Detection Limit	Lead
Sample ID	mg/L	mg/L
Method Blank	0.10	ND
EB-1	0.10	1.2
EB-2	0.10	ND

QC Sample Report - Metals

Matrix: Water

Batch #: 6010W1140

Batch Accuracy Results

Spike Concentration mg/L Acceptance Limits Recovery Pass/Fail	Lead	Spik 0. mg/l	102.5	75 - 125	Pass
		ike Concentration g/L	ecovery L	ceptance Recovery	iss/Fail

Analytical Notes:					

Batch Precision Results

MS/MSD Sample ID: 11409-1

Compound	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lead	0.987	0.984	0%	20%	Pass

Analytica	ıl Notes:	
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MS: Matrix Spike Sample MSD: Matrix Spike Duplicate



A.E. SCHMAN A ENVIKONMEN AAL

VAN NUYS, CALIFORNIA 91406 (818)-786-2373

14421 DATE: 2-2-99 PAGE: 1 of

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Centrum Analytical Laboratories, Inc.

CERTIFIED HAZARDOUS WASTE TESTING LABORATORY . CHEMICAL AND BIOLOGICAL ANALYSES

Client:

A.E. Schmidt Environmental

16509 Saticoy Street

Van Nuys, CA 91406

Date Sampled:

02/02/99

Date Received:

02/03/99

Job Number:

14384

Project: East Bay-Subsurface Assessment

CASE NARRATIVE

The following information applies to samples which were received on 02/03/99:

The samples were received at the laboratory chilled and sample containers were intact.

This report is a re-issue and contains data not included in the original version. The results reported previously have not been changed. The date of re-issue is 03/17/99.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested.

Report approved by:

Robert R. Clark, Ph.D. Laboratory Director

ELAP # 1184

DL: Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND: Not Detected -- The compound was analyzed for but was not found to be present at or above the detection limit.

NA: Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



Modified 8015 - Total Extractable Petroleum Hydrocarbons as Diesel

Client: A.E. Schmidt Environmental
Project: East Bay-Subsurface Assessment

Job No.: 14384 Matrix: Water Analyst: NBP Date Sampled: 02/02/99
Date Received: 02/03/99
Date Extracted: 02/07/99
Date Analyzed: 02/07/99
Batch Number: 8015DW1546

	Detection Limit	Diesel	Surrogate (OTP)
Sample ID	mg/L	mg/L	Limit: 50 - 150%
Method Blank	0.40	ND	100 %
EB-1	0.40	ND	82 %
EB-2	0.40	ND	53 %
EB-3	0.40	ND	91 %
EB-4	0.40	ND	89 %
EB-5	0.40	ND	93 %
EB-6	0.40	ND	94 %

QC Sample Report - EPA 8015M Diesel

Matrix: Water

Batch #: 8015DW1546

Batch Accuracy Results

Analytical Notes:					
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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Diesel	0.73	0.73	0%	25%	Pass

Analytical Notes:						

MS: Matrix Spike Sample
MSD: Matrix Spike Duplicate



Modified 8015 - Total Volatile Hydrocarbons as Gasoline

Client: A.E. Schmidt Environmental

Project: East Bay-Subsurface Assessment

Job No.: 14384 Matrix: Water Analyst: GR Date Sampled:

02/02/99

Date Received:

02/03/99

Date Analyzed: Batch Number: 02/04-05/99

8015GW2080 8015GW2081

	Detection Limit	Petroleum Hydrocarbons as Gasoline
Sample ID	mg/L	mg/L
Method Blank	0,5	ND
EB-1	0.5	ND
EB-2	0.5	ND
EB-3	0.5	ND
EB-4	0.5	ND
EB-5	0.5	ND
EB-6	0.5	ND

QC Sample Report - EPA 8015M Gasoline

Matrix: Water

Batch #: 8015GW2080

Batch Accuracy Results

Sample IU	: Laboratory	Control	Sample

Analyte	Spike Concentration mg/L	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Gasoline	10.0	98	70 - 130	Pass

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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Gasoline	9.76	8.92	9%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample MSD: Matrix Spike Duplicate



QC Sample Report - EPA 8015M Gasoline

Matrix: Water

Batch #: 8015GW2081

Batch Accuracy Results

Analytical Notes:						
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Batch Precision Results

Analytical	Notes:	
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MS: Matrix Spike Sample MSD: Matrix Spike Duplicate



EPA 8020 - BTEX and MtBE

Client:

A.E. Schmidt Environmental

Project:

East Bay-Subsurface Assessm

Job No.: Matrix: Analyst:

Water

14384

GR

Date Sampled: 02/02/99

Date Received: 02/03/99

Date Analyzed: 02/04-05/99

Batch Number: 8020W2080

8020W2081

	Methyl-tert			Ethyl	Total	
	butyl ether	Benzene	Toluene	Benzene	Xylenes	Surrogate (BFB)
Detection Limit:	0.001	0.0006	0.001	0.001	0.003	Limit: >50%
Sample ID	mg/L	mg/L	mg/L	mg/L	mg/L	
Method Blank	ND	ND	ND	ND	ND	92 %
EB-1	0.047	ND	ND	ND	ND	93 %
EB-2	ND	ND	ND	ND	ND	97 %
EB-3	ND	ND	ND	ND	ND	93 %
EB-4	0,011	ND	ND	ND	ND	94 %
EB-5	0.011	ND	ND	ND	ND	94 %
EB-6	0.021	ND	ND	ND	ND	88 %

QC Sample Report - EPA 8020

Centrum
(800) 798-9336

Matrix: Water

Batch #: 8015GW2080

Batch Accuracy Results

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/L	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Methyl-tert-butyl ether	0.10	96	70 - 130	Pass
Benzene	0.10	103	70 - 130	Pass
Toluene	.0.10	101	70 - 130	Pass
Ethyl Benzene	0.10	97	70 - 130	Pass
m-, p-Xylene	0.20	104	70 - 130	Pass
o-Xylene	0.10	106	70 - 130	Pass

Analytical Notes:
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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Methyl-tert-butyl ether	0.096	0.086	11%	25%	Pass
Benzene	0.103	0.099	4%	25%	Pass
Toluene	0.101	0.096	5%	25%	Pass
Ethyl Benzene	0.097	0.092	5%	25%	Pass
m-, p-Xylene	0.208	0.196	6%	25%	Pass
o-Xylene	0.106	0.102	4%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample
MSD: Matrix Spike Duplicate

QC Sample Report - EPA 8020



Matrix: Water

Batch #: 8015GW2081

Batch Accuracy Results

Sample ID: Laboratory Control Sample

Cample ID. Laboratory Com	1			
Analyte	Spike Concentration mg/L	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fall
Methyl-tert-butyl ether	0.10	99	70 - 130	Pass
Benzene	0.10	110	70 - 130	Pass
Toluene	0.10	110	70 - 130	Pass
Ethyl Benzene	0.10	101	70 - 130	Pass
m-, p-Xylene	0.20	111	70 - 130	Pass
o-Xylene	0.10	111	70 - 130	Pass

Analytical Notes:	
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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

			_		
Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Methyl-tert-butyl ether	0.099	0.088	13%	25%	Pass
Benzene	0.110	0.095	15%	25%	Pass
Toluene	0.110	0.096	14%	25%	Pass
Ethyl Benzene	0.101	0.087	15%	25%	Pass
m-, p-Xylene	0.223	0.187	18%	25%	Pass
o-Xylene	0.111	0.095	15%	25%	Pass

Analytical	Notes:

MS: Matrix Spike Sample MSD: Matrix Spike Duplicate



MtBE by EPA 8260

Client:

A.E. Schmidt Environmental

Project:

East Bay-Subsurface Assessment

Job No.:

14384

Matrix: Analyst: Water **JMR**

Date Sampled:

02/02/99

Date Received:

02/03/99

Date Analyzed:

03/05/99

Batch Number:

M28260W479

μg/L	μg/L	μ g /L	μg/L	μ g/L	
ND	5 1	11	9.1	16	
	ND	ND 51	ND 51 11	ND 51 11 9.1	ND 51 11 9.1 16

Surrogates (% recovery) Limits: 80 - 130

Sample (D): Blank	EB-1	EB-4	EB-5	EB-6	
Dibromofluoromethane	102	100	101	107	105	
Toluene-d8	89	91	91	91	93	
Bromofluorobenzene	93	94	93	96	93	

QC Sample Report - EPA Method 8260

Matrix: Water

Batch #: M28260W479

Batch Accuracy Results

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration µg/L	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
1,1-Dichloroethene	20.0	88	59 - 172	Pass
Benzene	20.0	93	66 - 142	Pass
Trichloroethene	20.0	93	71 - 137	Pass
Toluene	20.0	83	59 - 139	Pass
Chlorobenzene	20.0	88	60 - 133	Pass

Analytical Notes:								
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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery µg/L	Spike Duplicate Recovery µg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
1,1-Dichloroethene	17.6	16.6	6%	22%	Pass
Benzene	18.7	16.0	15%	21%	Pass
Trichloroethene	18.5	16.4	12%	24%	Pass
Toluene	16.7	15.2	10%	21%	Pass
Chlorobenzene	18.5	15.8	16%	21%	Pass

MS: Matrix Spike Sample	
MSD: Matrix Spike Duplicate	

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A BOREO K) CHARLES - L. L. T. P. BARCEL SARAGE CALLED VAN NUYS, CALIFORNIA 91406

14384 DATE: 2-2-99 PAGE: 1 of 1

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APPENDIX D

Geotechnical Report



1969 - 1999 30 YEARS OF MEETING YOUR REQUIREMENTS

May 17, 1999 1460-2

Mountain View

Oakland

Pasadena

Mr. Don Indermill

A. E. SCHMIDT ENVIRONMENTAL

16509 Saticoy Street

Van Nuys, California 91406

FOUNDATION INVESTIGATION CALTRANS FACILITY - OAKLAND OAKLAND, CALIFORNIA

San Ramon

Dear Mr. Indermill:

In this letter we present the results of our foundation investigation for the above referenced project to be located in Oakland, California, as shown on the Vicinity Map, Figure 1. Our scope of services was presented in detail in our agreement with you dated April 16, 1999. The purpose of our services was to provide foundation recommendations for design of the proposed above-ground storage tank. In addition, we are summarizing our findings and comments regarding the former tank excavation backfill located at the site.

RE:

PROJECT DESCRIPTION

We understand that the project is to consist of the construction of a new Portland Cement reinforced concrete pad for the proposed above-ground storage tank. The new tank will have a 6,000 gallon storage capacity with 3,000 gallons each for gasoline and diesel fuel respectively. Based on plans provided to us, the new pad will be approximately 21 feet by 30 feet in plan. An existing 9-inch concrete slab was located in the proposed above-ground storage tank location. Based on our conversation with you, we understand that the existing slab will be demolished prior to constructing the new tank pad. The new pad will be raised 6 inches relative to the adjacent grade. A new Portland cement concrete (PCC) approach apron also is planned south of the proposed tank pad.

Based on information provided to us by you, mat pressures on the order of 1,500 pounds per square-foot can be expected. Only minor grading will be required for the relatively level site.

SITE CONDITIONS

EXPLORATION PROGRAM: Subsurface exploration was performed on April 27, 1999, using conventional, truck-mounted drilling equipment to investigate, sample, and log the subsurface soils. Three exploratory borings were drilled to a maximum depth of 25 feet. As requested by you, two of our borings were located in the former underground storage tank (UST) location and one near the existing concrete slab for the proposed aboveground storage tank location. The approximate locations of the borings are shown on the Site Plan, Figure 2. The logs of our borings and details regarding our field investigation

are included in Appendix A; the results of our laboratory tests are discussed in Appendix B.

SURFACE: The site is located south of Highway 80 and west of Maritime Street in Oakland, California. At the time of our field exploration, the area of proposed construction was located in an existing CALTRANS maintenance facility and storage yard. As mentioned above, an existing concrete slab currently occupied the location for the proposed above-ground storage tank. Aggregate baserock covered the former tank excavation located north of the existing gas shack. An office and maintenance building is located east of the proposed tank area. Asphaltic concrete pavement parking and storage areas covered the remainder of the site.

Subsurface: Our Borings EB-1 and EB-2, drilled in the former UST location, encountered very loose to medium dense gravelly fill to depths ranging from 9½ to 13 feet below existing ground surface. Below the fill, EB-1 generally encountered medium dense sand to at least 16½ feet, the maximum depth for this boring. Below the fill, EB-2 encountered approximately 6 feet of soft organic silty clay to a depth of 15½ feet, which was underlain by loose to medium dense clayey sand to at least 20 feet, the maximum depth for this boring. Boring EB-3, drilled adjacent to the existing concrete slab, encountered medium dense clayey sand fill to approximately 8 feet below existing ground surface. The surficial fill was generally underlain by soft organic silty clay to a depth of approximately 13¾ feet, which was underlain by loose clayey sand to a depth of approximately 22 feet. The sand was underlain by medium stiff silty clay to a depth of 25 feet, the maximum depth explored. Ground water was encountered in all our borings at depths ranging from 2½ to 6 feet at the time of drilling. Fluctuation in the level of the ground water may occur due to variations in rainfall and other factors not in evidence at the time measurements were made.

CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical engineering viewpoint, the proposed above-ground storage tank pad and approach apron extension may be constructed as planned provided the design is performed in accordance with the recommendations presented in this letter.

The primary geotechnical concern at the site is the potential for significant differential settlement as a result of liquefaction-induced settlement and consolidation settlement of the underlying soft compressible organic clay. Of a secondary concern is the approximately 8 feet of non-engineered fill encountered in the vicinity of the proposed above-ground storage tank location. To reduce the potential for damage to the proposed tank pad due to future settlement, we recommend that the upper 3 feet of undocumented fill be removed and replaced as engineered fill. In addition, the tank pad should be designed to tolerate the anticipated differential settlement due to weight of the new tanks and possible liquefaction-induced settlement.

Because subsurface conditions may vary considerably from those predicted by relatively small diameter borings, and in order to check that our recommendations have been properly implemented, we recommend that we be retained to 1) review the final

construction plans and specifications, and 2) observe the earthwork and foundation installation.

EARTHWORK

CLEARING AND SITE PREPARATION: Areas of new construction should be cleared of all surface and subsurface deleterious materials including existing slabs, buried utility and irrigation lines, pavements, and associated debris. Excavations extending below the planned finished site grades should be cleaned and backfilled with suitable material compacted to the recommendations presented in the "Compaction" section. We recommend that the backfilling be carried out under our observation.

After clearing, any vegetated areas should be stripped to sufficient depth to remove all surface vegetation and topsoil containing greater than 3 percent organic matter by weight. At the time of our field investigation, the proposed tank pad location was occupied by the existing concrete slab and asphaltic concrete pavement. The actual stripping depth required depends on site usage prior to construction and should be established in the field by us at the time of construction. The stripped materials should be removed from the site or may be stockpiled for use in landscaped areas, if desired.

REMOVAL OF EXISTING FILL: The upper 3 feet of fill encountered in areas of new construction should be removed and replaced as engineered fill. We further recommend that the excavation extend laterally a minimum of 5 feet beyond the tank pad footprint. Provided the fill material meets the requirements in the "Material for Fill" section below, it may be reused as engineered fill. All fill should be compacted in accordance with the recommendations for fill presented in the "Compaction" section.

SUBGRADE PREPARATION: After the site has been properly cleared, stripped, and necessary excavations have been made, the exposed surface soils in those areas to receive fill, should be scarified to a depth of 6 inches, moisture conditioned, and compacted in accordance with the recommendations for fill presented in the "Compaction" section. The finished compacted subgrade should be firm and non-yielding under the weight of compaction equipment.

MATERIAL FOR FILL: All on-site soils below the stripped layer having an organic content of less than 3 percent by weight are suitable for use as fill at the site. In general, fill material should not contain rocks or lumps larger than 6 inches in greatest dimension, with no more than 15 percent larger than 2½ inches. Imported fill material should be predominantly granular with a Plasticity Index of 15 or less.

COMPACTION: All fill, as well as scarified surface soils in those areas to receive fill or slabs-on-grade, should be compacted to at least 90 percent relative compaction as determined by ASTM Test Designation D-1557, latest edition, at a moisture content near the laboratory optimum. Fill should be placed in lifts no greater than 8 inches in uncompacted thickness. Each successive lift should be firm and non-yielding under the weight of the construction equipment.

FOUNDATIONS

REINFORCED MAT FOUNDATIONS: The proposed storage tank pad may be supported on a conventionally reinforced mat foundation. Due to the potential for significant differential settlement, we recommend that the mat be design to span an unsupported distance of at least 10 feet and to cantilever at the perimeter edge at least 4 feet. The mat should be designed with a thickened edge at least 12 inches wide and 12 inches thick. The thickened edge should be considered from top to bottom of mat.

The mat may be designed for an average allowable bearing pressure of 500 pounds per square-foot (psf) for dead plus live loads, with maximum localized bearing pressures of 2,000 psf at point loads. Allowable bearing pressures may be increased by one-third for all loads including wind or seismic. These allowable bearing pressures are net values; the weight of the mat can be neglected for design purposes.

The mat should be reinforced with top and bottom steel, as appropriate, to provide structural continuity and to permit spanning of local irregularities. These recommendations may be subject to revision depending on the particular design method selected by the structural engineer. It is essential that we observe the mat foundation pad prior to placement of reinforcing steel.

We estimate that total post-construction settlement should be less than 1 to 1½ inches, and that post-construction differential movement should be less than ½ to ¾ inch across the proposed mat. If foundations designed in accordance with the above recommendations are not capable of resisting ½ inch of differential movement from the center to the corner of the tank pad, additional reinforcement may be required.

PORTLAND CEMENT CONCRETE PAVEMENTS

Recommendations for Portland Cement Concrete (PCC) pavements are presented below in Table 1. Since the expected Average Daily Truck Traffic (ADTT) is not known at this time, we have provided alternatives for minimum pavement thickness. An allowable ADTT should be chosen that is greater than expected for the development.

Allowable Minimum PCC
Slab Thickness (inches)

4 5
57 5½
480 6

TABLE 1 RECOMMENDED MINIMUM PCC SLAB THICKNESS

Our design is based on an R-value of 15 and a 28-day unconfined compressive strength for concrete of at least 3,500 pounds per square inch. In addition, our design assumes that pavements are underlain by at least 6 inches of Class 2 aggregate base. We

recommend that adequate construction and control joints be used in design of the Portland Cement concrete pavements to control the cracking inherent in this construction

FORMER UNDERGROUND STORAGE TANK BACKFILL

FORMER TANK EXCAVATION BACKFILL: We performed two borings within the tank excavation backfill located on site, as shown on Figure 2. Based on our conversation with you, compaction test records are reportedly unavailable for the fill. Based on plans provided to us and field observations, the area of backfill was approximately 30-feet-wide by 35-feet-long. As discussed in the "Subsurface" section previously, backfill materials generally consisted of clayey and sandy gravel ranging in depths from 9½ to 13 feet. Based on exploratory borings performed at the site, blow counts ranged from 4 to 30 blows per foot (bpf) using the Standard Penetration Test (SPT) sampler. Below a depth of 4 feet, SPT values ranged from 4 to 7 bpf, indicating very loose to loose conditions. The blows per foot represent the accumulated number of blows required to drive the last 12 inches. In accordance with the Unified Soil Classification System (ASTM D-2487), the relative density of the tank backfill can be generally described as medium dense from approximately 0 to 4 feet, and very loose to loose below a depth of approximately 4 feet. If further information is required for the existing backfill material, we recommend additional field and laboratory testing be performed.

CLOSURE

This letter was prepared for the sole use of A. E. Schmidt Environmental for application to the design of the above-ground storage tank mat foundation and approach apron in accordance with generally accepted geotechnical engineering practices at this time and location. No warranty is expressed or implied.

We hope this provides the information you need at this time. If you have any questions, please call and we will be glad to discuss them with you.

Very truly yours,

LOWNEY ASSOCIATES

Danh T. Tran

Senior Staff Engineer

John R. Dye, P.E.

Senior Project Engineer

JRD:DT:jcm

Attachments: Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A - Field Investigation

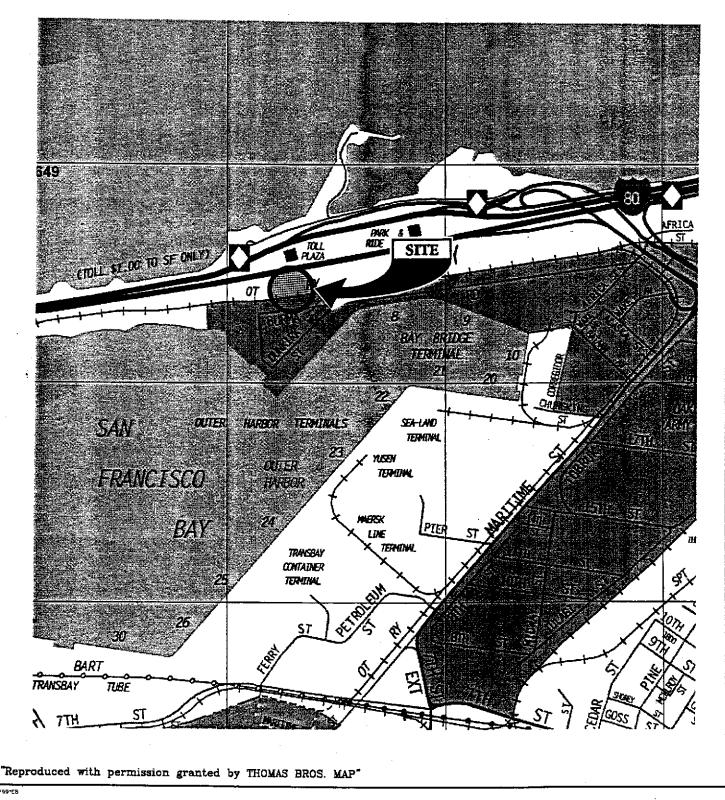
Appendix B - Laboratory Investigation

Copies: Addressee (2)

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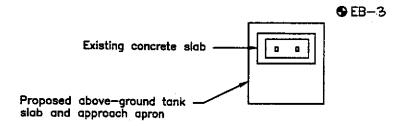
VICINITY MAP

CALTRANS FACILITY-OAKLAND
Oakland, California

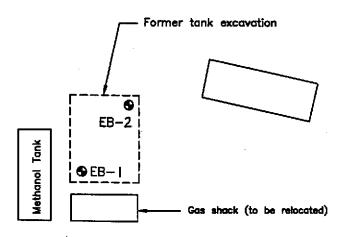
LOVNEYASSOCIATES Environmental/Geotechnical/Engineering Services



EASTBOUND INTERSTATE 80



Maintenance Building



BURMA ROAD

LEGEND

Approximate location of exploratory boring

Not To Scale

Base by Caltrans.

SITE PLAN

CALTRANS FACILITY-OAKLAND
Oakland, California

LOVNEYASSOCIATES
Environmental/Geotechnical/Engineering Services

APPENDIX A FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using a truck-mounted hollow-stem auger. Three 8-inch-diameter exploratory borings were drilled on April 27, 1999, to a maximum depth of 20 feet. The approximate locations of the exploratory borings are shown on the Site Plan, Figure 2. The soils encountered were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D-2488). The logs of the borings, as well as a key to the classification of the soil, are included as part of this appendix.

The locations of the borings were approximately determined by pacing from existing site boundaries. The elevation of the boring was not determined. The location of the boring should be considered accurate only to the degree implied by the method used.

Representative soil samples were obtained from the boring at selected depths. All samples were returned to our laboratory for evaluation and appropriate testing. The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D-1586). In addition, 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows required to drive the last 12 inches. The various samplers are denoted at the appropriate depth on the boring log and symbolized as shown on Figure A-1.

Field tests included an evaluation of the undrained shear strength of soil samples using a Torvane device, and/or the unconfined compressive strength of the soil samples using a pocket penetrometer device. The results of these tests are presented on the individual boring log at the appropriate sample depth.

The attached boring log and related information depict subsurface conditions only at the location indicated and at the particular date designated on the log. Subsurface conditions at other locations may differ from conditions occurring at this boring location. The passage of time may result in altered subsurface conditions due to environmental changes. In addition, any stratification lines on the log represent the approximate boundary between soil types and the transition may be gradual.

	PR	RIMARY DIVISION	s	SOIL TYPE		SECONDARY DIVISIONS
	25.475.5	CLEAN GRAVELS	GW		Well graded gravels, gravel—sand mixtures, little or no fines	
SOILS	SO STATE	GRAVELS MORE THAN HALF OF COARSE FRACTION	(Less than 5% Fines)	GP	, Q.	Poorly graded gravels or gravel-sand mixtures, little or no fines
	NO. 20	IS LARGER THAN NO. 4 SIEVE	GRAVEL WITH	GM	300	Silty gravels, gravel—sand—silt mixtures, plastic fines
GRAINED	Than half of Material Larger Than No. 200 Sieve Size		FINES	GC	**	Clayey gravels, gravel—sand—clay mixtures, plastic fines
	AN H	CANDO	CLEAN SANDS	SW		Well graded sands, gravelly sands, little or no fines
COARSE	MORE TO	SANDS MORE THAN HALF	(Less than 5% Fines)	SP		Poorly graded sands or gravelly sands, little or no fines
8	O S OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	SANDS WITH FINES	SM		Sifty sands, sand-silt-mixtures, non-plastic fines	
			sc	11	Clayey sands, sand-clay mixtures, plastic fines	
l s	್ರ ಕೃ		ML	IIII	Inorganic silts and very fine sands, rack flour, silty or clayey fine sands or clayey silts with slight plasticity	
SOILS	MATE NO. 20	SILTS AND Liquid limit is less		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	ALF OF THAN			OL		Organic silts and organic silty clays of low plasticity
\(\overline{\gamma}\)	NE GRAINED SOILS RE THAN HALF OF MATERIAL S SMALLER THAN NO. 200 SIEVE SIZE			МН	Ш	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
FINE		SILTS AND CLAYS UQUID UMIT IS GREATER THAN 50 X		СН		Inorganic clays of high plasticity, fat clays
	MON Si			OH		Organic clays of medium to high plasticity, organic silts
	HIGH	ILY ORGANIC SOI	LS	PT	7 47	Peat and other highly organic soils

DEFINITION OF TERMS

		U.S.	STANDARD SIEVE	SIZE	CLEAR	SQUARE S	SIEVE OPEN	INGS
_	2	200	40	10	4 3/	4"	3" 1	2"
SILTS AND CLAY			SAND		GRA	WEL	CORRIES	BOULDERS
	SICIS AND COM	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLES	BOOLDERS

GRAIN SIZES







SHELBY TUBE

K	NO	RECOVERY

SAMPLERS

SAND AND GRAVEL	BLOWS/FOOT*
VERY LOOSE	0-4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	OVER 50

SILTS AND CLAYS	STRENGTH+	BLOWS/FOOT*
VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF HARD	0-1/4 1/4-1/2 1/2-1 1-2 2-4 OVER 4	0-2 2-4 4-8 8-16 16-32 OVER 32

RELATIVE DENSITY

CONSISTENCY

*Number of blows of 140 pound hammer falling 30 inches to drive a 2-inch 0.D. (1-3/8 inch 1.D.) split spoon (ASTM 0-1586). +Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM 0-1586), pocket penetrometer, torvane, or visual abservation.

KEY TO EXPLORATORY BORING LOGS Unified Soil Classification System (ASTM D-2487)



EXPLORATORY BORING: EB-1 Sheet 1 of 1 PROJECT NO: 1460-2 DRILL RIG: MOBILE B-40 BORING TYPE: 8" HOLLOW STEM PROJECT: CALTRANS FACILITY LOGGED BY: DGB LOCATION: OAKLAND **START DATE: 4-27-99** FINISH DATE: 4-27-99 COMPLETION DEPTH: 16.5 FT. This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual. Undrained Shear Strength PERCENT PASSING NO. 200 SIEVE DRY DENSITY (PCF) O Pocket Penetrometer PENETRATION RESISTANCE (BLOWS/FT.) SOIL LEGEND ELEVATION (FT) SOIL TYPE OEPTH (FT) △ Torvæne Unconfined Compression MATERIAL DESCRIPTION AND REMARKS U-U Triaxial Compression SURFACE ELEVATION: CLAYEY GRAVEL (GC) [FILL] GC medium dense, moist, dark brown, fine to coarse gravel, fine to coarse sand, day 22 10 SANDY GRAVEL (GP) [FILL] medium dense, wet, brown, fine to coarse sand, fine to medium gravel, trace clay 13 10 8 GP loose 25 7. clay layer at 9.5 feet GP SAND (SP) medium dense, wet, gray, fine sand, trace shells 22 21 SP 17 30 1 inch clay lense Bottom of Boring @ 16.5 feet. 20 25 **GROUND WATER OBSERVATIONS:**

▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 2.5 FEET

EXPLORATORY BORING: EB-2 Sheet 1 of 1 DRILL RIG: MOBILE B-40 PROJECT NO: 1460-2 BORING TYPE: 8" HOLLOW STEM PROJECT: CALTRANS FACILITY LOGGED BY: DGB LOCATION: OAKLAND **START DATE: 4-27-99** FINISH DATE: 4-27-99 COMPLETION DEPTH: 20.0 FT. This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual. Undrained Shear Strength (lest) PERCENT PASSING NO. 200 SIEVE MOISTURE CONTENT (%) DRY DENSITY (PCF) LEGEND PENETRATION RESISTANCE (BLOWS/FT.) Pocket Penetrometer ELEVATION (FT) TYPE SAMPLER DEPTH (FT) ⚠ Torvene 줐 Unconfined Compression MATERIAL DESCRIPTION AND REMARKS U-U Triexial Compression SURFACE ELEVATION: CLAYEY GRAVEL (GC) [FILL] GÇ SANDY GRAVEL (GP) [FILL] medium dense, wet, dark brown, fine to coarse sand, 30 12 fine to medium gravel 19 7 ĢΡ 7 . 22 loose 5P SAND lense G 66 ORGANIC SILTY CLAY (OH) soft, wet, bluish gray, high plasticity QH 1 40 intrebedded sand lenses with shells from 13.5 to 15 feet CLAYEY SAND (SP-SC) loose, wet, gray, fine sand, shells 8 25 11 SP-SC medium dense 24 20 20 Bottom of Boring @ 20 feet. 25 30-**GROUND WATER OBSERVATIONS:**

▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 2.5 FEET

5/12/99 MOUNTAIN VIEW" DGB

CORP. GDT

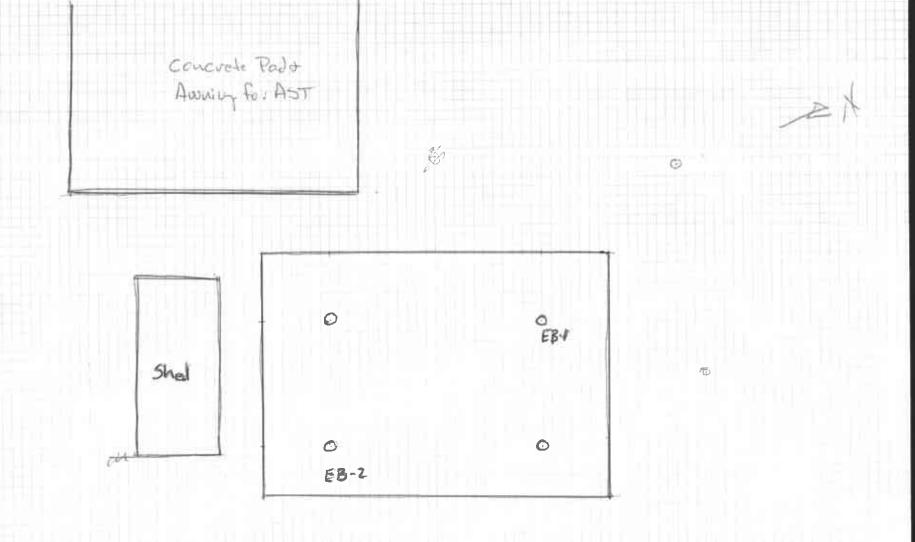
EXPLORATORY BORING: EB-3 Sheet 1 of 1 DRILL RIG: MOBILE B-40 PROJECT NO: 1460-2 BORING TYPE: 8" HOLLOW STEM PROJECT: CALTRANS FACILITY LOGGED BY: DGB LOCATION: OAKLAND START DATE: 4-27-99 FINISH DATE: 4-27-99 COMPLETION DEPTH: 25.0 FT. This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual. Undrained Shear Strength PERCENT PASSING NO. 200 SIEVE PENETRATION RESISTANCE (BLOWS/FT.) MOISTURE CONTENT (%) DRY DENSITY (PCF) O Pocket Penetrometer ELEVATION (FT) SAMPLER DEPTH (FT) ∧ Torvane SOIL 1 Unconfined Compression MATERIAL DESCRIPTION AND REMARKS U-U Triaxial Compression SURFACE ELEVATION: 3.0 CLAYEY SAND (SC) [FILL] medium dense, moist, brown, fine to coarse gravel, fine to coarse sand, clay 28 5 41 22 SC 12 10 ORGANIC SILTY CLAY (OH) soft, wet, bluish gray, fine sand, shells, interbedded 7 sand lenses 3 OH CLAYEY SAND (SP-SC) 7 28 loose, wet, gray, fine sand, shells 15 SP-SC 7 23 9 SILTY CLAY (CL) medium stiff, wet, dark gray, moderate plasticity, numerous shells CL 20 39 CORP GDT 5/12/99 MOUNTAIN VIEW" DGB Bottom of Boring @ 25 feet. 30 **GROUND WATER OBSERVATIONS:** Y: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 6.0 FEET

APPENDIX B LABORATORY INVESTIGATION

The laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site and to aid in verifying soil classification.

Moisture Content: The natural water content was determined (ASTM D-2216) on all samples of the materials recovered from the borings. These water contents are recorded on the boring log at the appropriate sample depths.

Washed Sieve Analyses: The percent soil fraction passing the No. 200 sieve (ASTM D1140) was determined on 5 samples of the subsurface soils to aid in the classification of these soils. Results of these tests are shown on the boring logs at the appropriate sample depths.



4 sangle localions in pit 2 outsile to north or northeast 2-2-49

Test For Total Hydroca, being 8006
OS GOS & Dienel 80050
BFEX, MABE 8000
Don Invernill A.E. Schmidt Environmental



Lead By ICP

Client: A.E. Schmidt Environmental

Project: East Bay Mut. Stu.

Job No.: 14421 Matrix: Water Analyst: RVJ Date Sampled: 02/02/99
Date Received: 02/10/99
Date Digested: 02/11/99
Date Analyzed: 02/11/99
Batch Number: 6010W1140

Method Number: 6010

- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Detection Limit	Lead
Sample ID	mg/L	mg/L
Method Blank	0.10	ND
EB-1	0.10	1.2
EB-2	0.10	ND
	14 (A)	
	5 10	
		7
7 4		\$ 1.00 to 1.00
What Plan I complete		