TANK REMOVAL REPORT

UNIVERSITY OF CALIFORNIA, BERKELEY GILL TRACT RESEARCH FACILITY ALBANY, CALIFORNIA

Prepared for:

Ms. Hari Krashna Project Manager University of California, Berkeley Planning, Design, and Construction 2000 Carleton Street Berkeley, California 94720-1380

Prepared by:

IT Corporation 4584 Pacheco Boulevard Martinez, California 94553

IT Project No. 772569

October 1997

UNIVERSITY OF CALIFORNIA, BERKELEY

BERKELEY · DAVIS · IRVINE · LOS ANGELES · RIVERSIDE · SAN DIEGO · SAN FRANCISCO



SANTA BARBARA · SANTA CRUZ

OFFICE OF ENVIRONMENT, HEALTH AND SAFETY UNIVERSITY HALL, 3rd FLOOR

BERKELEY, CALIFORNIA 94720

November 5, 1997

Gordon Coleman Environmental Health Services Alameda County Health Care Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE:

Underground Storage Tank Removal Report for Gill Tract, UC Berkeley References: 1) Chu—Spencer, 9/3/97 2) Spencer—Coleman 9/15/97

Dear Mr. Coleman:

Enclosed is the report entitled "University of California, Berkeley, Gill Tract Research Facility, Albany, California," prepared by International Technology Corporation under contract with the University. This report documents the August 15, 1997 removal of two underground fuel storage tanks at the Gill Tract and the subsequent soil and water sampling which was completed on August 20, 1997. Ms. Eva Chu of your office inspected the removal and sampling activities. Contaminated soil and storm runoff water were removed from the site and sent for offsite disposal as documented in the report. An unauthorized release report was sent to your office on September 3, 1997 (Reference 1).

We received your Notice of Responsibility dated September 15, 1997 (Reference 2) placing the site in the Local Oversight Program. Please note that the parties responsible for investigation and cleanup of the site are the Regents of the University of California and the University of California, Berkeley, College of Natural Resources; consequently, please change the name of the Responsible Party to the Regents of the University of California. In my capacity as Director of the Office of Environment, Health & Safety, I assist the campus (and therefore, the Regents) in their compliance with applicable requirements. For this site, I will work with Gordon Rausser, Dean of the College of Natural Resources, and your representative, Pam Evans, to ensure that proper corrective action is completed.

If you need further information, please contact Karl Hans (643-9574) or Anna Moore (643-9518).

Sincerely,

Susan L. Spencer

Director

SLS:tn Enclosure

cc:

Pam Evans, Alameda County Environmental Health Services Eva Chu, Inspector, Alameda County Environmental Health Services Steve Schwartz, IT Corporation

Ron Kiriaze, Associate Director, Utilities & Central Services, Physical Plant-Campus Services Horace Mitchell, Ph.D., Vice Chancellor—Business and Administrative Services Gordon Rausser, Dean, College of Natural Resources

Karl Hans, EH&S Anna Moore, EH&S

11/5/97

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1.0 introduction

IT Corporation (IT) has prepared this report documenting the action steps taken to clean, remove and dispose of one, 500-gallon diesel underground storage tank (UST) and one, 500-gallon gasoline UST from the University of California, Berkeley (UC Berkeley), Gill Tract Research Facility, Albany, California (Figures 1). Supporting data and field activities involved with the tank removal procedures at this site are detailed in this document.

This report also documents the soil and ground water sampling activities completed at the project site to determine the extent of residual hydrocarbons present in the stockpiled soils and the floor and sidewalls of the UST excavations.

1.1 Site Background and History

The Gill Tract Research facility (the site) is located adjacent to the southwest corner of the intersection of Marin and San Pablo Avenue in Albany, California. The tanks were located directly east and adjacent to the Maintenance Building (Figure 2). During conversations with UC Berkeley personnel, it is unclear as to exactly when the USTs were installed on site. However, on-site staff postulated that the tanks were probably installed during the mid 1940's or early 1950's.

1.2 Permits

The permit required to remove the UST from the project site was procured on 4 August 1997 (APPENDIX A). The permit was issued by Ms. Eva Chu, a Hazmat Specialist with the Alameda County Health Agency, Division of Environmental Protection, Department of Environmental Health.

The UC Berkeley Fire Marshal (Fire Prevention Division) and City of Albany Fire Department were notified of the tank removal activities. A representative from each department was present during the actual removal process. No official permit was issued.

1.3 Scope of Work

The following scope of work was completed from 1 August through 15 September 1997:

1) Permits were obtained from the County of Alameda.

- 2) A site specific Work Plan and Health & Safety Plan was prepared to document all work procedures, proposed laboratory analysis, emergency procedures, and health and safety protocol.
- 3) All on-site utilities were located and marked by Subtronics, Inc. a licensed underground utility locator from Concord, California.
- 4) The tank piping and associated pumps were disconnected.
- 5) A total of 100 gallons of residual product and tank rinsate was pumped into two 55-gallon drums. The drums were transported under California Uniform Hazardous Waste #96833643 to Rollins, a State permitted facility in Los Angeles, California for disposal.
- 6) The tanks were unearthed, rendered inert and transported under a Uniform Hazardous Waste Manifest to Erickson Inc., a State Certified disposal/recycle facility in Richmond, California.
- 7) Confirmatory soil samples were obtained for laboratory analysis from the floor of the diesel tank excavation and the associated stockpile.
- 8) Confirmatory soil samples were obtained for laboratory analysis from the floor and side walls of the gasoline tank excavation and the associated stockpile.
- 9) A ground water sample was obtained from the floor of the gasoline UST pit and submitted for laboratory analysis.
- 10) Excavation soils were stockpiled and protected with visqueen pending receipt of the results of the confirmation sampling.
- 11) Tank piping was cut and capped at the excavation limit.
- 12) Following receipt of the laboratory analytical data, all of the excavated soils associated with the diesel tank were placed back in to the tank pit. The floor of the gasoline tank excavation was over-excavated approximately two feet (ft).
- 13) Approximately 40 tons of soils obtained from the gasoline tank excavation were profiled, loaded and transported under a Non-Hazardous Bill of Lading to TPS Technologies Soil Recycling, a State licensed recycle facility located in Richmond, California.
- 14) The excavations were backfilled in six-inch lifts, compacted to 95% or better (verified by soil density tests), with clean imported Class II Aggregate Base and refinished with a four-inch thick asphalt surface and sealant material.

2.0 Field Investigative Procedures

The following sections detail the field procedures that were initiated to remove and dispose of the USTs and sample the tank excavations and associated stockpiles.

2.1 Tank Removal

Prior to initiating the site activities, a utility survey was completed by Subtronic, Inc. a State licensed utility surveyor located in Concord, California. A steam line location was verified and various storm water pipe locations were marked that enter a storm water collection sump adjacent to the gasoline tank. A clay drainage pipe was located directly over the gasoline tank.

IT excavation activities began on 13 August 1997, with the disconnection of the associated tank pumps, vent and product lines. The three-inch clay pipe/French-drain storm water drainage system was dismantled. The tank contents were pumped out of each UST into DOT approved 55-gallon drums for appropriate disposal by UC Berkeley personnel. The tanks were unearthed and the soils associated with each tank were independently placed on visqueen and kept separate pending receipt of the confirmatory laboratory analysis.

On 15 August 1997, IT personnel removed a single walled, steel 500-gallon diesel and a single walled, steel 500-gallon gasoline UST from the project site. Each tank was rendered inert, inspected by IT and UC Berkeley personnel, Alameda County and the City of Albany Fire Department officials, and transported under State of California Uniform Hazardous Waste Manifest #96836283 to Erickson Environmental, Inc. a State certified tank recycling facility in Richmond, California (APPENDIX B). Each tank was inerted with approximately 50 pounds of dry ice (solid carbon dioxide). Prior to removal, the lower explosive limit (LEL) associated with the diesel and gasoline tank was verified to be 3% and 2%, respectively. In each tank, the oxygen content stabilized at approximately 1%.

Following the removal from the excavation, each UST was visually inspected by Ms. Eva Chu, a Hazmat Specialist with the Alameda County Health Agency, Division of Environmental Protection, Department of Environmental Health, Ms. Anna Moore with the

UC Berkeley Office of Environment, Health & Safety, and IT personnel. The UST was scraped with a blade shovel to remove soil that had adhered to the walls and tank bottom. This permitted on-site personnel to properly inspect the tank integrity. It was noted that the gasoline tank contained a hole approximately two-inches in diameter adjacent to the vent pipe and numerous holes up to one-inch in diameter on the product line. The diesel tank did not contain any visible holes, cracks, or corrosion on its sides, bottom or top.

Selected photographs of the tank removal activities are shown in APPENDIX C.

2.2 Gasoline Tank Excavation

The gasoline UST had visibly impacted the surrounding soils with residual hydrocarbons. The floor was excavated approximately two to three ft past the original tank bottom grade to a depth of approximately nine ft. Soil sample analysis confirmed that residual levels of hydrocarbons remained in the excavation. There was some residual material visible on the western sidewall at approximately eight to nine ft below ground surface (bgs). As a result of the location of the material with respect to the adjacent structure, IT Personnel were not able to removed this material from the excavation.

IT returned to the site on 20 August 1997, to further over-excavate the floor of the tank pit. As a result of out-of-season storm activity and the removal of the French drain, the excavation was filled with storm water. Universal Engineering was contracted to pump the storm water from the excavation and transport the material for recycle to Seaport Petroleum Corporation, a State certified recycling facility in Redwood City, California. Approximately 1,600 gallons of water was removed from the excavation. Following removal of the storm water, IT over-excavated the floor surface to approximately 11.5 ft bgs. Ground water was encountered in the excavation at approximately 11 feet bgs. The final excavation dimensions were approximately 12 ft long by 6 ft 7-inches wide x 11.5 ft deep. Side wall soil samples were obtained from the northeast and southwest corners of the tank excavation at a depth of approximately 10 ft.

Following receipt of the laboratory analysis on the confirmatory sidewall samples, permission was granted from the Alameda County Health Department to backfill and restore the site. Approximately 20 tons of drain rock was placed in the excavation to one ft above the ground water elevation. Imported Caltrans specification Class II Aggregate Base was immediately

placed back in to the excavation. Soils were compacted to 95% in six-inch lifts and resurfaced with a layer of four-inch asphalt and sealant material. BSK, a soils engineering firm located in Pleasanton, California was utilized to verify the compaction on the excavation. A copy of the soil density report is included as APPENDIX D.

2.3 Diesel Tank Excavation

The diesel tank excavation was completed without incident on 13 August 1997. The tank integrity did not appear to have been compromised. However, a faint hydrocarbon odor was associated with the excavated soils. Upon receipt of confirmatory laboratory analysis on soil samples obtained from the excavation floor and stockpile samples, Ms. Chu did not require further over-excavation and gave permission to backfill the excavation with the excavated soils. The final excavation dimensions were approximately 11 ft long x 6 ft wide x 8.5 ft deep. Approximately 8 tons of clean, imported backfill was added to the excavation. Soils were compacted to 95% in six-inch lifts and re-surfaced with a layer of four-inch asphalt and sealant material.

Copies of the compaction testing are included as APPENDIX D.

2.4 Sampling Rationale and Procedures

Initially, one confirmatory tank floor soil sample was obtained from the floor of each tank excavation (Figure 2). One sample was obtained beneath the product line of the diesel tank. One soil sample was obtained from beneath the vent line and hole associated with the gasoline tank. One, four-point composite sample was obtained from each stockpile. All sampling activities were performed under the supervision and direction of Ms. Chu.

Based on the results of the laboratory analysis associated with the gasoline tank, IT was instructed by Ms. Chu to over-excavate the bottom of the excavation. The bottom of the excavation was encountered at 11.5 ft, approximately six-inches below the static ground water level. In order to help define the lateral extent of the hydrocarbon migration, a soil sample was obtained from the northeast and southwest side wall approximately one ft above the static water level.

Based on the visual condition of the excavation and laboratory analysis associated with the diesel tank pit, no further soil sampling or over-excavation work was required.

The site activities generated two, ten cubic yard stockpiles immediately adjacent to the excavation. IT personnel obtained two, four-point composite soil samples from the stockpiles and submitted them for laboratory analysis. Following receipt of the composite sample obtained from the diesel tank stockpile, Ms. Chu requested that an additional discrete soil sample be obtained from the diesel tank to verify its acceptability to be placed back into the excavation.

Soil samples for chemical analysis were collected from the floor of the tank excavation in thin-walled brass tubes, six-inches long with an outside diameter of two-inches. The tubes were driven into undisturbed in the front area of the backhoe bucket. Stockpile soil samples were driven by hand, into undisturbed soil at four random points, six-inches below the exposed surface of the pile. The brass tube was immediately trimmed and capped with Teflon liners and plastic end caps. All of the samples were immediately labelled and placed into a cooler to cool the sample to a maximum temperature of four degrees Celsius for delivery, under chain of custody protocol, to McCampbell Analytical, Inc. a State certified laboratory in Martinez, California for analysis.

Utilizing a dedicated Teflon bailer, a discrete ground water sample was obtained from the gasoline excavation and decanted into two, 40 milliliter (ml) sample containers preserved with HCL. All sample bottles were supplied and prepared by the laboratory. Care was taken to ensure that there no head space was present in the sample containers. The samples were transported to McCampbell Analytical under the same procedures discussed above.

These procedures minimize the potential for volatilization of volatile organic compounds (VOCs) prior to chemical analysis.

2.5 Disposal

Based on the results of the laboratory analysis, approximately 40 tons of impacted soils associated with the gasoline tank were loaded and transported under a Non-Hazardous Waste Manifest to TPS Technologies Soil Recycling in Richmond, California.

Universal Engineering transported 1,600 gallons of rain water, collected in the gasoline excavation, to Seaport Petroleum Corporation, a recycling facility in Redwood City, California.

Tank contents and rinsate were collected in DOT approved 55-gallon drums and transported under California Uniform Hazardous Waste Manifest #96833643 to Rollins Environmental Services, a State permitted facility in Los Angeles, California. Disposal and transportation of this material was arranged by UC Berkeley personnel.

Copies of the Non-Hazardous Waste Manifest, Hazardous Waste Manifest and the Bill of Lading are included in APPENDIX B.

3.0 Laboratory Analytical Procedures

3.1 Soil Samples

One soil sample was obtained from the floor of the diesel tank excavation. A total of three soil samples were obtained from the gasoline excavation, one floor and two sidewall samples. One composite soil stockpile sample was obtained from each stockpile and an additional discrete sample was obtained from the diesel stockpile.

The samples associated with the diesel excavation and the stockpiles were analyzed for total petroleum hydrocarbons as diesel (TPH-d), total petroleum hydrocarbons as gasoline (TPH-g), fuel components benzene, toluene, ethyl-benzene, and xylene (BTEX) by EPA method 5030/8020, and total lead by EPA Method 6010. All samples were analyzed for methyl tertbutyl ether (MTBE) by EPA Method 8020.

Samples obtained from the gasoline excavation and stockpile were sampled for TPH-g, BTEX, MTBE, and total lead.

3.2 Ground Water Samples

A ground water sample was obtained from the gasoline tank excavation. The sample was analyzed for TPH-g, TPH-d, and BTEX.

4.0 Laboratory Analytical Results

4.1 Tank Excavation Soil Samples

4.1.1 Diesei Soil Samples

The tank excavation soil sample obtained from the floor of the diesel tank excavation did not contain any analyzed chemical constituents above the method detection limits (MDLs). The diesel stockpile contained 240 mg/kg TPH-d, 8.1 milligrams per kilogram (mg/kg) TPH-g, 0.007 mg/kg ethylbenzene, 0.027 mg/kg xylenes and 9.6 mg/kg total lead. The discrete soil sample obtained from the stockpile contained 130 TPH-d, 8.7 TPH-g, 0.011 mg/kg ethylbenzene, and 0.048 mg/kg xylenes. Benzene and MTBE were not encountered above the MDL.

4.1.2 Gasoline Soil Samples

The initial soil sample obtained from the floor of the gasoline tank excavation contained 900 mg/kg TPH-g, 3.0 mg/kg benzene, 6.2 mg/kg ethylbenzene, and 9.7 mg/kg total lead. TPH-d or MTBE was not detected above the MDL. The southwest side wall sample contained 300 mg/kg TPH-g, 0.44 mg/kg benzene, 0.63 mg/kg toluene, 1.7 ethylbenzene, and 1.9 mg/kg xylene. The northeast sidewall sample contained 1.0 mg/kg TPH-g, 0.047 mg/kg benzene, 0.017 mg/kg toluene, 0.006 ethylbenzene, and 0.022 mg/kg xylene.

4.1.3 Ground Water Sample

The ground water sample obtained from the gasoline tank excavation contained 7,400 micro grams per kilogram (ug/kg) TPH-g, 760 ug/kg TPH-d, 1,200 ug/kg benzene, 260 ug/kg toluene, 130 ug/kg ethylbenzene, and 370 ug/kg xylenes.

Results of all of the laboratory analytical data are included in Table 1. Laboratory analytical reports and chain of custody documentation are contained in APPENDIX E.

5.0 Conclusion and Recommendations

5.1 Conclusion

On the basis of the visual condition of the diesel tank excavation, laboratory analysis of the excavation floor and stockpile soil samples, it appears that the tank has not significantly impacted the surrounding environment. The soil stockpiles did contain concentrations of residual hydrocarbons that may be attributed to tank overspill and pump or line seal leaks.

Site observations and analytical data confirmed that the gasoline tank appeared to have impacted the immediate area of the excavation. Following over-excavation activities, the northwest side wall soil sample confirmed that only 1 ppm TPH-g and 0.047 ppm benzene were present in this area of the excavation. The southwest side wall sample contained elevated residual TPH-g and benzene at 300 ppm and 0.44 ppm, respectively.

5.2 Recommendations

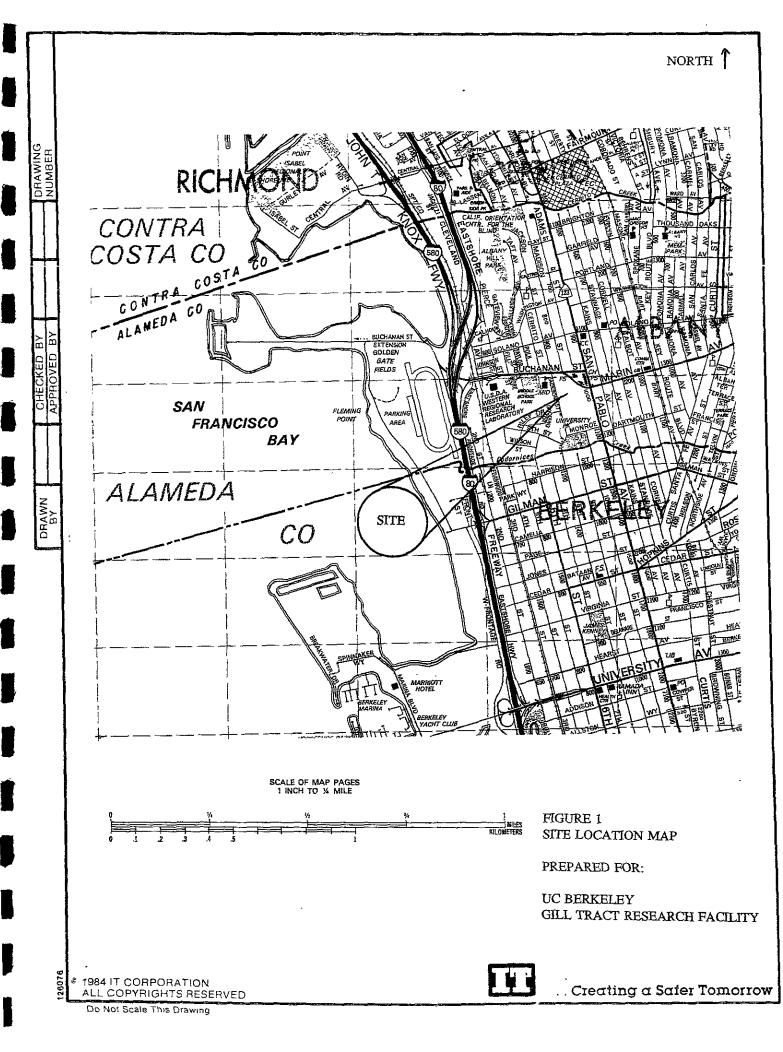
As a result of the excavation floor soil sample results associated with the southwest area of the gasoline tank excavation, it is our understanding that the Alameda County will require additional subsurface investigation work to help determine the lateral extent or migration of the hydrocarbons. Based on the relatively clean condition of the diesel tank excavation, it would be prudent to focus the activities in the assumed down gradient direction towards the south southwest within ten feet of the gasoline tank excavation.

6.0 Disclaimer_

The statements, opinions and conclusions contained in this report are based solely upon the services performed by IT Corporation (IT) as described in this report and the Scope of Work as established for the report by Client's budgetary and time constraints and the terms and conditions of the agreement with Client. In performing these services and preparing the report, IT relied upon the work and information provided by others, including public agencies, whose information is not guaranteed by IT Corporation.

In addition, Client has been advised and understands that the absence of contamination in one location does not necessarily preclude the finding of contamination in other locations that were not investigated in preparing this report.

This report is intended for the Client's sole and exclusive use and not for the benefit of others and may not be used or relied upon by others. The findings of the report are limited to those specifically expressed in the report and no other representations or warranties are given by IT and no additional conclusions should be reached or representations relied on other that those expressly stated in the report and as limited by IT Terms and Conditions.



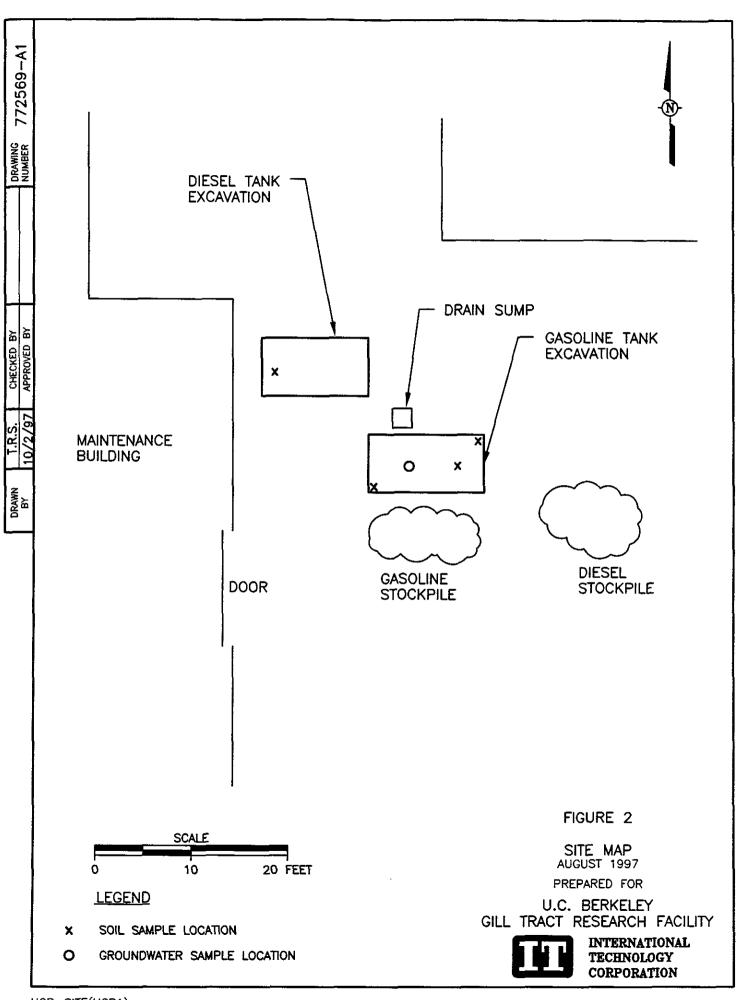


TABLE 1 CONFIRMATORY SAMPLING RESULTS

Gill Tract Research Facility Albany, California August, 1997

SAMPLE I.D.	TPH-g (mg/kg)	TPH-d (mg/kg)	Total Lead (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/Kg)
	Method 8015	Method 8015	Method 6010	Method 8020	Method 8020	Method 8020	Method 8020	Method 8020
Tank Floor Excavation	on Samples							
Diesel Floor	ND<1.0	ND<1.0	Not Analyzed	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Gasoline Floor	900	Not Analyzed	9.7	3.0	ND<0.05	6.2	17	ND<17
Gasoline Floor-SW	300	Not Analyzed	Not Analyzed	0.44	0.63	1.7	1.9	Not Analyzed
Gasoline Floor-NE	1.0	Not Analyzed	Not Analyzed	0.047	0.017	0.006	0.022	Not Analyzed
Soil Stockpile Sampl	es							
Diesel Stockpile Composite 1	8.1	230	9.6	ND<1.0	ND<1.0	0.007	0.027	ND<1.0
Diesel Stockpile 2 Discrete	8.7	130	Not Analyzed	ND<1.0	ND<1.0	0.011	0.048	ND<1.0
Gasoline Stockpile Composite	24	Not Analyzed	8.2	0.036	0.13	0.092	0.58	ND<0.4
SAMPLE I.D.	TPH-g ug/L	TPH-d ug/L	Total Lead ug/L	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
*****	Method 8015	Method 8015	Method 6010	Method 8020	Method 8020	Method 8020	Method 8020	Method 8020
Ground Water Sample								
Excavation Water Sample	7,400	760	Not Analyzed	1,200	260	130	370	Not Analyzed
ND<0.05 = Non-Detect. The chemical constituent is below the Method Detection Limit (MDL).								

900003524FE

ALAMRDA COUNTY HEALTH CARE SERVICES DEPARTMENT OF .ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVIBION 1131 HARBOR BAY PARKWAY, RM Project Specialist 250 CA 94502-6577 510/567-6700 510/337-9335 # Undarground Storage Tenk Closure Pennih Application These chauterhomous plans have been received and found to the worspieche and essentially meet the requirements of Siste and Local Hesin Laws. Changes to your wouve plans included by this Department and to passure concellated with Sints and local lass, the project processo treath is now received for lessuance of any nequited building partitle for Una casy of the ecressed plans must be on the job and evidence to all contractors and craftsman invented with the Alamede County Division of Hazardous Maarieta Any coenges of alterations of those plans and specifications must be submitted to this this Department and to live fine and Building Inspections Department to existing a curr Hotely this Empartment at least 72 hours prior to the halonding lestvance of a) permit to chorate, b) permanent sha closure, is dopendent on comparing with accepted plans Changes need the reculing seas of State and New Library. 1131 Haibor Bry Parkmay, Suite 250 THERE IS A FINANCIAL PENALTY FOR NOT CATAINING THESE INSPECTIONS Removal of Tank(s) and Piping Alameda, CA 94502-6577 ACCEPTED PROTECTION and all applicable lave and regulations. JUL 30 - Final Inspection <u>.</u> Sampling Contact Specialist UNDERGROUND TANK CLOSURE PLAN Complete according attached instructions to

<u> </u>	name of Business University Colifornia
	Business Owner or Contact Person (PRINT) Ms Han Krashna
2.	Site Address _ C.: U.Toct C
	Site Address _ C.: L. Tract Facility Lurst of Interestion of Marin and
	Dertele,
4.	Property owner PRSUN USES I CON DO ON SIO-642-6416
	Property Owner PRS-University California Regards Business Name (if applicable) PPC Address O
	Address 2000 Carleton Street, Room 115
	City, State Bedel
5.	Generator name under which tank will be manifested
•	
	California Mal
	EPA ID# under which tank will be manifested C A Q 6 d A 2 d 5 Q (
	manifested CAQ 6 d A 2 d s A / /

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6. Contractor Ecology Contra Industries
Address 4585 Pacheco Blod
city Martinez, CA Phone 510-372-4418
License Type D, HAZ, Ashes ID# 137422
*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires pr contractors to also hold Hazardous Waste Certification issued by the State Contract License Board.
7. Consultant (if applicable) Ecdony Control Tudestria
Address _ 4385 Pacheco Blod
City, State Markinez, CA Phone 510-372-4418
8. Main Contact Person for Investigation (if applicable)
Name Ms. Anna Moore Title Haz: Material Special
Company University California, Berletey (EH+S)
Phone
. Number of underground tanks being closed with this plan $\sqrt{160}$
Length of piping being removed under this plan Less than 20 Feet
Total number of underground tanks at this facility (**confirmed wowner or operator)
10. State Registered Hazardous Waste Transporters/Facilities (see instructions).
** Underground storage tanks must be handled as hazardous waste **
a) Product/Residual Sludge/Rinsate Transporter
Name <u>Evergreen Environmental</u> EPA I.D. No. <u>CAO98¢87412</u>
Hauler License No. ORYL License Exp. Date Jug 97
Address. 6880 Smith Avenue
City Newart State (A Zip 94560)
b) Product/Residual Sludge/Rinsate Disposal Site
Name <u>Evergreen Enjourentel</u> EPA ID# <u>CAO98087418</u>
Address 6880 Smith Avenue
City Neuark State CA Zip 94560

· .		
. c)	c) Tank and Piping Transporter	
	Name Enickson Inc	
	Hauler License No	License Exp. Date May 31/98
	Address 255 Parn-Balecard	
	city Richmond state	CA zip 94801
đ	d) Tank and Piping Disposal Site	•
	Name Erickson, Inc	EPA I.D. No. CAOOO946639
	Address 255 Paw Bosleva	rd_
	city Richmond Sta	
11.	Sample Collector	·
•	Name Stephen Schnart	
	Company - Ecology Control I	ndustria
	Address . 4585 Pacheco Blo	
	city <u>maintinez</u> state <u>CA</u>	
12.	Laboratory	
	Name Chromatab	
	Address 1320 Quan Lana	
	city Pleasanton State	
	State Certification No. 1094	
13.	. Have tanks or pipes leaked in the past	? Yes[] No[] Unknown[]
	If yes, describe	

 $\mathbf{t}^{A_{\mathbf{t}}}$

14. Describe methods to be used for rendering tank(s) inert:

. :

30 pounds of On Tee/1000 gallons Tank volume

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must them 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.

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

		<u> </u>			
	Tank	Material to be sampled (tank contents, soil,	Location and		
Capacity Use History include date last used (estimated)		groundwater)	Depth of Samples		
500 gallon (Diesec)	Oiesel Stoppeduse in)	Soil- (Ground mater not Anticipated)	Beneath each tan end to a maximum of after below the tank		
Soogalon (gasoline)	Unleaded/Leadedlas (Stopped use in) 1996	(grand unter not) anticipated	Beneath each Tank end to a maximum of 2 Feet below the fank.		
 -	\		1		

One soil sample must be collected for every 20 linear feet of piping that removed. A ground water sample must be collected if any ground water present in the excavation.

1.4

Stockpiled Soil Volume (estimated)
less than 20 wsic yards
11 10yards - 500 gallon 0:00cl -
2110 yards - Soogallon-gasaine

Sampling Plan:

1-4pt composite - Diesel, BTEX
Tolariad (MTBE)
1-4pt composite - Gasoline, BTEX
Total lead (MTBE)

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

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

If yes, explain reasoning.

If unknown at this point in time, please be aware that excavated soil mot be returned to the excavation without prior approval from Alame County. This means that the contractor, consultant, or responsible paramust communicate with the Specialist IN ADVANCE of backfillic operations.

- 16. Chemical methods and associated detection limits to be used for analyzing samples:

 The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.
- 17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Diesel	EpA method 3550	epa method 3510/8015 -	16pm
xSTO (SOTM)	·	Epamerral 8020	5660
gusolire	EPA MEHLOD 25030	2008 builtan 1993.	166~
Total land	EPA method 30-50	EPA method 6010	Oweppm

pproved OMS No. 2050-0039 (Exbires 9-30-96) * rint or type. Form designed for use on elite (12-pin		aus on pack	or page	∌ 6.	Departr	ment of Toxic Substant Socramento, Californ
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Docume	nt No.	2. Page 1	Informat	ion in the shaded are juired by Federal lan
3. Generator's Name and Mailing Address	C17 10 10 10 10 13 10 13 13 19 19 19	3 3 6	4 3	of]		
University of California	, Berkeley, Environment.	Health 8	A. Stote	Manifest Documen		adodos
Safety, University Hall,	3rd floor, Berkeley, Ca	94720		Generalor i ID		066 0 0 t
4. Generator's Phone (510) 643-	8976 ATTN: Van		4 4	2 β b		
5. Transporter 1 Company Name University of Coldfords	6. US EPA ID Number		C, Stufe	Inomporter i ID		
University of California		814441343	D. Trons	Phone (5		
7. Transporter 2 Company Name	C A D 9 8 0 5 6	3 4 5 9 2	न्यंति । स्त्री वर सम्बद्ध	Trocuporter's ID	10164	1-1073
Laidlaw Environmental Se	rvices	.	32345 2614	大学校园		全国发 车的条
9. Designated Facility Name and Site Address	C A D O O O O O O O O O	8 3 1 2 1				(4.0000 pt
Rollins OPC						
5756 Alba Street Los Angeles, CA 90058			H. Facilit	Y a Phone	经特殊报	THE PERSON
	C A D 0 5 0 8 0				3)585	5013
11. US DOT Description (including Proper Shipp		12, Cor Na.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
(RQ) Waste Flammable	liquds, n.o.s., (Diesel			-		State 214
and water), 3, UN1993, Po	G II, (D001)	plok.		ا مرامع ایسویومرجیستا		EPA/OthenDOOI
b(RQ) WAste Flammable	liquids, n.o.s., (gasoli	DOIL	9 <u>M</u>	00005	G	A MALL MALL
and water), 3, UN1993, P	G II, (D001)	4167				State 214
ζ.		1001	D M	70055	G	EPA/Other D001/
C		7		A CONTRACTOR OF THE STREET	1	State
						EPA/Other
d.						
	•				ļ	State *; }*
h Addis I O				1111		EPA/Other
J. Additional Descriptions for Materials Usted Ab 11a) OP-329274-165, 4478, El	ow Sea attached sheets.		K. Handli	g Codes for Wast	es Listed Al	evoc
11b) OP-329274-165,4476,E	RG# 128		6. 1		6	
		erdensk i dan San	e ",		d	saire.
15. Special Handling Instructions and Additional I			. *\	•	- 4	
		(2				
MERCENCY RESPONSE CONTAC	or. (Le are) come (Manir	ლმ, ბულესე	-4.24-	9306.		
 GENERATOR'S CERTIFICATION: I hereby dipacked, marked, and labeled, and are in all 	eclare that the contents of this consignment are fu	lly and negurately				
packed, marked, and labeled, and are in all I	respects in proper condition for transport by high	way according to	applicable	international and or	ational Govi Inboing nan	ne and are classified ernment regulations
If I am a large quantity generator I comit.	ALLE FRANCE CO.					
mreat to human health and the environment.	OP if I am a small as such.	e, or disposal cui	rently avai	lable to me which	minimizes #	he present and fun
waste management method that is available to tinted/Typed Name	o me and that I can afford.		un enterne	minimize my wast	e generatio	on and select the b
ark Van Valkenburgh	Wind Dila	1. 1/1/b	n- L	. 1	Mon	h Day
7. Transporter 1 Acknowledgement of Receipt of rinted/Typed Name	Materials	7-1 V/(V /\	1 31	γ		
Philip 7 K.	Signature		0.		Mont	h Day
8. Transporter 2 Acknowledgement of Receipt of	Materials Materials		12- U	C Berley	<u> </u>	0//17/9
rinted Typed Name	Signature /	7			Mont	h Day
9. Discrepancy Indication Space	I Joseph	1 lan	corps		11	2229
			1 mg			per - a - a - a - a - a - a - a - a - a -
D. Facility Owen or Court C. III						
). Facility Owner or Operator Certification of recontred/Typed Name	eipt of hazardous materials covered by this mani- Signature	fest except as not	ed in Item	9.	···	
	Signorare				Monti	Day Y

C/ 800 550

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IN CASE OF EMERGENCY OR SPILL CALL THE NATIONAL PESPONEE CENTER 1-80808-880

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NG, 2540

	CUSTOMER
1	.T.CORPORATIO
	JOB NO.
c	70858

1			EDICUCON IN	,~	20793		
		FOR:	ERICKSON, IN	∸ TANK NO	20733		
	LOCATI	ON: RICE	IMOND	DATE: 97/	<u>08/2</u> 5 TIME :	14:49	
EST	METHODVI	SUAL GASTE	ECH/1314 SMPN	LAST PRODU	СТ	D	
Pe Ti	nis is to certify the etroleum Institute his certificate is empleted and is iss	and have for based on o	ound the conditions existing	on to be in acco	ordance with its the inspection	assigned designed herein set fo	gnation.
T	ANK SIZE500	0 G <i>P</i>	ALLON TANK	CONDITIO	ONSAF	TE FOR FIRE	
RE	EMARKS: OXY ERICKSON, INC CUT OPEN, PRO WASTE FACILIT ERICKSON, INC SHIPPED TO US	C. HEREBY OCESSED, A TY. C. HAS THE	CERTIFIES THAND THEREFORE APPROPRIATE	AT THE ABOVE DESTROYED A	NUMBERED TA T OUR PERMIT	ANK HAS BEEN TTED HAZARDO	OUS
mi	the event of any phy mediately stop all ho anges occur.	/sical or atmosp ot work and co	pheric changes affect ntact the undersigne	ing the gas-free cord. This permit is va	nditions of the abo	ve tanks, or if in a no physical or atr	ny doubt, nospheric
S	TANDARD SA	AFETY DE	SIGNATION				
19 ju	FE FOR MEN: Means 5 percent by volume dgment of the Inspec ile maintained as dire	e; and that (b) 1 ctor, the residue	Toxic materials in the es are not capable o	atmosphere are wi	thin permissable co	oncentrations; and	(c) in the
ati no an su	FE FOR FIRE: Mea mosphere is below 10 t capable of producing d while maintained a fficiently to prevent to cessary by the Inspec	O percent of the ng a higher cor as directed on t the spread of fi	e lower explosive lim scentration that perm he Inspector's certific	it; and that (b) In t itted under existing cate, and further, (c	he judgment of the atmospheric condi All adjacent spac	e Inspector, the restions in the presences have either bee	sidues are nce of fire en cleaned
	Undersigned representations	entative acknow	rledges receipt of this	s certificate and un	derstands the cond	itions and limitatio	ns under
RE	PRESENTATIVE		TITLE		INSPECTOR		

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard - Richmond, California 94801

NO. 2540

CP599

	CUSTOMER
1	.T.CORPORATIO
	JOB NO.
9	70858

FOR: ERICKSON, INC. TANK NO. 20800
LOCATION: RICHMOND DATE: 97/08/25 TIME: 14:49
EST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT GAS
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.
TANK SIZE 500 GALLON TANK CONDITION SAFE FOR FIRE
REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% 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 changes occur. 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 while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.
The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued. REPRESENTATIVE TITLE INSPECTOR

To	- An	California—Environmental Protection Agency proved CMB No. 2050–0039 (Expires 9-30-96) rint or type. Form designed for use on elite (12-pitch) typewriter.	See Instructions	on back of page	6. 97085X	Department of Teels Substances Co. Sucramente, California
	1	1 INIFORM HAZARDOUS 1. General		ifest Document No.	2. Page 1 .	information in the shaded areas is not required by Federal law.
		3. Generator's Name and Mailing Address	UUUUUUT TO D	16 4 1	Or /	FILE
550		HC REPKELEY EURS			n day da ngajirin	
1-800-852-7550		317 UNIVERSITY HALL BERKELEY, CA 94720-1150 4. Generator's Phone (510) 642-3073	ATTN: ART MAHONEY		25 4 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
8	1	5. Transporter 1 Company Name	6. US EPA ID Number		The state of the s	
2	ı	ERICKSON, INC.	CAD009466	5 3 9 2		
CALL		7. Transporter 2 Company Name	8. US EPA ID Number	35 × 1,2	ASSET F	
		. O Colombial For Tay Name and Site Addition	10. US EPA ID Number		erigarin Tiberin George Handa d a a	
CALIFORNIA,	1	9. Designated Facility Name and Site Address ERICKSON, INC.	10. US EPA ID NUMBER			i i i jaran da
A H		255 PARR BLVD. RICHMOND, CA 94801	C A D 0 0 9 4 6 6	5131912		
		11. US DOT Description (including Proper Shipping Name, H		12. Containers	13. Total Quantity	14. Unit Wt/Vol
E		NON-RCRA HAZARDOUS WASTE, S	OLID	No. Type	Godinay	WI) 101
}	G	MASTE EMPTY STORAGE TANK)		002 1 P	10000	P
1-800-424-8802, WITHIN	N	b.			7 0,010	
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NATIONAL RESPONSE	1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
ESP		STORAGE TO STORAGE				
AL.						
S		15. Special Handling Instructions and Additional Information	KEEP AWAY FROM SOUR	OCEC OE	EMEDGENCY	RESPONSE CONTACT
₹		IGNITION. ALWAYS WEAR HARDHAT	S WHEN WORKING AROUS			MAHONEY
표		E - OF iob# 970858			EMERGENÇY	RESPONSE PHONE
CALL		16. GENERATOR'S CERTIFICATION: I hereby declare that packed, marked, and labeled, and are in all respects in p	the contents of this consignment are fully	and accurately describe	d above by proper s	hipping name and are classified,
1		If I am a large quantity generator, I certify that I have				
SPILL,		economically practicable and that I have selected the pr threat to human health and the environment; OR, if I as	acticable method of treatment, storage,	or disposal currently as	railable to me which	minimizes the present and future
క		waste management method that is available to me and the Printed/Typed Name		w		Month Day Yea
	¥	ANNAWIDORE	Chunc	11 pre		10181/591
EMERGENCY	Ř	17. Transporter I Admowledgement of Receipt of Materials Printed Typed Name	Signature C C	<u>//</u> ///		Month Day Yea
XE	\$	18. Transporter 2 Acknowledgement of Receipt of Materials	tred FQ)kne		081159
5	Ř T E	Printed/Typed Name	Signature			Month Day Yea
CASE	R	19. Discrepancy Indication Space		<u> </u>	<u> </u>	
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	Î T	20. Facility Owner or Operator Certification of receipt of haze Printed/Typed Name	zardous materials covered by this manife Signature	st except as noted in ite	m 19.	Month Day Yea
	Y	DAVIO SATO	UNE 3	1TO		08159
-	79		DO NOT WRITE BELOW T	HIS LINE.		- :



ERICKSON Tank Processing JOB #- 970858 TANK CERTIFICATION

Page 1 of

		TANK CEK	HECATION		
****	PART	I - To be comp	leted by the Customer	****	*******
STOMER. ITC	orparation	GENERATO	R: UC Benkeley	State Waste Co	des 512
CATION: Ma	rtines	EPA LD.#:_	CA0000 30396		
ansporter <u>.</u>	rickson	MANIFEST	<u># 96836283</u>	<i>T</i>	ose & Attacked
ank #:	10799	20780	TANK#	TANK S	TANK 6
APACITY.	<u> Spo</u>	<u>500</u>	1710		
AMETER	3,8	3.6	5/6 201	04	
енсти:	7/2	6,9	/0.		
TEEL/GLASS:	Steel	Siece		-	
kst containé d: I			as, D = Diesel, UO = Us other than above.	ed Oil, FO = Fue	Oil
			PROCESSING FACILITY TION NOTIFICATION FO	RM	
⊢क्टाट तक्काटाटाटी चंद्रसास स्टीलक्टार्ट. As	on this manifest is no such it is not regulate	t generated by a c od roder 40 CFR P	bemical manufacturing plan act 61, Subpact FF (NESH/	nt, coke-by-produc APS for Benzene O	t recovery plant of perations).
Pursuant to 40 CE RCRA hazardous v	TR 268.7 [an notifying rasic and not carrently	Efickens, Inc. the subject to EPA La	t the material described by t not Disposal Restrictions.	he above manifest	s a nonwastewaler,
1-14 CEA solid hazzed	ous waste (6626 <u>8.29(g</u>)), and an occasion o	tist the nuterial described coataining Non-RCRA solid iste is no longer subject to i	bazardous waste (6	6268-29 (I-V) Tha
emplete and accurate information provides fying the discrepant at a pay the cost of flect at the time of re	to the best of my know i above. In the event t cy(los) between the tank preparation, transportat	vicige. The tanks of hat the tanks do no k(s) and the form. ion and disposal/ru	ly that all information subm in the transport equipment he is correspond to the form. I In the even that the tank(s) cycling of the excess material d Erickson, Inc. responsible	ave been annivered will pay any and a contain excessive al according to the	to correspond with il costs incurred in solids or liquids, I
nature.		lore-	P. 4 600	. A. 5/	72
NI NAME:	Arma M	1012E	THL	EFITS	pecialist
i or essistança i	n completing this form	, please ceatact Ka	ceo Ruffin et (510) 970-746		7

			1401	1-Hazard	ous Soils				
	Date of Shipment: 8-20-97	Responsible for Consul		Transporte LO		B Facility #:	Given by Ti ØØ17		Load #
	Generator's Name and Billing UC Berkeley: University		1.		Generator's P (510) Person to Cor	643-854		or's US EPA ID No	
	<u> </u>	The state of the s	- .#		Hank	Field			
	Berkeley, CA		50 	USA		643-759		er Account Numbe JCBERK	r with TPS:
	Consultant's Name and Billin	ng Address: on-Martine:	z.		Consultant's	Phone #: 372-9100	2		
	4585 Pacheco	Blvd.			Person to Cor Steve	Schwart:	z		
	Martinez, CA			USA	FAX#: (510)	⁻ 228-250:		er Account Numbe 103129	r with TPS:
	Generation Site (Transport from UC Berkeley-		. ·		Site Phone #:	642-641	BTEX Levels		. 1
-	1050 San Pat		•		Person to Cor	ntact:	TPH Levels	***	
Itani					Hari FAX#:	Krashma	AVG.		
nsu	Albany, CA			USA			Levels	Zyr Zw	
or Cc	Designated Facility (Transpor				Facility Phone 510-2	**: 35-8778	Facility 1	Permit Numbers	
Generator and/or Consultant	20 Recycling	j Lane		š	Person to Cor D. Mu	_{tact:} rashima/(C. Rice		
nerato	Richmond, CA			USA	FAX#: 510-2	31-4154			
Ge	Transporter Name and Mailir Cabarello Tr	rucking	· -	*	Transporter's (408)	Phone #: 729-0196	5 Transpor	nter's US-EPA ID N	lous Artistics
	2530 Berryes Suite 527	sea Road	i songe		Person to Con	tact: Cabare I.		nter's DOT No.:	
,	San Jose, CA	95132		USA	FAX#408)	729-032	2 Custom	ABARE	r with TPS:
			Contominated by	y: Approx	r. Qty: De	scription of Delive	erv Gross W	eight Tare Weigl	Mat Waight
	Description of Soil	Moisture Content							it wet weight
	Sand O Organic O Clay O Other O	0 - 10%	Gas Diesel Dother D				-	00 3 207	
	Sand 🛈 Organic 🖸	0 - 10% 🖳 10 - 20% 🗔	Gas 🗅 — Diesel 🗅				-		14 100
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	Sand O Organic O Other	0 - 10%	Gas Drother Diesel Dother Diesel Dother Dother D	the soil ref	etenced hereir	ı is taken entirely ıg has been added Ho	762	00 3 207	22,09 22,09
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TPS Technologies Soil Recycling Non-Hazardous Soils Date of Stripment ConBultant Generator's Name and Billing Address: UC Berkeley University Hell Berkeley, CA 94720-1150 USA FAX#: Consultant's Name and Billing Address: ITCorporation-Martinez Consultant's Name and Billing Address: ITCorporation-Martinez Transporter Truck #: Facility # Facility # Facility # Facility # Facility # Consultant's Phone #: (510) 643-8542 Cenerator's US EP Cenerator's Phone #: (510) 643-8542 Consultant's Name and Billing Address: ITCorporation-Martinez Consultant's Name and Billing Address: (510) 372-9100	t Number with \$5:
Cenerator's Name and Billing Address: UC Berkeley University Ball Berkeley, CA 94720-1150 Consultant's Name and Billing Address: Consultant's Name and Billing Address: ITCorporation-Martinez Cenerator's Phone #: (510) 643-8542 Cenerator's US EP. (510) 643-8542 Customer Account 4UCBERI Consultant's Name and Billing Address: (510) 372-9100	PA ID No.
Generator's Name and Billing Address: UC Borkeley University Half 3rd Floor Berkeley, CA 94720-1150 Consultant's Name and Billing Address: ITCorporation-Martinez Generator's Phone #: (510) 643-8542 Person to Contact: Hank Field FAX#: (510) 643-7595 Customer Account 4UCBER!	t Number with \$3:
3rd Floor Berkeley, CA 94720-1150 USA FAX# (510) 643-7595 Customer Account 4UCBER Consultant's Name and Billing Address: ITCorporation-Martinez (510) 372-9100	t Number with S:
Berkeley, CA 94720-1150 USA FAX#: (510) 643-7595 Customer Account 4UCBER! Consultant's Name and Billing Address: ITCorporation-Martinez Consultant's Phone #: (510) 372-9100	t Number with S:
ITCorporation-Martinez (510) 372,9100	
4595 Pachage Plant	
4585 Pacheco Blvd. Person to Contact: Steve Schwartz	
Martinez, CA 94553 USA FAX#: (510) 228-2501 Customer Account 100312	t Number with TPS:
Generation Site (Transport from): (name & address) UC Berkeley-Gill Tract Site Phone #: (510) 642-6416 BTEX Levels	
1050 San Pablo Ave TPH Hari Krashma Levels	
Albany, CA 94706 Designated Facility (Transport to): (name & address) Hari Krashma FAX#: AVG. Levels Facility Phone #: Facility Phone #: Facility Permit Num	1745 T
	ımbers
TPS TECHNOLOGIES INC. 20 Recycling Lane Person to Contact: D. Nurashima/C. Rice	
Richmond, CA 94801 USA 510-231-4154	
Fransporter Name and Mailing Address: Transporter's Phone (408) 729-0196	
2530 Berryessa Road Person to Contact: Tammy Cabarello	
San Jose, CA 95132 USA FAX 408) 729-0322 Custoff ABAR	umber with TPS
Description of Soil Moisture Content Contaminated by: Approx. Qty: Description of Delivery Gross Weight Tar	re Weight Net Weight
Sand O Organic O 0 - 10% O Diesei O Clay O Other O 20% - over O Other O	4320 19.39
Sand	1919
List any exception to items listed above:	
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils describe. Sheet completed and certified by melus for the Generation Site shown above and nothing last been added or done to such soil that	ed in the Soil Data it would alter it in
any way. Print or Type Name: Consultant See Signature and determined to the second se	Month Day Year
Transporter's certifications I We acknowledge receipt of the soil described above and certify that such soil is being delivered in	n exactly the same
Transporter's certification of the acknowledge receipt of the soil described above and certify that such soil is being delivered in condition as when received liwe further certify that this soil is being directly transported from the Generation Site to the Di without off-loading, adding to, subtracting from or in any way delaying delivery to such site. Print or Type Name: Signature and date:	esignated Facility
Print or Type Name: Signature and date:	Month Day Year
Discrepancies:	
Jean Prise ARR	
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date:	
BE CHERON RICE Sice 8-9	2-97

TPS INVOICING COPY

TPS Technologies Soil Recycling

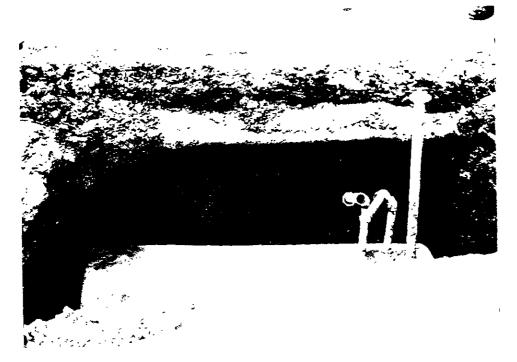
Non-Hazardous Soils

Date of Shipment:		Payment: tant	Transporter		Facility #:	00172		Load #
Generator's Name and Billing UC Berkeley University				643-8542	Generator's US	EPA ID No.		
-3rd Floor		l	Person to Cont Hank	* *				
Berkel ey, CA	94720-11	50	USA		643-7595	Customer Acco	nınt Number v ERK	with S:
Consultant's Name and Billin	g Address: on-Martine:	Z		Consultant's P	hone #: 372 9100			·
4585 Pacheco	Blvd.			Person to Cont Steve	Schwartz			
Martinez, CA	94553		USA	FAX#: . (510)	228-2501	Customer Acco	ount Number v	with TPS:
Generation Site (Transport fro	om): (name & address)			Site Phone #:		BTEX		
UC Berkeley-	Gill Tract	t		(510)	642-6416	Levels		
1050 San Pab		, and the value of a	ar - nank in-	Person to Cont	actif	TPH Levels	7 an. + s-a	· · · · ·
Albany, CA 9	4706		USA	FAX#: (*		AVG. Levels		
Designated Facility (Transport		;		Facility Phone 510-2:	# 35-8 7 98	Facility Permit	Numbers	
20 Recycling				Person to Cont	act: rashima/C.	Rice	•	
Richmond, CA	. 94801 , j		USA	FAX# 510-2	31-4154			
Transporter Name and Mailin Cabarello Tr				Transporters (hoje # 729-0196	Transporter st		
2530 Berryes	* .			Person to Cont	e fragilities and the second	Transporter's I		
■25 3.7 3.7				San	The Control of the Control of	• K		71.76
Suite 527 San Jose, CA	95132	to a series	USÁ	7	Cabarellb 729-0322		und lamber v	with TPS:
Suite 527 San Jose, CA Description of Soil	95132 Moisture Content	Contaminated by	,	FA(408)	Cabare 116 729-0322 cription of Delivery	Customer A So		
San Jose, CA		·	,	FA(408)	729-0322	Customer As		
San Jose, CA Description of Soil Sand C Organic C	0 - 10%	Gas Diesel Dother Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel D	,	FA(408)	729-0322	Customer As		
San Jose, CA Description of Soil Sand O Organic O Clay O Other O Sand O Organic O	0 - 10%	Gas Diesel Dother Gas Diesel Dother Contaminated by	,	FA(408)	729-0322	Customer As		
San Jose, CA Description of Soil Sand C Organic C Other C OTHER CONTROL CONT	Moisture Content 0 - 10%	Gas Diesel Diese	y: Approx	FA(468) L Oty: Des	729-0322 cription of Delivery	Gross Weight 485 80 those soils described	Tare Weight 3 2013 ribed in the S	Net Weight 8.24 Soil Data
San Jose, CA Description of Soil Sand Organic Other	Moisture Content 0 - 10%	Gas Diesel Diese	he soil refe	FA(468) L Oty: Des	729-0322 cription of Delivery it taken entirely from this been added or de	Gross Weight ASS 80 those soils descome to such soil	Tare Weight 3 2013 ribed in the S that would a	Net Weight 8.24 Soil Data
San Jose, CA Description of Soil Sand Organic Organi	Moisture Content 0 - 10%	Gas Diesel DOTHER DOTHE	he soil refeshown abo	Coty: Des	it taken entirely from has been added or de	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a month of a in exactly	Net Weight 8.26 Soil Data elter it in 2 97 the same
San Jose, CA Description of Soil Sand Organic Other	Moisture Content 0 - 10%	Gas Diesel DOTHER DIESEL DIESE	he soil refeshown abo	erenced herein ve and nothin hature and fine dinectly transpletivery to such	if taken entirely from this been added or defify that such soil is orted from the General	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8,24 Soil Data elter it in Day Year 12 97 the same Facility
San Jose, CA Description of Soil Sand Organic Organi	Moisture Content 0 - 10%	Gas Diesel DOTHER DIESEL DIESE	he soil refeshown abo	cerenced herein we and nothing the collins of the c	if taken entirely from this been added or defify that such soil is orted from the General	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8.26 Soil Data elter it in 2 97 the same
San Jose, CA Description of Soil Sand Organic Other	Moisture Content 0 - 10%	Gas Diesel DOTHER DIESEL DIESE	he soil refeshown abo	erenced herein ve and nothin hature and fine dinectly transpletivery to such	if taken entirely from this been added or defify that such soil is orted from the General	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8,24 Soil Data elter it in Day Year 12 97 the same Facility
San Jose, CA Description of Soil Sand Organic Other	Moisture Content 0-10%	Contaminated by Gas Diesel Dother Do	he soil refeshown abo	erenced herein we and nothin ature and his dinectly transpletivery to such	if taken entirely from this been added or de tify that such soil is orted from the General site.	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8,24 Soil Data elter it in Day Year 12 97 the same Facility
San Jose, CA Description of Soil Sand Corganic	Moisture Content 0-10%	Contaminated by Gas Diesel Dother Do	he soil refeshown about the soil describer is being a delaying del	cerenced herein we and nothing the livery to such as noted above	if taken entirely from this been added or de tify that such soil is orted from the General site.	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8,24 Soil Data elter it in Day Year 12 97 the same Facility
San Jose, CA Description of Soil Sand Organic Other	Moisture Content 0-10%	Contaminated by Gas Diesel Dother Do	he soil refeshown about the soil describer is being a delaying del	erenced herein we and nothin ature and his dinectly transpletivery to such	if taken entirely from this been added or de tify that such soil is orted from the General site.	Gross Weight ASS those soils descome to such soil being delivered	ribed in the Sthat would a Month of the English of	Net Weight 8.26 Soil Data elter it in 2 Year 2 47 the same Facility

, TPS INVOICING COPY

HIS SHIPPING ORDER must be legibly filled in, in link, in Indealible Period, or Carbon, and reduced by the Apert	r in							1
Carbon, and retained by the Agent				Sh	ipper's No			
arrier) UNIVERSAL ENVIRONMENTAL, INC. erved, subject to the classifications and tariffs in effect on the date of this Bill of Lading:	SCAC		//-	Ca	urrier's No		1528	
BENICIA, CA	date _	8/	2497	, fro	m			
e properly described below, in expanent good order, except as noted (contents and condition of contents of pa- nitract as meaning any person or corporation in possession of the property under the contract) agrees to carry- strateon, it is industly agreed, as to each carrier of all or any of saud for property over a or any portion of saud in object to all the conditions not prohibited by law, whether printed or written herein contained (as specified in App (A.A.)) the other of conditions are	ckages unknow to its usual pl outs to destina	vn), maybed, co ace of delivery non, and as to	nsigned, and destine at said destination, a each party at any tir	ed as endicas	ed below which said com	party (the word con otherwise to delive kfy, that every sen	npany being understood throu or to another camer on the rou ace to be performed hereunde	ghout this ite to said or shall be
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emit C.O.D. to:		005		Š	Subject to Section 7 of c	onditions, if the	0.0.0.5	
Idress: ity: State: Zip:		COL \$	AM	shepi with cons T shipi	ment is to be delivered to out recourse on the ignor shall sign the follow he carrier shall not make ment without payment of r lawful charges.	o the consignee consignor, the ing statement; a delivery of this	C. O. D. FEI Prepaid Collect \$	
The day is depresent on Yake of the property is hearby 2 by stated by the shipper to be not exceeding	rity	Charge \$	s Advance	ed	(Signature of cons	anor)	FREIGHT CHA	
s to certify that the apove-named materials are properly classified, described, packaged, marked and old and are in proper condition for transportation according to the appacable regulations of the Department properties	CARDS QUIRED		ONE		PLACARDS SUPPLIED	YES DRIVER'S S	NO - FURNISHED BY	
IIPPER:		CARR	ER: ///					/
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manent post office address of shipper		_ TELER	HONE MU	ABER:		n 3. n	<u> </u>	-

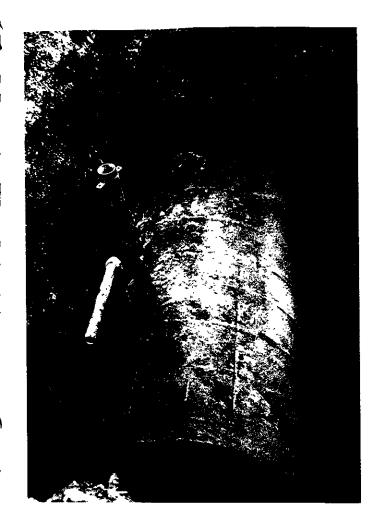
9-BLS-A4 (Rev. 7/95) th and retain this Shipping Order and must sign the Original Bill of Lading.



Diesel Tank Looking North



Diesel Tank Looking East. Staining Due to Cleaning



Gasoline Tank Looking East Note Product Line Hole

Gasoline Tank Looking West Note Vent Line Hole





1181 Quarry Lane, Building 300 Pleasanton, CA 94566 (510) 462-4000 • FAX (510) 462-6283

August 29, 1997

BSK JOB NO. 04-20-0328

IT Corporation 4585 Pacheco Boulevard Martinez, California 94553

Attention:

Mr. Steve Schwartz

Subject:

SUMMARY REPORT

Laboratory and Field Compaction Testing Services

Gill Tract Research

1050 San Pablo Boulevard

Albany, California

REPORT #1 (Period Covered: August 1997)

Gentlemen:

At your request and authorization, we have performed laboratory and field compaction testing services for the subject project.

Our activities were coordinated by Mr. Steve Schwartz who was apprised of the results at the time of testing.

Enclosed are summaries of our daily field activities and results of field compaction and laboratory tests performed during this reporting period.

Respectfully submitted,

BSK & Associates

Alex Y. Eskandari, P.E.

Project Manager

C.E. 38101

AYE:hhc (REPORTS/04200328,R#1)

Enclosures:

Summary of Field Activities and Test Results

Terms and Limitations

Distribution: IT Corporation (2 copies)

SUMMARY REPORT
Laboratory and Field Compaction Testing Services
Gill Tract Research
1050 San Pablo Boulevard
Albany, California
REPORT #1 (Period Covered: August 1997)

BSK Job No. 04-20-0328 August 29, 1997 Enclosure 1 Page 2

NUCLEAR AND SAND CONE FIELD DENSITY TESTS RESULTS

SUMMARY OF FIELD ACTIVITIES

Test No.	Test Location	Depth Below Final Grade (Feet)	Field Moisture (Percent)	Maximum Dry Density (PC)	Field Compaction (Percent)	Required Compaction (Percent)
Excavation	on Backfill (Aggregate Base	- Recycled)				
1	Near Building	0.0	7.7	126.0	99	-
2	8' from the Building	0.0	8.8	126.0	98	-

ACTIVITIES:

Arrived on-site as scheduled and waited for IT personnel for almost an hour before performing tests, but no one came in.

Performed nuclear field density tests on the final lift of the excavation.

Obtained a bulk sample of aggregate base backfill and delivered it to our laboratory for a moisture/density curve determination.

SUMMARY OF LABORATORY TEST DATA

Test:

Moisture/Density Curve Determination

Method:

ASTM D 1557 (6" Mold)

Date Sampled:

August 26, 1997

Date Tested:

August 27, 1997

Sample Location:

Excavation Backfill

Material Description:

Aggregate Base (Recycled)

Maximum Dry Density:

126.0 p.c.f.

Optimum Moisture:

8...5 percent

TECHNICIAN: J. Go

WORK PERFORMED ON: Friday, 08/26/97

TIME: _4 Hours



SUMMARY REPORT
Laboratory and Field Compaction Testing Services
Gill Tract Research
1050 San Pablo Boulevard
Albany, California
REPORT #1 (Period Covered: August 1997)

BSK Job No. 04-20-0328 August 29, 1997 Enclosure 2

Terms and Limitations

Compaction test results reported herein provide an indication of the degree of compaction of materials for specific, prescribed locations but do not necessarily reflect the overall character of the prepared materials. Test results should be considered accurate only at the locations and depths indicated. All results are submitted to the project engineer and representing job inspector for their review and evaluation.

Interpretation of test results as to the adequacy of compacted materials remains solely the responsibility of the project engineer and no engineering evaluations, unless specifically stated, are provided herein as to the adequacy of compacted material.

Respectfully submitted, BSK & Associates



IT Corporation	Client Project ID: UC Berkeley Gill	Date Sampled: 08/15/97		
4585 Pacheco Blvd.	Tract	Date Received: 08/15/97		
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/15/97		
	Client P.O:	Date Analyzed: 08/15/97		

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben -zene	Xylenes	% Recovery Surrogate
79804	Diesel Floor	s	ND	ND	ND	ND	ND	ND	99
79805	Gasoline Floor	S	900,b _J	ND<17	3 0	ND<0.05	6.2	17	111#
79806	Diesel Stkpile 2	S	8.7,g,j	ND	ND	ND	0.011	0.048	98
					-				
			-						

<u> </u>									
	ng Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
otherwise stated; ND means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

[#] cluttered chromatogram, sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment, i) no recognizable pattern

IT Corporation	Client Project ID: UC Berkeley Gill	Date Sampled: 08/15/97
4585 Pacheco Blvd.	Tract	Date Received: 08/15/97
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/15/97
	Client P.O:	Date Analyzed: 08/15/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
79804	Diesel Floor	S	ND	108
79806	Diesel Stockpile 2	S	130,a	101
Reporting L	imit unless otherwise	W	50 ug/L	
stated; ND means not detected above the reporting limit		S	1 0 mg/kg	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

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

^{*}The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?), f) one to a few isolated peaks present; g) oil range compounds are significant, h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



		Clima	AD THE		Date Sampled: 08/15/97		
IT Corporat	rion	Tract	t Project ID: UC	Berkeley Gill			
4585 Pache	co Blvd.				Date Received: 08/15/97		
Martinez, C	A 94553	Clien	t Contact: Steve	Schwartz	Date Extracted: 0	8/15/97	
		Clien	t P.O:		Date Analyzed: 0	8/15/97	
EPA analytical	methods 6010/200.7, 239	9 2 *	Lead	d*	, , , , , , , , , , , , , , , , , , ,		
Lab ID	Client ID	Matrix	Extraction °	L	ead*	% Recovery Surrogate	
79805	Gasoline Floor	S	TTLC		9.7	100	
•					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
				***************************************	******		
					· · · · · · ·		
					,		
						-	
Reporting I	imit unless otherwise	s	TTLC	3.0	mg/kg		
stated; ND me	ans not detected above	w	TTLC	0.00)5 mg/L		
the reporting limit			STLC,TCLP	0.2	mg/L		

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L ⁺Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

[°] EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

^{*} surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

¹⁾ liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Date: 08/15/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample		14CD	Amount			RPD
}	[(#75865) [MS	MSD	Spiked	MS 	MSD	
TPH (gas)	0.000	2.203	2.274	2.03	109	112	3.2
Benzene	0.000	0.200	0.194	0.2	100	97	3.0
Toluene	0.000	0.214	0.206	0.2	107	103	3.8
Ethylbenzene	0.000	0.218	0.216	0.2	109	108	0.9
Xylenes	0.000	0.638	0.642	0.6	106 	107	0.6
 TPH(diesel)	0	314	319	300	105	106	1.3
TRPH TRPH (oil and grease)	0.0	21.2	20.4	 20.8 	102	98	3.8

% Rec. = (MS - Sample) / amount spiked x 100

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR ICP and/or AA METALS

Date: 08/15/97

The second secon

Matrix: Soil

Extraction: TTLC

	Concent	cation]	% Reco	% Recovery		
Analyte	(mg	g/kg,mg/	L)	Amount			RPD	
	Sample	MS	MSD	Spiked 	MS	MSD		
Total Lead	0.0	4.93	4.65	5.0	99	93	6.0	
Total Cadmium	0.0	5.32	5.20	5.0	106	104	2.4	
Total Chromium	0.0	5.32	5.10	j 5.0 j	106	102	4.3	
Total Nickel	0.0	4.90	4.76	5.0	98	95	2.9	
Total Zinc	0.0	5.63	5.29	5.0 	113	106	6.2	
Total Copper	0.00	4.80	4.64	5.0	96	93	3.4	
STLC Lead	 N/A 	N/A	N/A	N/A	N/A	N/A	N/A	

% Rec. = (MS - Sample) / amount spiked x 100



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

		_				_		
Refe	erer	nce	Docu	ıment	No.	52	2599	}
⁵ aa	e 1	of				<u> </u>		′

MCA 3/15/91

Sample Team Membe	No. 1 UCBerkel ers 2 Schwart	tract	Lab De	estination	8 0	Campbell	to:5 ITCorps	acheco
Profit Center (No. 3	-	41		Q		Blud m	lartinez ch
Project Mana	ger ⁴ Schwar	₹z Pro	iect Contac	t/Phone	12		to: ¹⁰ ∓7 Conpc 3. Solve	
Purchase Order (Vo. 6		Carrier/W	/avbill No	13	Report	to: 10 FT Compo	nation
Required Report Da	ate 11 24 hour	-				PER LINE		
Sample ¹⁴ Number	Sample ¹⁵ Description/Type	Date/Time ¹ Collected	⁶ Container ¹ Type	⁷ Sample ¹¹ Volume	p _{re-} 19 servative		Condition on ²¹	Disposal ²² Record No.
Diesel Floor	S₀:د_	4115/97	Brass		Tce			
Gersoline Floor		1	1		1	TPH- GTEL MAN	FIG. PACIFIC	
Diesel Stockpile	2 1		1			T+H-DISTON	F/Ceast FT THE	/!!!!!! a (4110)
				 				18000
Special Instruction	is: ²³							<u> </u>
Possible Hazard Id Non-hazard _J Fla	mmable 🛄 🛮 Skin In	ritant 🔟 Poi	son B 🔟	Unknown		Sample Disposal: ²⁵ Return to Client 🗐 — Disp	posal by Lab	(mos
Turnaround Time I Normal 🔟 Rush 🌂				Level: ²⁷	7	Project Specific (specify):		
1. Relinquished by ² (Signature/Affiliation)	8 ////		ie: <u> </u>		1. Receiv (Signature/Af	and by 29 📈	7	8-15-91
2. Relinquished by / // C Date:			2. Received by [Signature/Affiliation] Comparison Co					
3. Relinquished by (Signature/Affiliation)		Dat Tim	e:		3. Receiv		Date: Time:	
Comments: 29	ICE/I®	PRESERVATION	VOAS OBO ME	CIALSPOTHER				

IT Corporation	Client Project ID: UC Berkeley / Gill	Date Sampled: 08/14/97						
4585 Pacheco Blvd.	Tract	Date Received: 08/14/97						
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/14/97						
	Client P.O:	Date Analyzed: 08/14/97						
Concline Donne (CC C12) Volatile Hudaneschere - Constitute at Mathedatus D. (1971) - 4 0 P. P. Val								

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

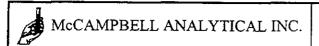
Lab ID	Client ID	Matrix	TPH(g) ⁺	мтве	Benzene	Toluene	Ethylben -zene	Xylenes	% Recover Surrogate
79799	Stockpile Diesel	s	8.1,g,j	ND	ND	ND	0.007	0.027	102
79800	Stockpile Gas	S	24,b.j	ND<0.4	0 036	0 13	0.092	0.58	#
							<u>-u</u>		
					,,,,,				
·									
						,			
Reporti	ng Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
otherwise stated; ND means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

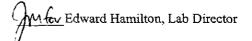


^{*} cluttered chromatogram; sample peak coelutes with surrogate peak



IT Corporation 4585 Pacheco Blvd.		Client P Tract	roject ID: UC Berkeley / Gıll	Date Sampled: 08/14/97 Date Received: 08/14/97		
Martinez, CA	A 94553	Client C	Contact: Steve Schwartz	Date Extracted: (08/14/97	
		Client P	.O:	Date Analyzed: ()8/14/97	
EPA methods m			C23) Extractable Hydrocarbonsomia RWQCB (SF Bay Region) method C		0(3510)	
Lab ID	Client ID	Matrix	TPH(d)		% Recovery Surrogate	
79799	Stockpile Diesel	S	230,a		104	
4						
	mit unless otherwise ans not detected above	W	50 ug/L			
stated; ND means not detected above the reporting limit		S	1.0 mg/kg			

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant, h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L.

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



IT Corporation	Client Project ID: UC Berkeley / Gill	Date Sampled: 08/14/97		
4585 Pacheco Blvd.	Tract	Date Received: 08/14/97		
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/14/97		
	Client P.O:	Date Analyzed: 08/15/97		
	7 - 14			

Lead* EPA analytical methods 6010/200 7, 239.2+ % Recovery Extraction ° Lab ID Client ID Matrix Lead* Surrogate 79799 Stockpile Diesel S TTLC 9.6 99 79800 S Stockpile Gas TTLC 8.2 98 S TTLC 3.0 mg/kg Reporting Limit unless otherwise w stated; ND means not detected above TTLC 0 005 mg/L

STLC,TCLP

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



0.2 mg/L

the reporting limit

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L

*Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC), STLC - CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

Date: 08/13/97-08/14/97 Matrix: Soil

<u> </u>	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#75865)	MS	MSD	Spiked	MS	MSD	
	 				<u> </u>		
TPH (gas)	0.000	1.668	1.678	2.03	82	83	0.6
Benzene	0.000	0.166	0.170	0.2	83	85	2.4
Toluene	0.000	0.182	0.182	0.2	91	91	0.0
Ethylbenzene	0.000	0.172	0.174	0.2	86	87	1.2
Xylenes	0.000	0.532	0.540	0.6	89	90	1.5
TPH(diesel)	 0	328	328	300	109	109	0.1
TFH(dreser)	\ \		J20	300	109		V.1
TRPH (oil and grease)	 N/A 	N/A	N/A	 N/A 	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

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QC REPORT FOR METALS

Date: 08/15/97

Matrix: Soil

Extraction: TTLC

	Concentration			% Recovery			
Analyte	(mg	/kg,mg/l	և)	Amount			RPD
!	Sample	MS	MSD	Spiked	MS	MSD	
<u> </u>	. <u></u>						
Arsenic	0.0	5.0	5.1	5.0	101	102	0.9
Selenium	0.0	4.9	4.9	5.0	99	98	1.0
Molybdenum	0.0	5.2	5.2	5.0	103	104	0.5
Silver	0.0	0.5	0.5	0.5	101	102	0.9
Thallium	0.0	4.8	4.7	5.0	96	95	0.7
Barium	0.0	4.4	4.3	5.0	88	87	1.0
Nickel	0.0	4.9	5.0	5.0	98	99	0.9
Chromium	0.0	5.1	5.1	5.0	101	102	0.4
Vanadium	0.0	4.8	4.8	5.0	95	96	0.7
Beryllium	0.0	5.4	5.4	5.0	108	108	0.5
Zinc	0.0	5.3	5.3	5.0	106	106	0.1
Copper	0.0	4.7	4.6	5.0	93	93	0.2
Antimony	0.0	4.9	4.8	5.0	97	97	0.4
Lead	0.0	4.7	4.8	5.0	95	95	0.5
Cadmium	0.0	5.1	5.1	5.0	102	101	0.5
Cobalt	0.0	5.0	5.0	5.0	99	99	0.2
Mercury	0.000	0.256	0.263	0.25	102	105	2.7
<u></u>	.						

% Rec. = (MS - Sample) / amount spiked x 100



ANALYSIS REQUEST AND X1+410 RCHAIN OF CUSTODY RECORD*

Reference	Document No.	522598
Page 1 of		

mple Team Membe	ers 2 Schearte	,, , ,	Lab De	stination	8 W.S	Campbell	5 FT Corporal (5.5 human 45BF Pac	here M. w
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stockpile-Diese	ر ځي د	ક્ષાલ(૧७	Grass		Zcie	Diesel Bier / Lead		
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urnaround Time Jormai 🗓 Rush 🦫		-	Q <u>C</u>	Level: 2	7 	Project Specific (specify):		
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2. Relinquished by Signature/Affiliation)	1911	Dai Tim			2. Rece		Date Time	
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110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone: 510-798-1620 Fax: 510-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

IT Corporation	Client Project ID: UC Berkeley- Gıll	Date Sampled: 08/20/97
4585 Pacheco Blvd.	Tract	Date Received: 08/20/97
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/20/97
	Client P.O:	Date Analyzed: 08/20/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)⁺	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
79980	Excavation Water	w	7400,a		1200	260	130	370	96
79981	Gas Floor- Southwest	S	300,b,j		0.44	0.63	1.7	1.9	113#
79982	Gas Floor- Northeast	S	1.0,a		0.047	0.017	0.006	0.022	98
									
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			:				, - 21,		
			<u></u>						
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant, b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?, e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sed metro; j) no recognizable pattern.

Edward Hamilton, Lab Director

^{*} cluttered chromatogram; sample peak coelutes with surrogate peak

IT Corporation	Client Project ID: UC Berkeley- Gill	Date Sampled: 08/20/97
4585 Pacheco Blvd.	Tract	Date Received: 08/20/97
Martinez, CA 94553	Client Contact: Steve Schwartz	Date Extracted: 08/20/97
	Client P.O:	Date Analyzed: 08/20/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
79980	Excavation Water	W	760,d	108
	·			
			1	
				-
Reporting Limi ND means r	t unless otherwise stated; not detected above the	w	50 ug/L	
reț	porting limut	S	1 0 mg/kg	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

171

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

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern, c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

Date: 08/20/97

Matrix: Water

	Concent	ration	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	# (79884) 	MS	MSD	Spiked	MS 	MSD	
TPH (gas)	0.0	100.2	102.0	100.0	100.2	102.0	1.8
Benzene	0.0	9.2	9.3	10.0	92.0	93.0	1.1
Toluene	0.0	10.5	10.5	10.0	105.0	105.0	0.0
Ethyl Benzene	0.0	11.1	11.2	10.0	111.0	112.0	0.9
Xylenes	0.0	33.7	34.0	30.0	112.3	113.3	0.9
TPH (diesel)	0	163	162	150	109	108	0.3
TRPH (oil & grease)	0	20.6	20.5	20.8	99	99	0.5

% Rec. = (MS - Sample) / amount spiked x 100

Date: 08/20/97 Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample			Amount			RPD
<u> </u>	(#75873) 	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.000	1.783	1.846	2.03	88	91	3.5
Benzene	0.000	0.182	0.188	0.2	91	94	3.2
Toluene	0.000	0.190	0.192	0.2	95	96	1.0
Ethylbenzene	0.000	0.188	0.190	0.2	94	95	1.1
Xylenes	0.000	0.576	0.586	0.6	96	98	1.7
TPH(diesel)	0	272	264	300	91	88	2.8
TRPH (oil and grease)	0.0	24.0	24.6	23.7	101	104	2.5

% Rec. = (MS - Sample) / amount spiked x 100



ANALYSIS REQUEST AND R CHAIN OF CUSTODY RECORD*

Reference Document	No.	522600
Page 1 of		

CORPORAT	ION						3-		
Project Name/N	vo. 1 UC Berkeley. C	ill Tout Samp	les Shipm	ent Date	7 8\2	20147	Bill to:5	ITCorporal	.:e>
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Sample ¹⁴ Number	Sample ¹⁵ Description/Type	Date/Time 16		Sample ¹⁸		Requested Testin	g ²⁰	Condition on ²¹	Disposal ²² Record No.
Excountion Water	water	gladas	2-40ml 1-liter		HCL Ice	TPHEL, OUS, BTO		. Zironi	
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Comments: ²⁹									