

TRANSMITTAL SHEET

US Army Corps of Engineers Secremento District

DATE: October 9, 1995

DISTRIBUTION:

Department of Environmental Protection Alameda County 1131 Harbor Bay Parkway, Rm. 250 Alameda, CA 94502 Attn: Scott Seery (510) 567-6700

Regional Water Quality Control Board Central Valley Region 3443 Routier Road Sacramento, CA 95827-3098 Attn: **Ton Vorster** (916) 255-3046 Department of Toxic Substances Federal Facilities Unit 10151 Croydon Way, Suite 3 Sacramento, CA. 95827-2106 Attn: Tracie Billington (916) 255-3718

U.S. Army Corps of Engineers Environmental Engineering (Ed Ketchum) SPK-ED-E Sacramento, CA 95814 Attn: Roger Henderson

PROJECT: CON/HTW Removal

CONTRACT NO: DACA 05-94-D-0012, D.O. 0005

INSTALLATION: NIKE Battery 31, San Leandro, California

THE ENCLOSED DOCUMENTS ARE BEING TRANSMITTED TO YOU FOR:

[] COORDINATION [] INCORPORATION [X] REVIEW & COMMENTS [X] INFORMATION

DOCUMENTS ENCLOSED: 1. One copy of CKY, Inc. Site Closure Report for the NIKE Battery 31 CON/HTW site at San Leandro, CA.

REMARKS: Please review the enclosed Site Closure Report. We will look forward to hearing from you regarding formal closure of this site.

If you have any questions, please notify me at once.

FROM: Vicky Henderson for Brenda Pedersen Technical Manager CESPK-ED-EB 1325 J Street Sacramento, CA 95814-2922 Tel: (916)557-6771 / 6628vh Fax: (916) 557-7865 vh\nike31clos

SITE CLOSURE REPORT

REMOVAL OF CONTAINERIZED HAZARDOUS AND /OR TOXIC WASTE AT NIKE BATTERY 31 SAN LEANDRO, CALIFORNIA

Contract No. DACA 05-94-D-0012 Delivery Order No. 0005

Submitted to:

U. S. Army Corps of Engineers
Valley Resident Office
2021 Jefferson Boulevard
West Sacramento, California 95691

Prepared by:

CKY, Inc. Environmental Services 3480 Torrance Boulevard, Suite 100 Torrance, California 90503

CKY Project No. 8808

September 22, 1995

Reviewed by Oblech 12/14/95



C K Y incorporated Environmental Services

September 22, 1995 Project No. 8808

Mr. William R. Cameron U. S. Army Corps of Engineers Valley Resident Office 2021 Jefferson Boulevard West Sacramento, California 95691

5 0CT 12 FAIZ

Subject:

Site Closure Report

Removal of Containerized Hazardous and for Toxic Waste at

Nike Battery 31, San Leandro, California

Contract No. DACA 05-94-D-0012, Delivery Order No. 0005

Dear Mr. Cameron:

CKY, Inc. Environmental Services (CKY) is pleased to submit six copies of the subject site closure report and the field logbook for your review and approval.

The services under this Delivery Order included (1) removal and disposal of tank and piping, (2) sampling of potentially contaminated materials, (3) restoring of the disturbed area, and (4) preparation of a closure report. The work was performed in accordance with the terms and conditions specified in the Delivery Order.

It has been a pleasure to provide our consulting services to the Corps of Engineers. Please feel free to contact CKY if you should have any questions.

Very truly yours,

Timothy Yu, Ph.D., P.E.

Project Director



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This site closure report has been prepared to summarize the removal of containerized hazardous and/or toxic waste at the former Nike Battery 31 site in San Leandro, California.

1.1 PROJECT DESCRIPTION

The Nike Battery 31 site covered, under the scope of work, the Facilities Area and the Launcher Area. Figure 1 shows the site location, and Figures 2 and 3 present site plans of these two areas. The Launcher Area includes two missile vaults which are inactive. The East Bay Regional Parks District is using the Launcher Area as a maintenance facility and storage area. The East Bay Regional Parks Police Station is using the Facilities Area for administration offices.

The work performed under this Delivery Order included:

- Preparation of project work plans.
- At the Facilities Area:
 - Removal and disposal of the concrete masonry unit (CMU) block wall
 - Removal and disposal of the flue
 - Removal and disposal of one concrete aboveground storage tank (AST) saddle (no tank)
 - Excavation, removal, and disposal of contaminated soil under the AST saddle
 - Sampling and analysis of confirmatory soil samples from the excavation
- At the Launcher Area:
 - Removal and disposal of the concrete pump vault
 - Removal and disposal of one 6,000-gallon underground storage tank (UST) under the pump vault
 - Characterization, removal, and disposal of the tank contents
 - Removal and disposal of about 25 feet of underground piping
 - Sampling and analysis of confirmatory soil samples from the excavation
 - Cleaning hydraulic systems at the two missile vaults
 - Disposal of hydraulic fluid and rinsate
- Backfilling excavations with imported clean fill.
- Preparation of this site closure report.

1.2 REPORT ORGANIZATION

As specified in the Delivery Order, this report contains the following:

- A narrative describing site condition, evidence of contaminated soil, sampling activities, removal and disposal of wastes, and materials and methods used to backfill excavations.
- Tables summarizing sampling information and analytical results.
- Figures showing sampling locations.
- Copies of laboratory reports (Appendix A).
- Waste manifests and disposal certificates (Appendix B).
- Permits (Appendix C).
- Progress photographs (Appendix D).

2.1 SUMMARY OF FIELD ACTIVITIES

- Mobilized and performed site reconnaissance (8/2/95).
- Exposed the UST and pumped its contents (8/2/95).
- Removed one 6,000-gallon UST and 25 feet of piping at the Launcher Area (8/3/95).
- Removed the UST saddle (8/7/95).
- Removed the AST saddle, the flue, and the CMU block wall at the Facilities Area (8/7/95).
- Excavated about 1.5 cubic yards of contaminated soil under the AST saddle (8/8/95).
- Collected soil samples from the excavations and stockpiles (8/8/95).
- Cleaned the missile vaults. Removed and disposed of the hydraulic fluid and rinsate (8/14/95 8/16/95).
- Loaded and hauled contaminated soil to Forward Landfill (8/21/95).
- Backfilled and compacted excavations. (8/21/95 8/22/95).
- Loaded and hauled pipes off site for scrap (8/23/95).

2.2 EXPOSING TANKS

CKY mobilized on August 2, 1995, and started surveying the site to locate the UST. Locations for the tank and piping were carefully evaluated to prevent damage to existing utilities during the excavation activities. Once identified, the tank location, dimension, and ancillary equipment were marked with a marking paint.

The UST and piping were exposed using a backhoe. The UST was almost full with water. Following the exposure, the liquid in the piping was drained into the tank. Then, the piping was flushed with water from a high pressure washer and the rinsate was drained into the tank. After the contents were pumped to an Erickson's vacuum truck, the tank was then flushed with water from a pressure-washer until the combustible vapor concentration was less than 10% of the lower explosion limit

(LEL). The tank contents containing rinsate were again pumped into the vacuum truck and transported to Gibson Environmental in Redwood City, California, for disposal/recycling.

2.3 REMOVAL OF TANKS AND PIPING

The piping was disassembled and cut into pieces after flushing. The UST and most of the piping were removed on August 3, 1995 under the supervision of Mike DeKlotz, CKY Staff Scientist and Site Supervisor. About 8 feet of piping running next to shrubs were removed while backfilling to protect the shrubs from potential cave-in. Scott Seery of the Alameda County Health Agency (Alameda County) inspected removal activities and identified sample locations. See Section 2.5 (Sampling and Analysis) for sampling details. Soil samples were collected in accordance to the UST closure permit provisions imposed by the Alameda County (see Appendix C).

Upon removal of contents, the atmosphere inside the tank was monitored for combustible vapors using an explosimeter, which was calibrated against methane. The appurtenances were removed from the tank and openings were capped, except those necessary to inert the tank. The tank was inerted by using 250 pounds of dry ice to lower the oxygen level below five percent. The explosimeter probe was inserted into the tank without touching the surface of the walls to check the combustible vapor concentrations. The UST was removed after combustible vapor concentration was detected at 0% of LEL and oxygen level fell down to 1.6%.

Groundwater was not encountered at the UST excavation.

No obvious holes were found at the bottom of the UST removed. However, gray color stained soil, which had a distinctive petroleum hydrocarbon odor, was found at the walls and the bottom of the UST excavation.

The AST saddle, the flue, and the CMU block wall at the Facilities Area were removed on August 7, 1995. About one foot of contaminated soil under the AST saddle was excavated on August 8, 1995. Additional contaminated soil was not removed because the soil was highly compacted and there was little room to operate the backhoe.

2.4 CLEANING MISSILE VAULTS

The two missile vaults contained several hydraulic systems that were used to lift missiles into position and open doors. It was necessary to remove the hydraulic fluid in the systems, particularly the piping, to eliminate the potential for this fluid to impact the soil and groundwater at these locations.

Hydraulic fluid was removed by dismantling the piping at joints and draining to the lowest point. Then, the piping was flushed with diluted PenetoneTM solution from a pressure washer. Hydraulic fluid and rinsate were collected in drums. The drummed liquid was pumped into a vacuum truck and transported by Erickson to Enviropur West Corporation in Patterson, California, for disposal/recycling.

2.5 SAMPLING AND ANALYSIS

Soil below the excavations were sampled on August 8, 1995. Sampling information is provided in Table 1; analytical results are summarized in Tables 2. Laboratory analytical reports are attached as Appendix A.

One soil sample was collected from the each wall and two soil samples were collected from the bottom of the UST excavation (see Figure 4). These samples were analyzed for total petroleum hydrocarbon (TPH) as diesel (Modified EPA Method 8015); and benzene, toluene, ethyl benzene, and total xylenes (EPA Method 8020).

Two soil samples were collected from the bottom of the AST saddle shallow excavation. These samples were analyzed for TPH as diesel; benzene, toluene, ethyl benzene, and total xylenes; and halogenated volatile organics (EPA Method 8010).

Soil sample locations were identified by Scott Seery of the Alameda County or approved by Brenda Pedersen of the U. S. Army Corps of Engineers (USACE). Samples were collected and shipped by Mike DeKlotz to CKY, Inc. Analytical Services (CKY Lab) in Torrance for analyses. Laboratory reports are included in Appendix A and the results are summarized in Table 2. Note that the majority of soil samples collected at the excavations contained elevated concentrations of TPH as diesel.

2.6 WASTE DISPOSAL

The tanks and piping were hauled by Erickson to Erickson's facility in Richmond for scrap. Liquid waste consisting of UST contents and rinsate were hauled by Erickson to Gibson Environmental in Redwood City, California, for disposal/recycling. Hydraulic fluid and rinsate generated by cleaning the hydraulic vaults were hauled by Erickson to Enviropur West Corporation in Patterson, California, for disposal/recycling.

Approximately 52 cubic yards (3 truckloads) of excavated soil were hauled by Manley and Sons Trucking, Inc. to Forward Landfill (Class II) in Manteca, California, on August 21, 1995, for disposal. The landfill accepted the material upon review of the analytical results.

Waste manifests and certificates of disposal or acceptance by the treatment or disposal facilities are included in Appendix B.

2.7 SITE RESTORATION

On August 17, 1995, David Woehl of the USACE authorized CKY to backfill the excavations after lining them with visqueen to segregate clean fill with contaminated soil that still remained in the excavations. The UST excavation at the Launcher Area was backfilled to nearly the top with clean sand from a local supplier and compacted. The remaining void, about 8 inches deep, was filled with Class II aggregate base material. The AST saddle overexcavation at the Facilities Area was backfilled with only Class II aggregate base material. Fill materials were placed in loose lifts in layers not exceeding 12-inch loose thickness for compaction. Each loose lift was compacted prior to the successive lift being placed. Backfill was compacted to at least 90 percent at ±2 percent of optimum moisture content. Site restoration photographs are included in Appendix D.

TABLE 1
SAMPLING INFORMATION

Sample ID	Date Sampled	Matrix	Sample Location
SL'-T1-EXC'N BOTTOM-W	8/8/95	Soil	Launcher area, UST excavation, bottom, west
SL'-T1-EXC'N BOTTOM-E1	8/8/95	Soil	Launcher area, UST excavation, bottom, east
SL'-T1-EXC'N BOTTOM-E2	8/8/95	Soil	QC sample ⁽¹⁾ of SL'-T1-EXC'N BOTTOM-E1
SL'-T1-EXC'N-N-WALL	8/8/95	Soil	Launcher area, UST excavation, wall, north
SL'-T1-EXC'N-E-WALL	8/8/95	Soil	Launcher area, UST excavation, wall, east
SL'-T1-EXC'N-S-WALL	8/8/95	Soil	Launcher area, UST excavation, wall, south
SL'-T1-EXC'N-W-WALL	8/8/95	Soil	Launcher area, UST excavation, wall, west
PS-1'-N-END	8/8/95	Soil	Facilities area, bottom of excavation, north
PS-1'-S-END	8/8/95	Soil	Facilities area, bottom of excavation, south
SP2-EAST	8/8/95	Soil	Stockpile #2, center
SP1-NORTH	8/8/95	Soil	Stockpile #1, north portion
SP1-MIDDLE	8/8/95	Soil	Stockpile #1, middle portion
SP1-SOUTH1	8/8/95	Soil	Stockpile #1, south portion
SP1-SOUTH2	8/8/95	Soil	QC sample of SP1-SOUTH1

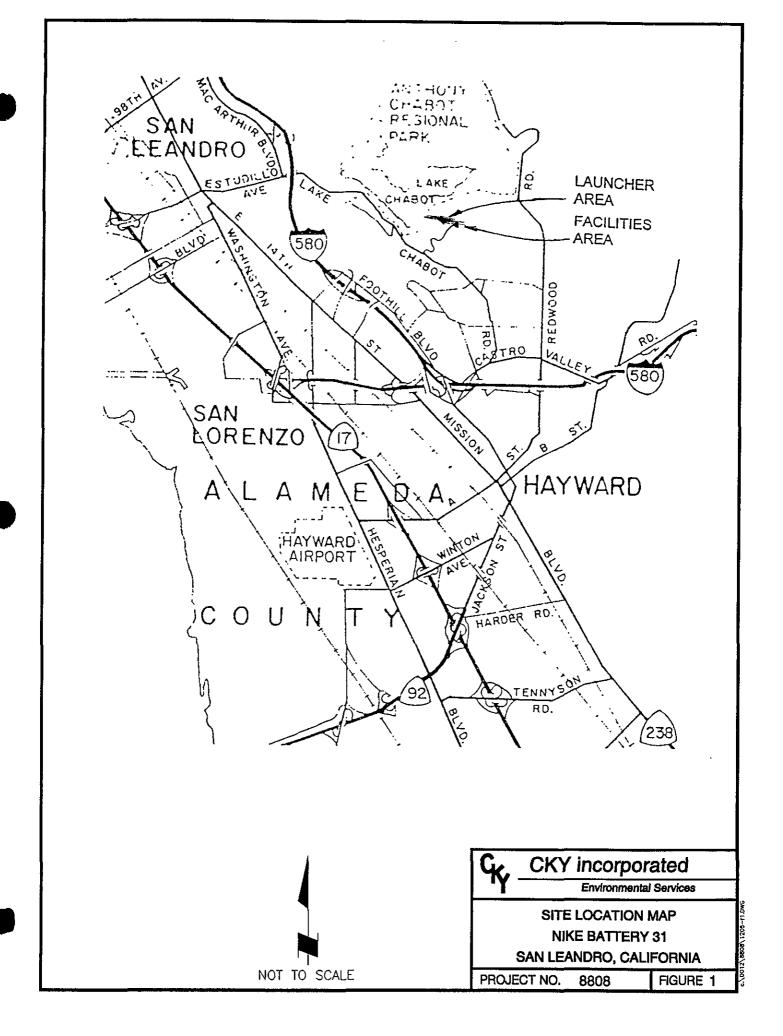
⁽¹⁾ Duplicate sample for quality control (QC), sent to the Contract Laboratory (CKY Lab).

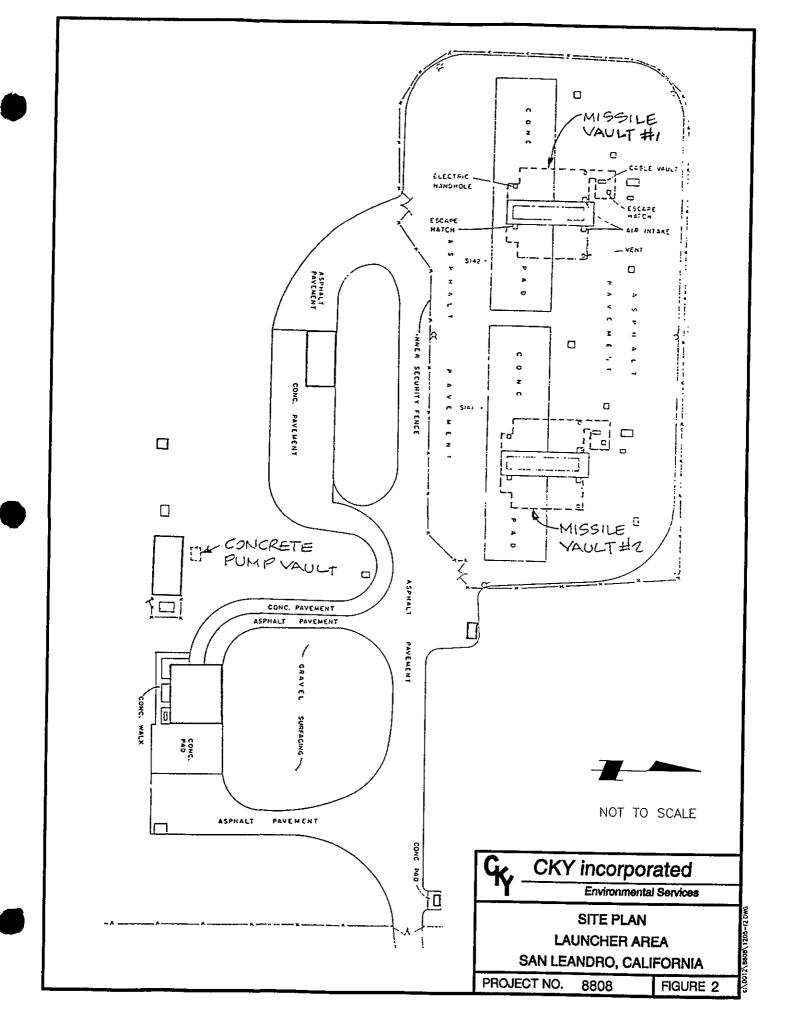
TABLE 2
ANALYTICAL RESULTS FOR SOIL SAMPLES

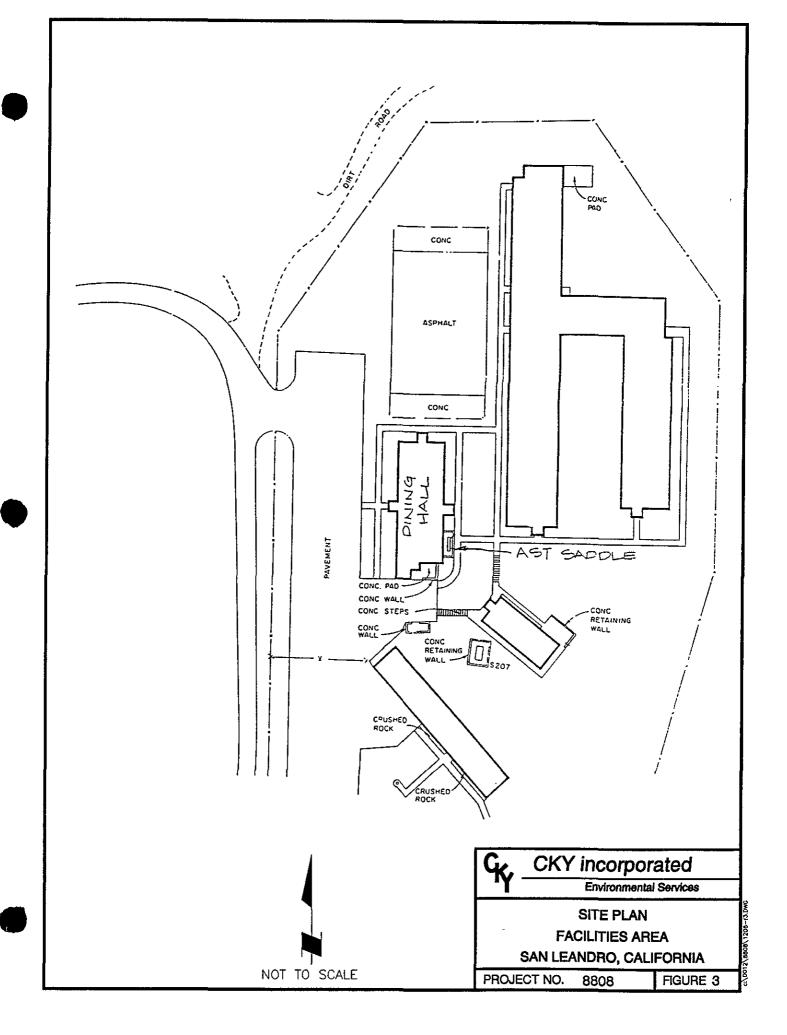
	Date	TPH AS	HYDRO-	BENZENE	TOLUENE	ETHYL-	TOTAL	Halogenated
Sample ID	Sampled	DIESEL	CARBON			BENZENE	XYLENES	Volatile Organics
		(mg/kg)	RANGE	(µg/kg)	(µg/kg)	(μg/kg)	(µg/kg)	(µg/kg)
EPA METHOD		8015M		8020	8020	8020	8020	8010
SL'-T1-EXC'N BOTTOM-W	8/8/95	92	C ₁₀ - C ₂₄	ND ⁽¹⁾	ND	ND	ND	_ (2)
SL'-T1-EXC'N BOTTOM-E1	8/8/95	6000	C ₉ - C ₂₄	ND	ND	ND	ND	_
SL'-T1-EXC'N BOTTOM-E2	8/8/95	5800	C ₉ - C ₂₄	ND	ND	ND	ND	_
SL'-T1-EXC'N-N-WALL	8/8/95	4400	C ₉ - C ₂₄	ND	ND	ND	ND	_
SL'-T1-EXC'N-E-WALL	8/8/95	5300	C ₉ - C ₂₄	ND	ND	ND	ND	_
SL'-T1-EXC'N-S-WALL	8/8/95	14000	C ₉ - C ₂₄	ND	ND	ND	ND	
SL'-T1-EXC'N-W-WALL	8/8/95	3000	C ₁₀ - C ₂₃	ИD	ND	ND	ND	
PS-1'-N-END	8/8/95	1500	C ₁₃ - C ₂₄	ND	ND	ND	ND	ND
PS-1'-S-END	8/8/95	1900	C ₁₀ - C ₂₄	ND	ND	7.9	52	ND
SP2-EAST	8/8/95	830	C ₉ - C ₂₄	ND	ND	ND	ND ,	
SP1-NORTH	8/8/95	40	C ₁₅ - C ₂₄	ND	ND	ND	ND	
SP1-MIDDLE	8/8/95	400	C ₉ - C ₂₄	ND	ND	ND	ND	
SP1-SOUTH1	8/8/95	2700	C ₉ - C ₂₄	ND	ND	ND	ND	-
SP1-SOUTH2	8/8/95	79	C ₁₄ - C ₂₄	ND	ND	ND	ND	-

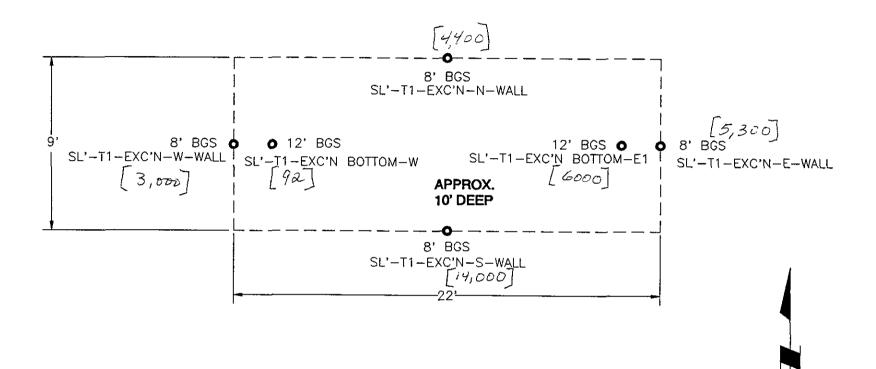
⁽¹⁾ ND = Not detected at or above the method detection limits. See Appendix A, Laboratory reports.

^{(2) — =} Not analyzed.









[yppm TPH d]
LEGEND

TRAILER BUILDING

SAMPLE LOCATION

BGS BELOW GROUND SURFACE

TANK EXCAVATION

Gky

CKY incorporated

NOT TO SCALE

Environmental Services

SAMPLE LOCATION MAP LAUNCHER AREA SAN LEANDRO, CALIFORNIA

PROJECT NO.

8808

FIGURE 4

APPENDIX A LABORATORY REPORTS



CKY incorporated Analytical Laboratories

Date: 08-17-1995 CKY Batch No.: 95H051

Attn. Dan Schottlander

CKY Environmental Services 3480 Torrance Blvd., Suite 100 Torrance, CA 90503

Subject:

Laboratory Report Project: San Leandro #8808

Enclosed is the Laboratory report for samples received on 08/09/95. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
SL'-T1-EXC'NBOTTOM-W	H051-01	Soil	EPA M8015
SL'-T1-EXC'NBOTTOM-E1	H051-02	Soil	EPA 8020 EPA M8015
SL'-T1-EXC'NBOTTOM-E2	H051-03	Soil	EPA 8020 EPA M8015
SL'-T1-EXC'-N-WALL	H051-04	Soil	EPA 8020 EPA M8015
SL'-T1-EXC'-E-WALL	H051-05	Soil	EPA 8020 EPA M8015
SL'-T1-EXC'-S-WALL	H051-06	Soil	EPA 8020 EPA M8015
SL'-T1-EXC'-W-WALL	H051-07	Soil	EPA 8020 EPA M8015
PS-1'-N-END PS-1'-S-END SP2-EAST	H051-08 H051-09 H051-10	Soil Soil Soil	EPA 8020 Hold Hold EPA M8015
SP1-NORTH	H051-11	Soil	EPA 8020 EPA M8015
SP1-MIDDLE	H051-12	Soil	EPA 8020 EPA M8015 EPA 8020

Sample ID	Control No.	Matrix	Analysis	
SP1-SOUTH1	H051-13	Soil	EPA M8015 EPA 8020	
SP1-SOUTH2	H051-14	Soil	EPA M8015 EPA 8020	

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

EPA METHOD M8015 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT: CKY Environmental Services DATE COLLECTED: 08/08/95 PROJECT: San Leandro #8808 DATE RECEIVED: 08/09/95 rch No.: 95H051 DATE EXTRACTED: 08/10/95 WATRIX: SOIL DATE ANALYZED: 08/16/95

		RESULT	H-C	% REC	OVERY	DL	MOIST	MDL
SAMPLE ID	CONTROL NO	(mg/kg) RANGE	SURR1	SURR2	FACTOR	(%)	(mg/kg)
SL'-T1-EXC'NBOTTOM-W	H051-01	92	C10-C24	83	82	1	16.2	2.39
SL'-T1-EXC'NBOTTOM-E1	H051-02	6000	C9-C24	126	124	10	17.3	24.2
SL'-T1-EXC'NBOTTOM-E2	H051-03	5800	C9-C24	113	119	10	16.7	24
SL'-T1-EXC'-N-WALL	H051-04	4400	C9-C24	DO	po	50	11.8	113.5
SL'-T1-EXC'-E-WALL	H051-05	5300	C9-C24	DO	DO	50	13.9	116
SL'-T1-EXC'-S-WALL	H051-06	14000	C9-C24	DO	105	20	18.4	49
SL'-T1-EXC'-W-WALL	H051-07	3000	C10-C23	DO	DO	50	15.7	118.5
SP2-EAST	H051-10	830	C9-C24	92	82	10	16.0	23.8
SP1-NORTH	H051-11	40	C15-C24	83	100	2	7.7	4.34
SP1-MIDDLE	H051-12	400	C9-C24	104	101	5	8.3	10.9
SP1-SOUTH1	H051-13	2700	C9-C24	88	87	2	11.7	4.54
SP1-SOUTH2	H051-14	79	C14-C24	89	88	2	8.8	4.38
DBLK1S	DSH013SB	ND	NA	84	82	ī	NA	2

60-140 55-150

QC LIMIT:

SURR1 : Bromobenzene SURR2 : Hexacosane

MDL

: Method Detection Limit

CKY QUALITY CONTROL DATA SPIKE/SPIKE DUPLICATE ANALYSIS

CLIENT: CKY Environmental Services

PROJECT: San Leandro #8808

METHOD: EPA M8015

MORIX: SOIL SOIL 11.8

BATCH NO.: SAMPLE ID: CONTROL NO.:

95H051 SL'-T1-EXC'-N-WALL H051-04 DATE RECEIVED: 08/09/95 DATE EXTRACTED: 08/10/95 DATE ANALYZED: 08/16/95

ACCESSION:

95H051

SAMPLE SPIKE MS SPIKE MSD CONC ADDED CONC MS ADDED CONC MSD Parameter (mg/kg)(mg/kg) % REC (mg/kg) (mg/kg)% REC (mg/kg) % RPD DIESEL 4400 283 3600 NA+ 283 3900 NA +NA+

QC LIMIT:

60-140

60-140

40

NOTE: + The QC sample and MS/MSD were analyzed at DF=50 due to high diesel concentration in the sample. No spike recovery was achieved.

CKY QUALITY CONTROL DATA LABORATORY CONTROL SAMPLE ANALYSIS

CKY Environmental Services San Leandro #8808 EPA M8015 CLIENT:

PROJECT:

METHOD:

MATRIX: SOIL

BATCH NO.: 95H051 DATE RECEIVED: DATE EXTRACTED: NA

SAMPLE ID: CONTROL NO.: LCS1S DSH013SL 08/10/95 08/16/95 DATE ANALYZED:

ACCESSION:

95H051

TRUE VALUE FOUND VALUE LCS RECOVERY PARAMETER (mg/kg) (mg/kg) (응) DIESEL 250 227 91

QC LIMIT: 60-140

)	CLIENT: CKY Environment PROJECT: San Leandro #8 BATCH NO: 95H051 SAMPLE ID: SL'-T1-EXC'NBC CONTROL NO: H051-01 MOISTURE: 16.2	8808 DATE REC	SOIL
	PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	RESULTS (ug/kg) ND ND ND ND ND ND	MDL (ug/kg) 298 298 298 895
	SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 102	QC LIMIT 60-140
	######################################		

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	CKY Environmental Service San Leandro #8808 95H051 SL'-T1-EXC'NBOTTOM-E1 H051-02 17.3	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	08/08/95 08/09/95 NA 08/15/95 SOIL 50
		_======================================	=======
	_		

PARAMETERS	RESULTS (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	302 302 302 302 907
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 86	QC LIMIT 60-140

CLIENT: CKY Environmental Se PROJECT: San Leandro #8808 BATCH NO.: 95H051 SAMPLE ID: SL'-T1-EXC'NBOTTOM-E CONTROL NO.: H051-03 MOISTURE: 16.7	DATE RECEIVED DATE EXTRA	VED: 08/09/95 CTED: NA ZED: 08/15/95 SOIL					
PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	RESULTS (ug/kg) ND ND ND ND ND ND	MDL (ug/kg) 300 300 300 900					
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 102	QC LIMIT 60-140					

CLIENT: CKY Environmental PROJECT: San Leandro #8808 BATCH NO.: 95H051 SAMPLE ID: SL'-T1-EXC'-N-WALL CONTROL NO.: H051-04 MOISTURE: 11.8	Services DATE COLLE DATE RECEI DATE EXTRA DATE ANALY MATRIX: DILUTION F	VED: 08/09/95 CTED: NA ZED: 08/15/95					
PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	RESULTS (ug/kg) ND ND ND ND ND ND ND	MDL (ug/kg) 283 283 283 850					
SURROGATE PARAMETER Bromofluorobenzene ================================	% RECOVERY 105	QC LIMIT 60-140					

)	PROJECT: San BATCH NO.: 95H0	-T1-EXC'-E-WALL L-05		DATE DATE DATE MATRI	COLLECTED: RECEIVED: EXTRACTED: ANALYZED: X: CION FACTOR:	08/08/95 08/09/95 NA 08/15/95 SOIL 1			
	PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes			RESULTS (ug/kg) ND ND ND ND ND		MDL /kg) 5.8 5.8 5.8 17			
	SURROGATE PARAMET Bromofluorobenzen		010 -	RECOVERY 92		IMIT			

MDL: Method Detection Limit

)	CLIENT: CKY Environments PROJECT: San Leandro #880 BATCH NO.: 95H051 SAMPLE ID: SL'-T1-EXC'-S-WA CONTROL NO.: H051-06 % MOISTURE: 18.4	DATE RECI	SOIL
	PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes SURROGATE PARAMETER Bromofluorobenzene	RESULTS (ug/kg) ND ND ND ND ND ND ND ND 66	MDL (ug/kg) 306 306 306 919 QC LIMIT 60-140
	=======================================		

CLIENT: CKY Environmental Serving PROJECT: San Leandro #8808 BATCH NO.: 95H051 SAMPLE ID: SL'-T1-EXC'-W-WALL CONTROL NO.: H051-07 MOISTURE: 15.7	DATE RECE	SOIL
PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	RESULTS (ug/kg) ND ND ND ND ND ND ND	MDL (ug/kg) 5.9 5.9 5.9
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 76	QC LIMIT 60-140

MDL: Method Detection Limit

=========	=======================================		
CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	CKY Environmental Services San Leandro #8808 95H051 SP2-EAST H051-10 16.0	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	08/08/95 08/09/95 NA 08/15/95 SOIL 50

PARAMETERS	RESULTS (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND ND	298 298 298 298 893
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 119	QC LIMIT 60-140
	±4.2	00-140

==============			
AT ****			=======
CLIENT:	CKY Environmental Services	DATE COLLECTED:	00/00/00
	Sur ButtionWeller Del Arcep	DETE COUPECIED:	08/08/95
PROJECT:	San Leandro #8808	DATE RECEIVED:	22/22/22
		DAIR KECEIVED:	08/09/95
BATCH NO.:	95H051	בינות א מתהא בינות עמ	ATT.
	<u> </u>	DATE EXTRACTED:	NA
SAMPLE ID:	SP1-NORTH	DATE ANALYZED:	
		DAID ANALYZED:	08/14/95
CONTROL NO.:	H051-11	MATRIX:	
		LITAL KIV:	SOIL
% MOISTURE:	7 7	DITTERSON PRODUCT	
· ····································	* • *	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	5.4 5.4 5.4 16
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 67	QC LIMIT 60-140

MDL: Method Detection Limit

EPA METHOD 8020

CLIENT: PROJECT: BATCH NO.:	CKY Environmental Services San Leandro #8808 95H051	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED:	08/08/95 08/09/95 NA		
SAMPLE ID: CONTROL NO.: % MOISTURE:	SP1-MIDDLE H051-12 8.3	DATE ANALYZED: MATRIX: DILUTION FACTOR.	08/14/95 SOIL		

	DINGILON	PACION: 1
=======================================		
DADA MEMER A	RESULTS	\mathtt{MDL}
PARAMETERS	(ug/kg)	(ug/kg)
Dongono	3 TOP	_

	(~3) 1.3/	(49/29/
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	5.5 5.5 5.5 16
SURROGATE PARAMETER	% RECOVERY	OC 1.TMTT

Bromofluorobenzene 100 60-140

MDL: Method Detection Limit

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	CKY Environmental San Leandro #8808 95H051 SP1-SOUTH1 H051-13 11.7		DATE RECE	LECTED: EIVED: RACTED: LYZED:	08/08/95 08/09/95 NA 08/14/95 SOIL 1
PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	3	RESUL (ug/k ND ND ND ND	(g) () () ()	 (ug/	DL (kg) 5.7 5.7 5.7

% RECOVERY

83

QC LIMIT

60-140

MDL: Method Detection Limit

SURROGATE PARAMETER

Bromofluorobenzene

EPA METHOD 8020

============			
CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	CKY Environmental Services San Leandro #8808 95H051 SP1-SOUTH2 H051-14 8.8	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	08/08/95 08/09/95 NA 08/14/95 SOIL

PARAMETERS	RESULTS (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	5.5 5.5 5.5 16
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 95	QC LIMIT 60-140

MDL: Method Detection Limit

% MOISTURE: NA DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	5.0 5.0 5.0 15
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 104	QC LIMIT 60-140

MDL: Method Detection Limit

CKY QUALITY CONTROL DATA SPIKE/SPIKE DUPLICATE ANALYSIS

CLIENT: PROJECT:

CKY Environmental Services San Leandro #8808

METHOD: MATRIX:

EPA 8020

OISTURE:

SOIL

BATCH NO.: SAMPLE ID: CONTROL NO.:

95H051 SP1-NORTH H051-11

DATE RECEIVED: DATE EXTRACTED: 08/09/95 NA

DATE ANALYZED:

08/14/95

ACCESSION:

95H051

PARAMETER Benzene Toluene Ethylbenzene Total Xylenes	SAMPLE CONC (ug/kg) ND ND ND ND ND	SPIKE ADDED (ug/kg) 271 271 271 813	MS CONC (ug/kg) 241 259 238 640	MS % REC 89 96 88 79	SPIKE ADDED (ug/kg) 271 271 271 813	MSD CONC (ug/kg) 248 246 247 682	MSD % REC 92 91 91 84	% RPD 3 5 3 6
QC LIMIT:				60-140		,	60-140	40

CKY QUALITY CONTROL DATA LABORATORY CONTROL SAMPLE ANALYSIS

CKY Environmental Services San Leandro #8808 EPA 8020 CLIENT:

PROJECT:

METHOD: MATRIX: SOIL

DISTURE: NA

BATCH NO.: SAMPLE ID: CONTROL NO.: 95H051 LCS1S/LCS1SD VAH1407SL/C DATE RECEIVED: NΑ DATE EXTRACTED: DATE ANALYZED: NA

08/14/95

ACCESSION: 95H051

PARAMETER	SAMPLE CONC (ug/kg)	SPIKE ADDED (ug/kg)	LCS CONC (ug/kg)	LCS % REC	SPIKE ADDED (ug/kg)	LCSD CONC (ug/kg)	LCSD % REC	% RPD
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND	50.00 50.00 50.00 150	49.80 53.80 52.00 153	100 108 104 102	50.00 50.00 50.00 150	48.60 51.30 51.10	97 103 102 102	2 5 2 0
OC LIMIT.				E0 40m				

QC LIMIT: 70-125 70-125 40



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S GONTON NO	•		SAMPLE RE	ECEIPT FORM			
CONTROL NO.	95H0 (*/			•		DATE	7 6
\ 	CKY ES					TIME	08-9-9
PROJECT	JOB # 8.808		•			RECIPIENT	C. 71ANG
SAMPLE TRANSPORT	TATION TO CKY LABO	DRATORY:	BY	ON(DATE)	AT(TIME)		
PICKED-UP BY CKY					AT(TIME)	FROM(SITE/CO.)	COMMENTS
SAMPLE TRANSPORT PICKED—UP BY CKY DELIVERED BY CLIEN SHIPPED/AIRBILL NO					Ī		
SHIPPED/AIRBILL NO		6884766824	M DEKLOTZ	8-8-95	1	SAN LEANDPO C	d :
	KAGING/SEALING UP	ON RECEIPT:	NO CONTAINER		DAMAGEO	·	
CONTAINER:		NSIDE TEMPERATURE:			DAMAGED	NOT SEALED	SEALE
CONTAINER: COOLER BOX OTHER: SAMPLE DOCUMENTA	PACKAGING	TYPE	SUFFICIENCY	CUSTODY SEAL	·	LOCATION	NUMBER
BOX	INSULATION:		SOFFICIENCY	✓ INTACT	DAMAGED	FRONT CLOSCYLE	
OTHER:		BLUE (REGULA		NAME:	 	REAR CLOSERE	1
· [PACKING MATERIAL:	PAPUA		DATE:	8-8-95		
SAMPLE DOCUMENTA				TIME:			
SAMPLE LOG-IN:	11011/01//111-01-01		NONE	HANDCARRIED	✓ENCLOSED	FAXED	SEALE
SAMPLE CUSTODY SE	· A 1	CRITERIA		COMMENTS		DISCREPA	
CONTAINER TYPE/MAT		EVERY SAMPLE	ok			0,0011217	1101
SAMPLE AMOUNT	ENIAL	APPROPRIATE					
SAMPLE PRESERVATION	N/HOLDING TIME	ENOUGH					
HEADSPACE/BUBBLES		SUFFICIENT ZERO/NONE					
SAMPLE LABEL INFORM		SUFFICIENT				. /	
CHAIN-OF-CUSTODY		SUFFICIENT					
SAMPLE INFO.:	SAMPLE ID	DATE	TIME	/			
INDIVIDUAL SAMPLE CO		NONE		SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
SAMPLE NUMBER			PLASTIC BAG	CAN	OTHER(SPECIFY):	SEALED
	CLIENT ID		DISCREPANCY			ACTION	
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CLIENT SERVICES COPY	/ RECEIVED BY	Cleitia	- 8/9	DATE			
			/	DATE		TIME	

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CLIENT								- 7		Y REC						····								0 3	
NAME: CK4 Inc.	Envivor	meni	tal s	Service											*					СКУ	l' ince	arnof	ated		
ADDRESS: 3480 TZ	mance	Blud.	, #. 10	٥	_	\ \ \	DATE:	8	8/95	W1131 ()	*10				À.	┫		Ü		Analy	ytical	Labo	rato	ries	
Tarram	ce, CA	9050	3		-	`*	PAGE		OF[1.	7	4	Ų		630 M Torrar			0503		
PHONE NO. (310) 792 -	-3728 FA	X NO.	510)79	2-3726	٤ /	, 		ۇ ئ										I	•	Tel: 3	310-6	18-88	89	\mathcal{I}	2
PROJECT NAME: 5AN SEND REPORT TO: MIC	LEANU KO	- 1)/C	A 05-	94-D	-06/2/	DELL	DENG DENG	CRV C	FR 00	05				×	ų,	£.		-	ı i	Fax: 3	310-6	18-05	18	7	
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Michael De	Klotz	nu	chae	l Del	llos	 -	- 1	NUSH :		J		<u>5</u> -5	50	202	8	24	52	CAM Metals						5 V	أسمده الما
SAMPLE NUMBER	SAMPI DATE/	ING	Am	PRESER-	CON	AINER		MPLE			418.1	M8015	8010/601	8020/602	90	8240/624	270/6	¥							
SL-T1-EXC'N BOTTOM-		3/95	8:30	VATIVE	SIZE/	O BEF		ATER	SOIL	OTHER	14	X				*	∞	Ö	r			<u> </u>	·	<u> </u>	
SL-T1-EXC'NBOTTOM-		<u> </u>	8:36		 	WER	 		X	<u> </u>				X					_			\vdash		<u> </u>	
SL-T1-EXCH BOTTOM-	F2		8:37			1-	 -	,	$\frac{1}{x}$	 	-	X		X										-	
SL'-T1- EXCN- N-WA			8:45			1	 		X					$\frac{2}{x}$				<u> </u>	<u> </u>				\dashv	 	
SL-T1- EXCN-E-WA	u		8:50		 	 	 		X					숛		\dashv			-						
SL-TI- EXCN-S+WA	u ·	Į	8:55			 	7.00	स्थान कार्य रूप		. arras	y ka	\frac{1}{2}	-	$\hat{\mathbf{x}}$		\dashv		-						-}	
SL-T1 - EXC'N-W-W	ne		9:00	+								(X)	-	$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$		-			_		-	\rightarrow			_
PS-1'-N-END			10:30						×	 -		 	지		4		H.A.	6	,	D		-	一	-+	_
PS-1-S-END			10:35						×	 		×	\frac{1}{2}	$\frac{\hat{\lambda}}{\chi}$	귈		Н	0	7	D,		\rightarrow	\dashv		
SP2-EAST			10:45						X			ᅱ	^	又	\dashv	\dashv		_		<i>D</i> ,		\dashv	\dashv	\dashv	
SPI-NORTH.			10:56						×			K	1	X	_	1					\neg	-	+	-	
SPI-MIDDLE	*		10:53						×			×	\neg	x	一							\dashv	\dashv		_
SPI-SOUTHI			11:00	_					×			$ \overline{\lambda} $	一	X	_	-			- ""			\dashv	+		_
SPI-SOUTHZ			11:05		V		/		X			X		X	7	1						-	_	_	 -
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CKY Inc. Env'l ser	vs. 17pm	_	C	Ky I	INC.	0	1930)									-	-							

Storage/Disposal of Samples: Sample will be stored at CKY for 30 days at no charge and at \$10/sample/month thereafter. Disposal of sample by the Laboratory will be charged at \$10/sample.



CKY incorporated **Analytical Laboratories**

08-24-1995 Date: CKY Batch No.: 95H051A

Attn. Dan Schottlander

CKY Environmental Services 3480 Torrance Blvd., Suite 100 Torrance, CA 90503

Subject: Additional Laboratory Report Project: San Leandro #8808

Enclosed is the additional laboratory report for samples received on 08/09/95. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
PS-1'-N-END	H051-08	Soil	EPA M8015 EPA 8020 EPA 8010
PS-1'-S-END	H051-09	Soil	EPA M8015 EPA 8020 EPA 8010

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Panj Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

EPA METHOD M8015 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

CLIENT: CKY Environmental Services DATE COLLEGE PROJECT: San Leandro #8808 DATE RECEIVED DATE RECEIVED DATE EXTRAGRACION DE EX DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 08/08/95 08/09/95 08/21/95 08/23/95 PROJECT: BYTCH NO.: MERIX: SOIL

SAMPLE ID	CONTROL NO	RESULT (mg/kg)	H-C RANGE	% RECC SURR1	VERY SURR2	DL FACTOR	MDL (mg/kg)
PS-1'-N-END	H051-08	1500	C13-C24	DO	124	5	10
PS-1'-S-END	H051-09	1900	C10-C24	78	111	2	4
MBLK1S	DSH030SB	ND	N.A.	112	103	1	2

OC LIMIT: SURR1 : 60-140 55-150

: Bromobenzene SURR2 : Hexacosane

CKY QUALITY CONTROL DATA SPIKE/SPIKE DUPLICATE ANALYSIS

CLIENT:

CKY Environmental Services San Leandro #8808 EPA M8015

PROJECT: METHOD:

TRIX: OISTURE: SOIL 11.3

BATCH NO.: SAMPLE ID: CONTROL NO .: 95H051A MIR-13-S-272 H109-01

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

NA 08/21/95 08/23/95

ACCESSION:

95H051 95H105 95H109

SAMPLE MSD CONC SPIKE MS SPIKE CONC CONC ADDED MS ADDED MSD (mg/kg) Parameter (mg/kg) (mg/kg) % REC (mg/kg) (mg/kg) % REC 용 RPD DIESEL 140 282 420 99 282 400 93 6 QC LIMIT: 60-140 60-140 40

CKY QUALITY CONTROL DATA LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: PROJECT: CKY Environmental Services San Leandro #8808 EPA M8015

METHOD:

ATRIX: MOISTURE:

SOIL NA

BATCH NO.: SAMPLE ID: CONTROL NO.:

95H051A LCS1S DSH030SL DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

08/21/95 08/23/95

ACCESSION:

95H051

95H105 95H109 ·

TRUE VALUE (mg/kg)

250

FOUND VALUE (mg/kg) 229

LCS RECOVERY (왕)

92

QC LIMIT:

DIESEL

PARAMETER

60-140

EPA METHOD 8020

==========	=======================================		=======
CLIENT:	CKY Environmental Services	DATE COLLECTED:	08/08/95
PROJECT:	San Leandro #8808	DATE RECEIVED:	08/09/95
BATCH NO.:	95H051A	DATE EXTRACTED:	NA
SAMPLE ID:	PS-1'-N-END	DATE ANALYZED:	08/17/95
CONTROL NO.:	H051-08	MATRIX:	SOTE
% MOISTURE:	NA	DILUTION FACTOR:	1
=======================================			=======

PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	results (ug/kg) ND ND ND ND	MDL (ug/kg) 5.0 5.0 5.0 15
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 74	QC LIMIT

EPA METHOD 8020

=======================================							
CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: % MOISTURE:	CKY Environmental Services San Leandro #8808 95H051A PS-1'-S-END H051-09 NA	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	08/08/95 08/09/95 NA 08/17/95 SOIL 1				

PARAMETERS	results (ug/kg)	MDL (ug/kg)
Benzene Toluene Ethylbenzene Total Xylenes	ND ND 7.9 52	5.0 5.0 5.15
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 79	QC LIMIT

EPA METHOD 8020

		_ ~ _ ~ ~ ~ ~ ~		
CLIENT:	CKY Environmental	Sarvicae	DATE COLLECTED:	NA
		DGT ATCGD		INY
PROJECT:	San Leandro #8808		DATE RECEIVED:	NT7N
			DAID KECEIAED:	NA
BATCH NO.:	95H051A		DATE EXTRACTED:	3.T.73
			DAID DVIKACIED:	NA
SAMPLE ID:	MBLK1S		TAME AND TAMES	
			DATE ANALYZED:	08/16/95
CONTROL NO.:	VAH1607B		Ma がり エシ	
	AWITOOLD		MATRIX:	SOIL
% MOISTURE:	NA		DITTITUTE TA COLOR	- · · · · ·
PAULOTOM :	IVA.		DILUTION FACTOR.	

PARAMETERS Benzene Toluene Ethylbenzene Total Xylenes	RESULTS (ug/kg) ND ND ND ND ND	MDL (ug/kg) 5.0 5.0 5.0
SURROGATE PARAMETER Bromofluorobenzene	% RECOVERY 110	QC LIMIT

CKY QUALITY CONTROL DATA SPIKE/SPIKE DUPLICATE ANALYSIS

CLIENT:

CKY Environmental Services San Leandro #8808 EPA 8020 SOIL

PROJECT:

METHOD:

BATCH NO.: SAMPLE ID: CONTROL NO.:

95H051A

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: NA

6-S H074-01

NA 08/17/95

ACCESSION:

95H051 95H074

Parameter	SAMPLE CONC (ug/kg)	SPIKE ADDED (ug/kg)	MS CONC (ug/kg)	MS % REC	SPIKE ADDED (ug/kg)	MSD CONC (ug/kg)	MSD % REC	% RPD
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND	286 286 286 286 857	238 235 237 687	83 82 83 80	286 286 286 857	228 225 222 640	80 79 78 75	4 4 6 7
QC LIMIT:				70-125			70-125	40

CKY QUALITY CONTROL DATA LABORATORY CONTROL SAMPLE ANALYSIS

CKY Environmental Services San Leandro #8808 EPA 8020 CLIENT:

PROJECT:

METHOD: METHOD: SOIL

95H051A LCS1S/LCS1SD VAH1607L/C DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: BATCH NO.: NA SAMPLE ID: CONTROL NO.: NA

08/16/95

ACCESSION: 95H042 95H051 95H071 95H072 95H074

Parameter	SAMPLE CONC (ug/kg)	SPIKE ADDED (ug/kg)	LCS CONC (ug/kg)	LCS % REC	SPIKE ADDED (ug/kg)	LCSD CONC (ug/kg)	LCSD % REC	% RPD
Benzene Toluene Ethylbenzene Total Xylenes	ND ND ND ND	50.00 50.00 50.00	48.20 49.70 48.50 149	96 99 97 99	50.00 50.00 50.00 150	46.90 48.30 49.10 145	94 97 98 97	3 3 1 3
QC LIMIT:				70-125			70-125	40

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: CKY Environmental Services DATE COLLECTED: 08/08/9
PROJECT: San Leandro #8808 DATE RECEIVED: 08/09/9
BATCH NO.: 95H051A DATE EXTRACTED: NA
SAMPLE ID: PS-1'-N-END DATE ANALYZED: 08/16/9 CLIENT: PROJECT: BATCH NO.: DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX: 08/08/95 08/09/95 SAMPLE ID: PS-1'-N CONTROL NO.: H051-08 MOISTURE: NA 08/16/95 SOIL DILUTION FACTOR: 1

		·
PARAMETERS Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane Chloroform 1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Trichloroethene	results (ug/kg) ND	MDL) 15555550050000000000000000000000000000
1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane 2-Chloroethyl vinylether trans-1,3-Dichloropropene cis-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 1,1,1,2-Tetrachloroethane Dibromochloromethane Ethylene Dibromide Chlorobenzene Bromoform 1,1,2,2-Tetrachloroethane Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Benzylchloride SURROGATE PARAMETER	ND ND ND	00000000000000000000000000000000000000
Bromofluorobenzene	82	60-140

MDL: Method Detection Limit Analyzed by GC/MS

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: CKY Environmental Services DATE COLLECTED: 08/08/95
PROJECT: San Leandro #8808 DATE RECEIVED: 08/09/95
BATCH NO.: 95H051A DATE EXTRACTED: NA
SAMPLE ID: PS-1'-S-END DATE ANALYZED: 08/16/95
CONTROL NO.: H051-09 MATRIX: SOIL
% MOISTURE: NA DILUTION FACTOR: 1

PARAMETERS	results (ug/kg)	MDL (ug/kg)
Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane 2-Chloroethyl vinylether trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 1,1,2-Tetrachloroethane Ethylene Dibromide Chlorobenzene Bromoform 1,1,2,2-Tetrachloroethane Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Benzylchloride SURROGATE PARAMETER	ADEED DEED DEED DEED DEED DEED DEED VER COME OF THE C	55 55555500000000000000000000000000000
Bromofluorobenzene	90	QC LIMIT 60-140

MDL: Method Detection Limit Analyzed by GC/MS

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

CKY Environmental Services San Leandro #8808 95H051A MBLK1S CLIENT: DATE COLLECTED: PROJECT: San Leand BATCH NO.: 95H051A SAMPLE ID: MBLK1S CONTROL NO.: VOH1803B % MOISTURE: NA NA DATE RECEIVED: NA DATE EXTRACTED: DATE ANALYZED: MATRIX: NA 08/16/95 SOIL DILUTION FACTOR: 1

PARAMETERS Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,1-Dichloroethane Chloroform	results (ug/kg) ND	MDL (ug/kg) 25 25 25 25 25 20 20 50 50 50 50 50
1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane 2-Chloroethyl vinylether trans-1,3-Dichloropropene cis-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 1,1,1,2-Tetrachloroethane Dibromochloromethane Ethylene Dibromide Chlorobenzene Bromoform 1,1,2,2-Tetrachloroethane Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是	000000000000000000000000000000000000000
Benzylchloride SURROGATE PARAMETER	ND % RECOVERY	5.0 QC LIMIT
Bromofluorobenzene	98	60-140

MDL: Method Detection Limit Analyzed by GC/MS

CKY QUALITY CONTROL DATA SPIKE/SPIKE DUPLICATE ANALYSIS

CKY Environmental Services San Leandro #8808 CLIENT: PROJECT:

METHOD: EPA 8010

SOIL RIX:

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: BATCH NO.: 95H051A MW-12-20' H076-02 NA SAMPLE ID: CONTROL NO.: NA

08/16/95

ACCESSION: 95H051 95H076

Parameter	SAMPLE CONC (ug/kg)	SPIKE ADDED (ug/kg)	MS CONC (ug/kg)	MS % REC	SPIKE ADDED (ug/kg)	MSD CONC (ug/kg)	MSD % REC	% RPD
Benzene Toluene 1,1-DCE TCE Chlorobenzene	ND ND ND ND ND	50.00 50.00 50.00 50.00 50.00	54.76 54.15 57.70 54.08 54.79	110 108 115 108 110	50.00 50.00 50.00 50.00	50.26 50.85 59.71 49.96 50.57	101 102 119 100 101	9,6788
QC LIMIT:								
1,1-DCE Benzene TCE Toluene Chlorobenzene				59-172 66-142 62-137 59-139 60-133		ļ	59-172 66-142 62-137 59-139 60-133	22 21 24 21 21

CKY QUALITY CONTROL DATA LABORATORY CONTROL SAMPLE ANALYSIS

CLIENT: PROJECT: METHOD: CKY Environmental Services San Leandro #8808 EPA 8010 SOIL

ATRIX:

BATCH NO.: SAMPLE ID: CONTROL NO.:

95H051A LCS1S VOH1903L

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

NA NA 08/16/95

ACCESSION:

95H051 95H076

PARAMETER	TRUE VALUE (ug/kg)	FOUND VALUE (ug/kg)	LCS RECOVERY
Benzene Toluene 1,1-DCE TCE Chlorobenzene	20.00 20.00 20.00 20.00 20.00	15.43 16.21 17.01 15.70 16.40	77 81 85 79 82
QC LIMIT:			
1,1-DCE Benzene TCE Toluene Chlorobenzene			59-172 66-142 62-137 59-139 60-133

RELEASED !

ANALYSIS REQUEST FORM

CLIENT NAME:	<u>CIU-E</u>	
CKY CONTROL NO.:	954051	
REQUESTED BY:	M. Deklotz	
DATE:	8-16-95	
LOGGED BY:	C. Chaver	
CKY CONTROL NO.	CLIENT SAMPLE ID	COMMENTS
954051-8 954051-9	·	Diesel/8010/8020 Diesel/8010/8020
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APPENDIX B WASTE MANIFESTS AND DISPOSAL CERTIFICATES

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_	, 1	3. Generator's Home and Mailing Address	SITE ABATES				f	
<u> </u>		P.O. box 935	17930 LAKECH	150.	V. nipie	Mondest Documen	d North	OLL Oppos
5		4. Generator's Prisone (916) 686 - 6154	CASINO VALLEY CA	CHANGE	E State	General Scie 15	1220	
1-800-852.7550	1 1	4. Constitute (416) 686-6154	- A IA. O KURTON CH	74576		1111	1	
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OTSC \$022A (1/93)

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CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

	CUSTOMER
Į	EMEDIAL CONST. JOB NO.
	JOB NO.
9	66313

FOR: ERICKSON, INC. TANK NO. 16240
LOCATION: RICHMOND DATE: 95/08/07 TIME: 10:10
TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT D
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 6000 GALLON TANK CONDITION SAFE FOR FIRE
REMARKS:OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN C.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 ADDROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR FROCESSING.
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 concentrations.
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 desired necessary by the Inspector.
The undersigned perhanentative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.
REPRESENTATIVE TITLE INSPECTOR

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	Ţ	Printe	d/Typed Name		- or notardous mo	Signature	ns monifest ex	cepy as floted	in Item 19.		<u>-</u>	
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economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best

	Michael DeKlotz for U.S.A.C.E.	Michael Delley for U.S.A.C.E.	Month D	Day	Ye
	17. Transporter 1 Acknowledgement of Receipt of Materials	A . 0	10 0 1		
	Printed/Typed Mame Co b ut 18. Transporter 2 Acknowledgement of Receipt of Materials	Signature WA Voca	Month D)6 9	Ye
	Printed/Typed Name	Signature	Month D		.
_			Monin) 	Ye
	19. Discrepancy Indication Space				

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name Day

DO NOT WRITE BELOW THIS LINE.



ENVIROPUR WEST

PATTERSON, CA 95363 (209) 892-6742 (800) 874 4444 FAX# (209) 892 2248

PAGE NO INVOICE NO APPLY TO INVOICE DATE CUST. NO 1 A2261 08/17/95 REMC0 A2261

WORK ORDER NO. B.O.

209-537-8196 IRENE REMEDIAL CONSTRUCTORS INC 5030 SHILOH ROAD MODESTO, CA 95358

US ARMY CORP OF ENGINEERS

DATE SHIPPED PURCHASE ORDER NO.

08/16/95

n D

BUYER

Enviropur West

F.O.B.

TERMS

NET 30

DATE REQUESTED LOCATION SALESPERSON

SHIP VIA

TERRITORY

08/16/95 10000

JERRY SONDREE

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ENVIRONMENTAL

ITEM NO.

DESCRIPTION

QUANTITY

QUANTITY BACK ORD, QUANTITY SHIPPED

UNIT PRICE

NON RCRA BAZARDOUS WASTE LIQUID

540

540

EXTENSION

LAB FRR

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RT121114, %6469127, MANIFEST193243913

653-30-9505=135.00 657-30-9505 =-30.00

> REMIT TO Enviropur West Corp c/o Oxford Capital Corp. P.O.Box 5921 Dept. #1139 Carol Stream, IL 60197-5921

PLEASE PAY FROM THIS INVOICE

A service fee of 1 1/2 percent per month shall be charged on all part due accounts.

event this account becomes delinquent and it is necessary to institute legal proceedings, purchaser agrees to pay able altorney's fees and cours costs.

SUBTOTAL

165.00 THANK YOU!

ff fVi A2261

PLEASE REMIT THIS AMOUNT



NON-HAZARDOUS WASTE MANIFEST

WASTE TREATMENT AND DISPOSAL FACILITY

JOB	ACCEPTANCE NO.	CMA

REQUIRED PERSONAL PROTECTIVE EQUIPMENT S ARMY CORP OF ENGINEERING GLOVES GOGGLES RESPIRATOR HARD HAT TY-VEK OTHER MALING ADDRESS 2021 JEFFERSON BLVD SPECIAL HANDLING PROCEDURES: CITY STATE ZP CEST SACRAMENTO, CA 95691 (16-373-1617 CONTACT PERSON NDY ROGERS SIGNATURE OF AUTHORIZED AGENT LITTLE DATE RECEIVING FACILITY ☐ SLUDGE FORWARD INC. LANDFILL ☐ TREATMENT SOIL NON-FRIABLE ASBESTOS DISPOSAL SOIL WOOD 9999 SOUTH AUSTIN ROAD ☐ CONSTRUCTION SOIL ASH **OTHER** MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE **GENERATING FACILITY** FIKE BATTERY # 31 (209) 982-1009 FAX LAKE CHABOT PARK EAN LEANDRO, CA TRUCK NUMBER and it is not have the common WANTEY & SONS TRUCKING, INC. 3411636 **ADDRESS** 1243245 5390 LIDER CRUEK POAD CITY, STATE, ZIP ACRAMENTO, CA 93828 PHONE END DUMP **BOTTOM DUMP** TRANSFER \Box SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE ROLL-OFF(S) FLAT-BED DRUMS VAN 15, -1/- 30 **CUBIC YARDS** FORWARD INC. LANDFILL 18 YARDS Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste **DISPOSAL METHOD:** (TO BE COMPLETED BY FORWARD) impairs the safe and effective operation of the Landfill. Forward shall use DISPOSE AERATE STOCKPILE BIO OTHER reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on ☐ SOIL weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste. ☐ SLUDGE REMARKS NON-FRIABLE **ASBESTOS** FACILITY TICKET NUMBER ☐ WOOD SIGNATURE OF AUTHORIZED AGENT DATE ☐ ASH OTHER

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JOB ACCEPTANCE NO. CMM - 4456

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

	4111 1730
SENERATOR S ARMY CORP OF ENGINEERING MAINGADDRESS 2021 JEFFERSON BLVD CITYSTATE ZP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT GLOVES GOGGLES RESPIRATOR HARD HA TY-VEK OTHER SPECIAL HANDLING PROCEDURES:
PHONE 116-373-1617 CONTACT PERSON SIGNATURE OF AUTHORIZED AGENT LITTLE ** SIGNATURE OF AUTHORIZED AGENT LITTLE ** A CONTACT PERSON SIGNATURE OF AUTHORIZED AGENT LITTLE ** A CONTACT PERSON ** SIGNATURE OF AUTHORIZED AGENT LITTLE ** A CONTACT PERSON ** SIGNATURE OF AUTHORIZED AGENT LITTLE ** A CONTACT PERSON ** A	2
WASTE TUPE SLUDGE NON-FRIABLE ASBESTOS WOOD WOOD ASH OTHER GENERATING FACILITY	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-1009 FAX
NAME NAME	NOTES: TRUCK NUMBER 3572657 FIND DUMP BOTTOM DUMP TRANSFER ROLL-OFF(S) FLAT-BED VAN DRUMS 1
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.	DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER SOIL
REMARKS FACILITY TICKET NUMBER SIGNATURE OF AUTHORIZED AGENT DATE	SLUDGE NON-FRIABLE ASBESTOS WOOD ASH OTHER



NON-HAZARDOUS WASTE MANIFEST

WASTE TREATMENT AND DISPOSAL FACILITY

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CMM-4456

HOLVERNED ELSE	US APMY CORP OF ENGINEERING MALING ADDRESS 2021 JEFFERSON BLVD CITY STATE ZP WEST SACRAMENTO, CA 95691 PHONE 916-373-1617 CONTACT PERSON RANDY POGERS FOR USACE SIGNATURE OF AUTHORIZED AGENT LITTLE ACE **COLUMN TO LISACE **COLUMN TO LI	de de la companya de	REQUIRED PERSONAL PROTECTIVE EQUIPMENT SIGNATURE TY-VEK OTHER SPECIAL HANDLING PROCEDURES:
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	LAKE CHABOT PARK SAN LEANDKO, CA		(209) 982-1009 FAX
THE THE PARTY OF T	MANLEY & SONS TRUCKING, INC ADDRESS 8896 ELLER CRLEK HOAD CITY, STATE, ZIP SACRAMENTO, CA 95825 PHONE (916) 381-6864 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE	3 (= C	NOTES: TRUCK NUMBER TRUCK NUMBER TRUCK NUMBER TRUCK NUMBER
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APPENDIX C PERMITS

ALAMEDA COUNTY HEALTH AGENCY

THE RESIDENCE OF THE PROPERTY

Scott O. Seery, CHMM Senior Hazardous Materials Specialist



DIVISION OF ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502 (510) 567-6783 • Fax (510) 337-9335

C

ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PARKWAY, RM 250 ALAMEDA, CA 94502-6577 PHONE # 510/567-6700 FAX # 510/337-9335	# # PC# 1
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D B STATE OF NOTICE FOR ENDING THE RESIDENCE F	CHANGES HED "PRO
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2	*

UNDERGROUND TANK CLOSURE PLAN
* * * Complete according to attached instructions * * *

.s. ARMY CORPS OF ENGINEERS
act Person (PRINT) William Campeon
BAHERY #31 LAKE CHABOT Rd
Zip 945-16 Phone (916) 373-1617
Box 935
40 Zip 95961-0935 Phone (9/6) 373-/6/7
ARMY CORP OF ENGINEERS
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+CRAMENTO., CA = 10 9596-0935
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of ENGINEERS
nk will be manifested S &

6 .	Contractor Remedial Constructors
•	Address 8627 DIA mond OAK WAY
	City <u>E/K Grove</u> Phone (9/6)686-6/54
	License Type* Class A + HAZ WAS CERT ID# 645468
	*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.
7.	Consultant (if applicable)
	Address
	City, State Phone
8.	. Main Contact Person for Investigation (if applicable)
	Name William CAMEROW Title Res. ENGINEER
	Company USARMY CORPS of ENGINEERS
	Phone (914) 373-1617
9	. Number of underground tanks being closed with this plan one
	Length of piping being removed under this plan 25'
•	Total number of underground tanks at this facility (**confirmed with owner or operator) one
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 ERICKSON, INC EPA I.D. No. CADO 09466392
	Hauler License No. <u>6019</u> License Exp. Date <u>5-3/-96</u>
	Address 255 PARR BIUS
	City Richmond State CA Zip 9480/
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name Gibson ENVIRONMENTAL EPA ID# CAD643260702
	Address 475 Seafort Blud
	City Redwood City State CA Zip 94063

) Tank and Piping Transporter	
	Name ERICKSON, INC	EPA I.D. No. <u>C40 00 94 663 92</u>
	Hauler License No. 60/9	License Exp. Date 5-31-96
	Address 255 PARK Blud	
,		State <u>CA</u> Zip <u>9480/ ;</u>
ć	d) Tank and Piping Disposal Site	
	Name ERICKSON, INC	EPA I.D. No. CAD 0094 663 92
	Address '255 PARR BIVD	
		StateCAZip9480/
11.	Sample Collector	
	Name	
	company CKx we. EXURONME	whal services
	Address 3480 TORRANCE BIND	Suite 100
		CA Zip 90503 Phone 3/0-792-3728
	City / OKK-WCC	
12.	Laboratory	
	Name CKY INC ENVIRONME	WHAI SERVICES
	Address 3480 TORRANCE Blud	
	city Torrence	State <u>CA</u> Zip <u>90503</u>
	State Certification No	
13.	Have tanks or pipes leaked in the	e past? Yes[] No[V] Unknown[]
	If yes, describe.	
	±± 100/	

14. Describe methods to be used for rendering came(s) indi-

The TANK will be invested by using At Least 2016s as dex ice per 1,000 gallows of tANK volume

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.

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

	Tank	Material to be sampled (tank contents, soil,	Location and Depth of Samples	
Capacity	Use History include date last used (estimated)	groundwater)		
6,000 GAllow	Diesel TANK FOR Supplying FUEL FOR EMERGONS	Soil	Pipēlinie - Eucey 20 Feet	
	generator LAS+ Used 1980	Soil	TANK - 2 SAMPLES UNDER EACH END, I FROM EACH SIDE WALL - 2 Feet Into Native Soil	

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 present in the excavation.

Excavated/Stockpiled Soil

Stockpiled Soil Volume (estimated)

82 cubic YARds

Sampling Plan

Composite SAMPLE (4:1) FOR EVERY

SOCUDIC YARDS OF EXCAUATED GO!

FOR INITIAL CHARACTERIZATION OR

BAAOMO AERATION, ONLY. ON-SITE

DISPOSAL/REWSE REQUIRES ONE

DISCRETE SAMPLE PER 20 YDS 3

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 [] no [] unknown

If yes, explain reasoning __

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without <u>prior</u> approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling 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
biesel	3550	TPH-Diesel MOD 8015/BC-FID	10 7pm
Wolates		-8010	
BFEX		8020	0.005 ppm
,			
			,
			<u> </u>

18. Submit Worker's Compensation Certificate copy
Name of Insurer State Fund
19. Submit Plot Plan ***(See Instructions) ***
20. Enclose Deposit (See Instructions)
21. Report any leaks or contamination to this office within 5 days of discovery. 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 removal. 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 assumed by the County of Alameda.
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 Remedial Constructors, INC
Name of Individual Thomas J. Dougherty
Signature Thomas J. Daughetty Date 07/08/95
PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)
Name of Business U.S. ARMY CORPOS Engineers
Name of Individual Contract number included with Plans
Signature Date
rev 4/6/95 - 6 -

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE INFORMATION:

•	
Site ID Number	
(if known)	
·	(- A 2 w (
NIKE RAHERY 31 USAEMY COR	ps of tray/weeks
Name of Site	
Chahot LAKE Rd	
Chabot Lake Ro Street Address	
SAN LEANDRO, CA City, State & Zip Co	ode
City, State & hip of	
I designate the following person or bus	iness to receive any
refund due at the completion of all dep	osit/refund projects:
Toruna das de sus sus sus sus sus sus sus sus sus su	
Name Remedial Constructors, INC	
8627 Diamond OAK WAY Street Address	
Street Address	
3	
City, State & Zip Code	
City, State & Zip Code	
2 2 04	07/05/95
Thomas Dangherty	07/05/95 Date
Signature/or wayor	
Thomas J. Dousheety	Renedial CONSTRUCTORS, INC
Thomas J. Dougheety Name of Payor	Company Name of Payor
(PLEASE PRINT CLEARLY)	

RETURN FORM TO:

County of Alameda, Environmental Protection 1131 Harbor Bay Parkway, Rm 250 Alameda CA 94502-6577 Phone#(510) 567-6700

General Instructions

- Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
 - * Any cutting into tanks requires local fire department approval.
 - * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
 - * State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

- 2. <u>SITE ADDRESS</u>
 Address at which closure is taking place.
- 5. <u>EPA I.D. NO. under which the tanks will be manifested</u>
 EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.
- 6. <u>CONTRACTOR</u>
 Prime contractor for the project.
- 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
- 15. TANK HISTORY AND SAMPLING INFORMATION

 Use History This information is essential and must be accurate.

 Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:,

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.
- 20. DEPOSIT

A deposit, payable to "County of Alameda" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

- 21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.
- 22. TANK CLOSURE REPORT The tank closure report should contain the following information:
 - a) General description of the closure activities;
 - b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

Preliminary UST Site Investigations

TABLE #2 RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

				
HYDROCARBON LEAK	SOIL ANAL	<u>YSIS</u>	WATER ANA	LYSIS
Unknown Fuel	TPH G TPH D BTX&E TPH AND B	GCFID(5030) GCFID(3550) 8020 or 8240 TX&E 8260	TPH G TPH D BTX&E	GCFID(5030) GCFID(3510) 602, 624 or 8260
Leaded Gas	TOTAL LEA		TPH G BTX&E TOTAL LEA	GCFID(5030) 602 or 624 D AA
	_	ional	TEL	DHS-LUFT
	TEL EDB	DHS-LUFT DHS-AB1803	EDB	DHS-AB1803
Unleaded Gas	TPH G BTX&E TPH AND I	GCFID(5030) 8020 or 8240 BTX&E 8260	TPH G BTX&E	GCFID(5030) 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D BTX&E TPH AND	GCFID(3550) 8020 or 8240 BTX&E 8260	TPH D BTX&E	GCFID(3510) 602, 624 or 8260
Fuel/Heating Oil	TPH D BTX&E TPH AND	GCFID(3550) 8020 or 8240 BTX&E 8260	TPH D BTX&E	GCFID(3510) 602, 624 or 8260
Chlorinated Solvents	CL HC BTX&E CL HC AN	8010 or 8240 8020 or 8240 D BTX&E 8260	CL HC BTX&E CL HC AN	601 or 624 602 or 624 D BTX&E 8260
Non-chlorinated Solvents	TPH D BTX&E TPH AND	GCFID(3550) 8020 or 8240 BTX&E 8260	TPH D BTX&E TPH and	GCFID(3510) 602 or 624 BTX&E 8260
Waste and Used Oil or Unknown	TPH G TPH D	GCFID(5030) GCFID(3550) BTX&E 8260	TPH G TPH D	GCFID(5030) GCFID(3510
(All analyses must be completed and submitted)	O & G BTX&E	5520 D & F 8020 or 8240	O & G BTX&E	5520 B & F 602, 624 or 8260
	CL HC	8010 or 8240	CL HC	601 or 624
	ICAP or METHOD & PCB* PCP* PNA CREOSOT	AA TO DETECT METAL 8270 FOR SOIL OR WA	S: Cd, Cr, I TER TO DETEC PCB PCP PNA CREOSOTI	CT:

^{*} If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

t

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990 Eretiminary our pice Threacidagrams

Based upon a Regional Board survey of Department of Health Services sertified Laboratories, the Practical Quantitation Reporting Limits are ttainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown, by the survey, are:

ROUTINE	MODIFIED PROTOCOL
<pre>≤ 10 ppm (42%) ≤ 5 ppm (19%) ≤ 1 ppm (35%)</pre>	<pre>≤ 10 ppm (10%) ≤ 5 ppm (21%) ≤ 1 ppm (60%)</pre>

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- 10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- 11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chroma-togram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

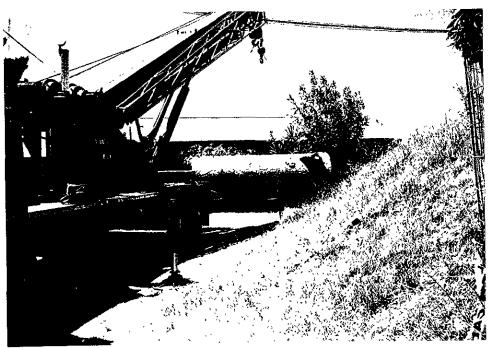
EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

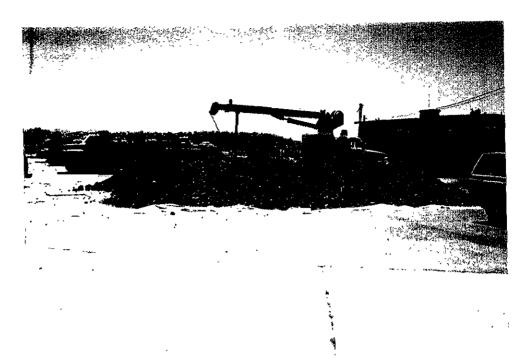
APPENDIX D PROGRESS PHOTOGRAPHS



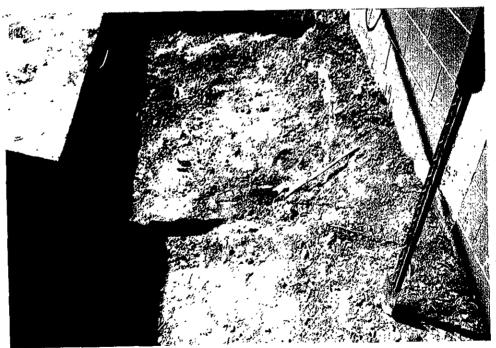
DACA-05-94-D-0012, D.O. 0005, Project No. 8808
Launcher Area, Nike Battery 31, San Leandro
Exposing 6,000-Gallon UST for Removal
August 3, 1995, 11:40 AM, Looking West
CKY, Inc. Environmental Services/Mike DeKlotz
Photograph No. 1



DACA-05-94-D-0012, D.O. 0005, Project No. 8808
Launcher Area, Nike Battery 31, San Leandro
Removing 6,000-Gallon UST
August 3, 1995, 12:35 PM, Looking South
CKY, Inc. Environmental Services/Mike DeKlotz
Photograph No. 2



DACA-05-94-D-0012, D.O. 0005, Project No. 8808 Launcher Area, Nike Battery 31, San Leandro Stockpiled Soil August 8, 1995, 12:00 PM, Looking East CKY, Inc. Environmental Services/Mike DeKlotz Photograph No. 3



DACA-05-94-D-0012, D.O. 0005, Project No. 8808
Facilities Area, Nike Battery 31, San Leandro
Overexcavation under AST Saddle
August 8, 1995, 11:00 AM, Looking South
CKY, Inc. Environmental Services/Mike DeKlotz
Photograph No. 4



DACA-05-94-D-0012, D.O. 0005, Project No. 8808 Launcher Areas, Nike Battery 31, San Leandro Backfilling the UST Excavation Lined with Visqueen August 21, 1995, 12:20 PM, Looking West CKY, Inc. Environmental Services/Mike DeKlotz Photograph No. 5



DACA-05-94-D-0012, D.O. 0005, Project No. 8808
Launcher Areas, Nike Battery 31, San Leandro
Restoration of UST Excavation
August 23, 1995, 8:00 AM, Looking West
CKY, Inc. Environmental Services/Mike DeKlotz
Photograph No. 6