Environmental
Science &
Engineering, Inc.
A CILCORP Company

December 4, 1995

Mr. Rod Freitag, PE
Environmental Program Manager
Alameda County General Services Agency
Engineering & Environmental Management
1401 Lakeside Drive
Oakland, CA 94612

SUBJECT: REPORT OF SITE ACTIVITIES
UST 18 & 19 SITE
SANTA RITA CORRECTIONAL FACILITY
DUBLIN, CALIFORNIA
ESE PROJECT NO. 6595174

Dear Mr. Freitag:

Environmental Science & Engineering, Inc. (ESE) presents the following results for activities performed at the subject site (Figure 1 - Vicinity Map) including soil stockpile management and spreading, and excavation backfilling services. ESE was contracted by the Alameda County General Services Agency (GSA) to perform this work.

BACKGROUND

ESE supervised the excavation and removal of two underground storage tanks (USTs) at the subject site on May 13 and 14, 1992 (ESE, 1992a). These USTs were reportedly utilized for the storage of Bunker C fuel oil only. Approximately 160 cubic yards of excavated soil were stockpiled on the north and southwest sides of the excavation (Figure 2 - Site Plan).

ESE also supervised the excavation and removal of three USTs at the Old Graystone Fueling Area at the Santa Rita Correctional Facility on May 18, 1992 (ESE, 1992b). The site is located approximately one quarter mile from the UST 18 & 19 site toward the southwest. The USTs were utilized for the storage of gasoline, diesel fuel, and waste oil, respectively. Approximately 200 yards of pea-gravel and soil were excavated at the Old Graystone Fueling Area during UST removal activities, and, as directed by the GSA, stockpiled on plastic at a location approximately 100 feet northeast of the UST 18 & 19 excavation (Figure 2). Subsequent site investigation and corrective action activities at the Old Graystone Fueling Area indicated that the soil had been impacted with gasoline and diesel fuel.

On May 26, 1995, ESE collected and analyzed samples to characterize the soil stockpiles described above. Samples were collected at a frequency of one discrete soil sample per approximately 50 cubic yards of stockpiled soil, for a total of seven samples. Analytical results indicated that some samples to contained detectable concentrations of total petroleum hydrocarbons as diesel (TPH-D) and petroleum oil and grease (O&G). No detectable concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reported to occur in any of the samples. Results were presented in a Report of Stockpiled Soil Sampling prepared by ESE (ESE, 1995).

In addition to the stockpiled soil described above, approximately 100 cubic yards of surplus backfill material from GSA's Highland Hospital Site in Oakland was stockpiled at the site. This soil was reported to contain detectable concentrations of TPH-D (Versar, 1995).

Versar was retained by the GSA to conduct a leachability assessment for the stockpiled soil (Versar, 1995). This assessment concluded that the stockpiled soil could be spread on-site without adversely impacting underlying ground water. In a letter addressed to the GSA and dated September 25, 1995, the Alameda County Health Care Services Agency (HCSA) indicated that the stockpiled soil could be spread at grade on site at areas zoned for commercial or industrial development (Attachment 2).

Pursuant to a GSA Request for Proposal (RFP) dated September 19, 1995, and a bidwalk on September 25, 1995, ESE submitted Proposal No. 6595725.999 (Revised) to perform the necessary scope of work. ESE received GSA approval to proceed on October 23, 1995.

SITE ACTIVITIES

Prior to starting the daily fieldwork, all onsite personnel attended a brief health and safety tailgate meeting. The purpose of these meetings was to summarize the health and safety plan and describe the potential hazards related to this scope of work. All work was performed in Level D personal protective equipment.

SOIL STOCKPILE SPREADING

ESE supervised Caballero Trucking (Caballero) of San Jose, California during the loading and hauling of the soil stockpiled at the UST 18 & 19 site. During loading activities, the soil was screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Debris (i.e. concrete fragments greater than six inches in diameter, plastic, and wood) was removed from the soil and stockpiled at the UST 18 & 19 site for subsequent disposal. All gross vegetation was scraped from the soil stockpiles prior to loading.

The soil was hauled and spread in a commerciaaly zoned area located near the intersection of Gleason Drive and Tassajara Road, as designated by the GSA (Figure 3 - Backfill Stockpile and Soil Spreading Locations). The field was scraped of all gross vegetation prior to receiving soil. ESE then performed a final screening for debris and spread the soil in a six-inch thick layer over the existing grade of the field.

Plates 1 to 9 (Attachment 1) provide a photographic log of the soil spreading activities.

UST 18 & 19 EXCAVATION BACKFILLING

ESE supervised Caballero during backfilling and compaction of the UST 18 & 19 excavation. Clean soil from an onsite location was used for fill material.

Fill material was obtained from a large stockpile located immediately north of the existing Alameda County Animal Shelter on Gleason Drive (Figure 3). ESE collected representative samples from this soil stockpile on September 24, 1993 and submitted them to McCampbell Analytical of Pacheco, California (a State-certified laboratory) for analysis. No detectable concentrations of TPH-D, TPH-G, O&G, and BTEX constituents were reported in these representative samples (Attachment 3).

Caballero prepared the UST 18 & 19 excavation to receive the fill material by scraping all gross vegetation off of the excavation soil surfaces, grading an entrance/exit ramp for equipment and compacting all unconsolidated slump materials located at the base of the excavation sidewalls.

The fill material was hydrated, placed in the excavation in six-inch lifts, and compacted. The excavation was backfilled to grade by repeating this methodology. Plates 10 to 20 (Attachment 1) provide a photographic log of the excavation backfilling activities performed at the site.

REFERENCES

Environmental Science & Engineering, Inc. (ESE), 1992a. Underground Storage Tank Closure Report, UST 18 & 19 Site, Santa Rita Correctional Facility, Dublin, California; July 20, 1992.

(ESE), 1992b. Underground Storage Tank Closure Report, Old Graystone Fueling Area, Santa Rita Correctional Facility, Dublin, California, July 20, 1992.

(ESE), 1995. Report of Stockpiled Soil Sampling, UST 18 & 19 Site, Santa Rita Correctional Facility, Dublin, California, July 11, 1995.

Versar, Inc. (Versar), 1995. Report of Stockpiled Soil; September 12, 1995.

o o O o o

Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists and engineers practicing in this field. Please contact Bart Miller at (510) 685-4053 with any questions pertaining to this report.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Bart S. Miller, REA
Project Geologist

Jay Carpenter
Construction Manager
CA Lic. Cont. #658022 A,D21,HAZ

Figure 1 Vicinity Map
Figure 2 Site Plan
Figure 3 Spreading/Stockpile Locations

Attachment 1 Plates
Attachment 2 HCSA Letter Dated 9/25/95
Attachment 3 Laboratory Report with Chain-of-Custody Documentation

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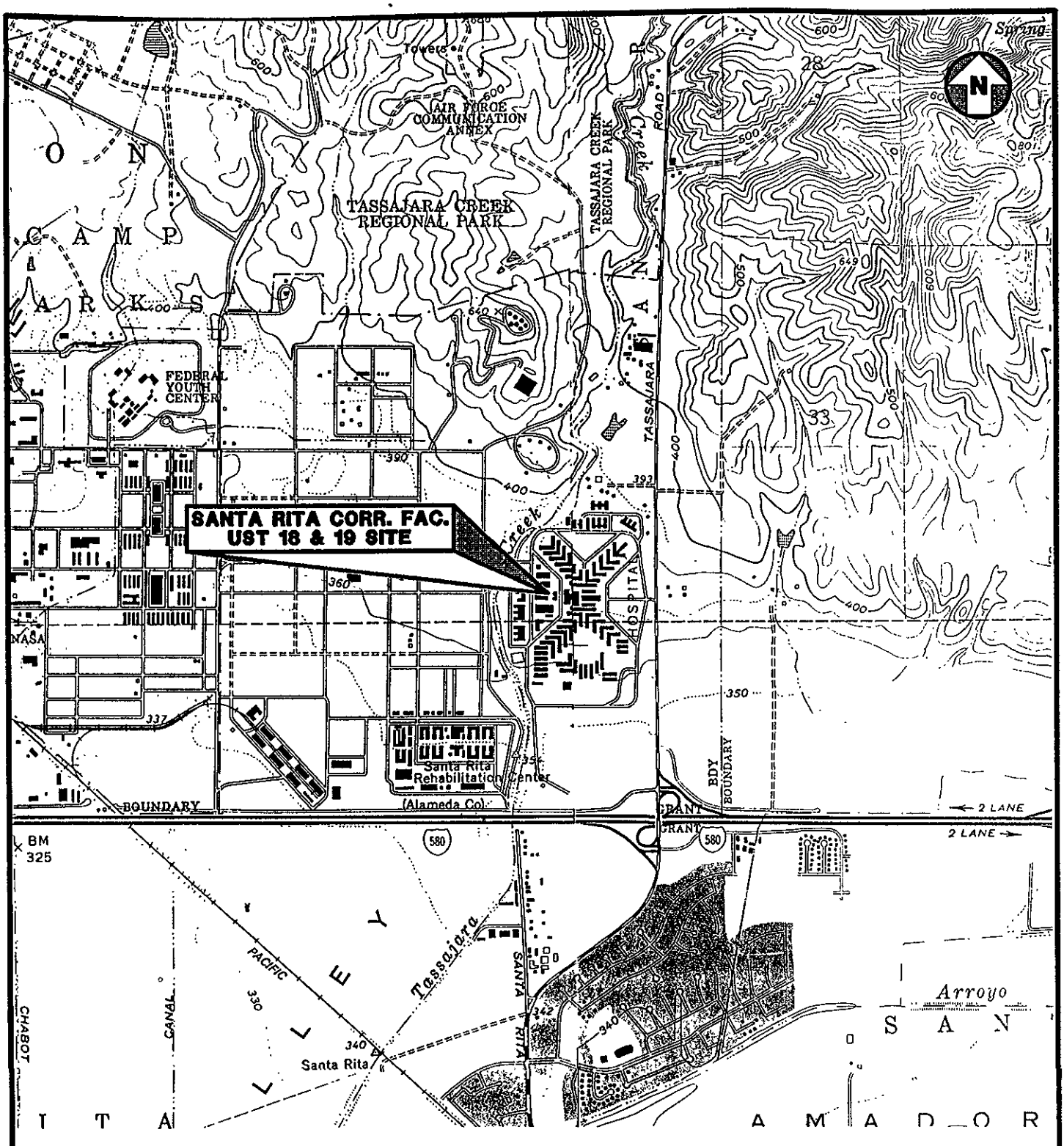
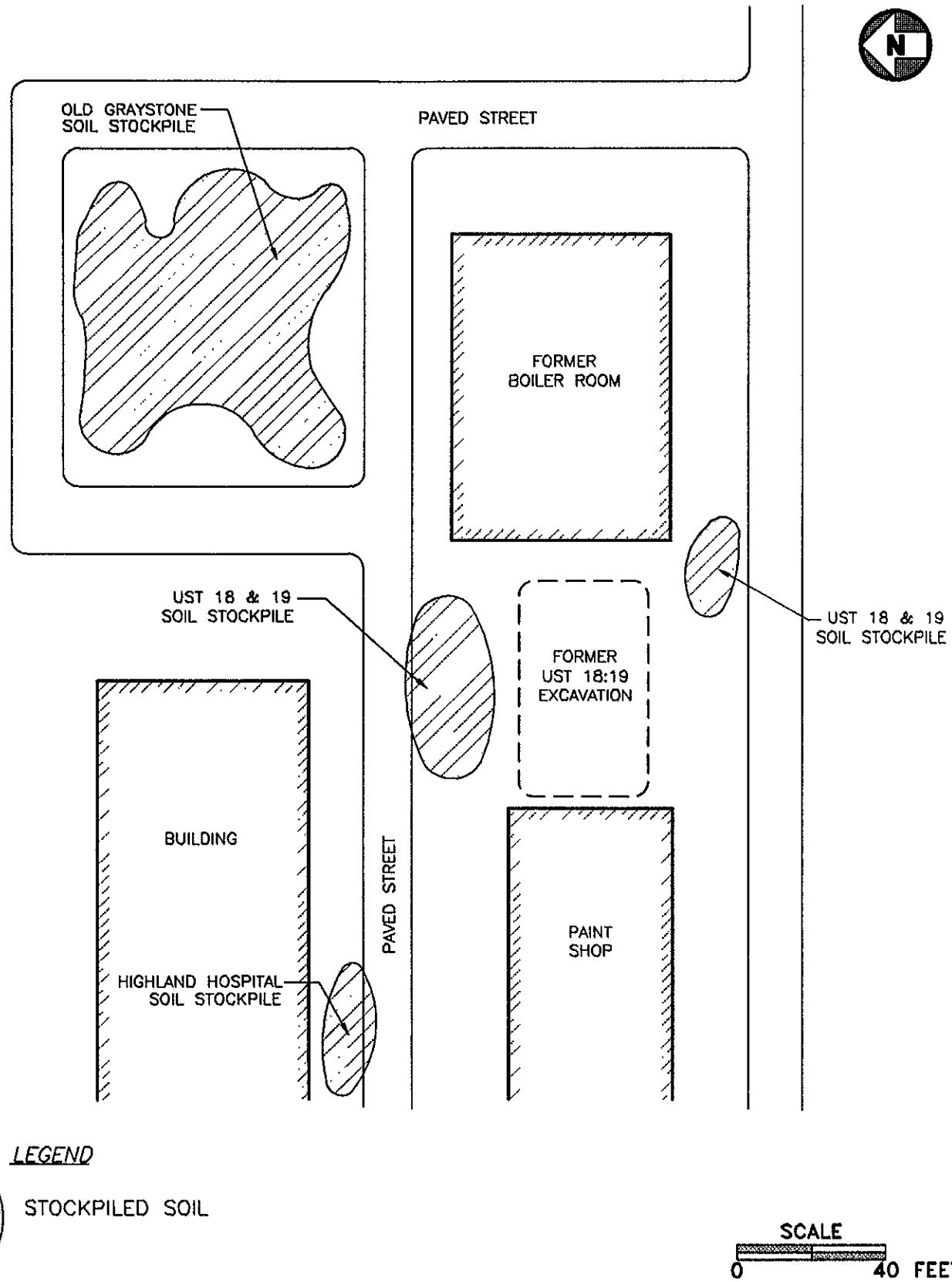
FIGURES

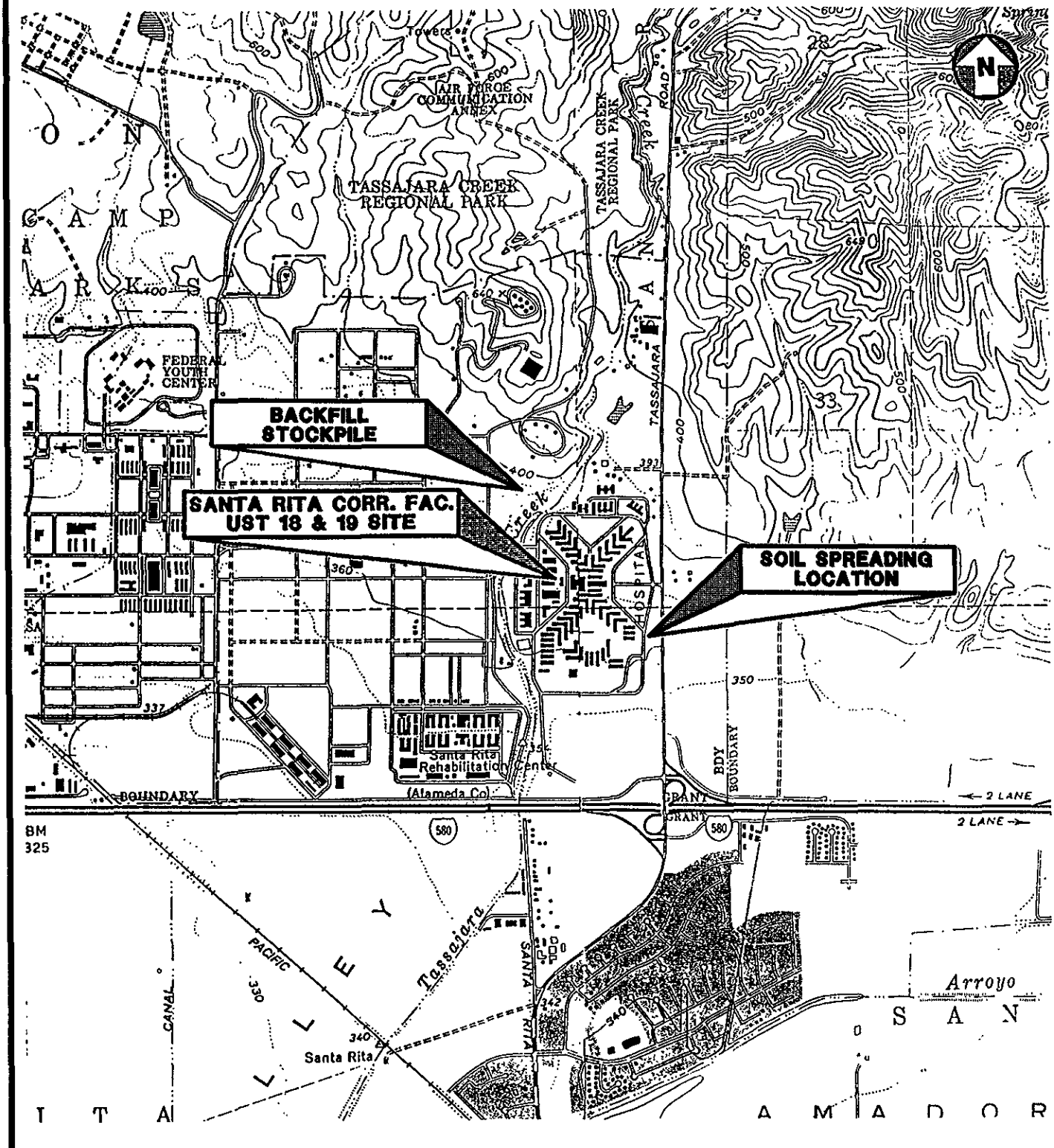


ADAPTED FROM U.S.G.S. DUBLIN AND LIVERMORE, CALIFORNIA, 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS, 1980

Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 6/21/95 REVISED CAD FILE 65506801	VICINITY MAP ALAMEDA COUNTY GSA – UST 18 & 19 SITE SANTA RITA CORRECTIONAL FACILITY DUBLIN, CALIFORNIA	FIGURE NO. 1 PROJ. NO. 65-95-068



Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 12/5/95 REVISED CAD FILE 65517402	SITE PLAN ALAMEDA COUNTY GSA – UST 18 & 19 SITE SANTA RITA CORRECTIONAL FACILITY DUBLIN, CALIFORNIA	FIGURE NO. 2 PROJ. NO. 65-95-174



ADAPTED FROM U.S.G.S. DUBLIN AND LIVERMORE, CALIFORNIA, 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS, 1980

Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 12/7/95 REVISED CAD FILE 65517403	BACKFILL STOCKPILE AND SOIL SPREADING LOCATIONS ALAMEDA COUNTY GSA – UST 18 & 19 SITE SANTA RITA CORRECTIONAL FACILITY DUBLIN, CALIFORNIA	FIGURE NO. 3 PROJ. NO. 65-95-174

ATTACHMENT 1

PLATES

Plate 1 - Viewing toward southwest at UST 18 & 19 soil stockpile bordered on the east and west with security fencing and the south by the UST excavation.

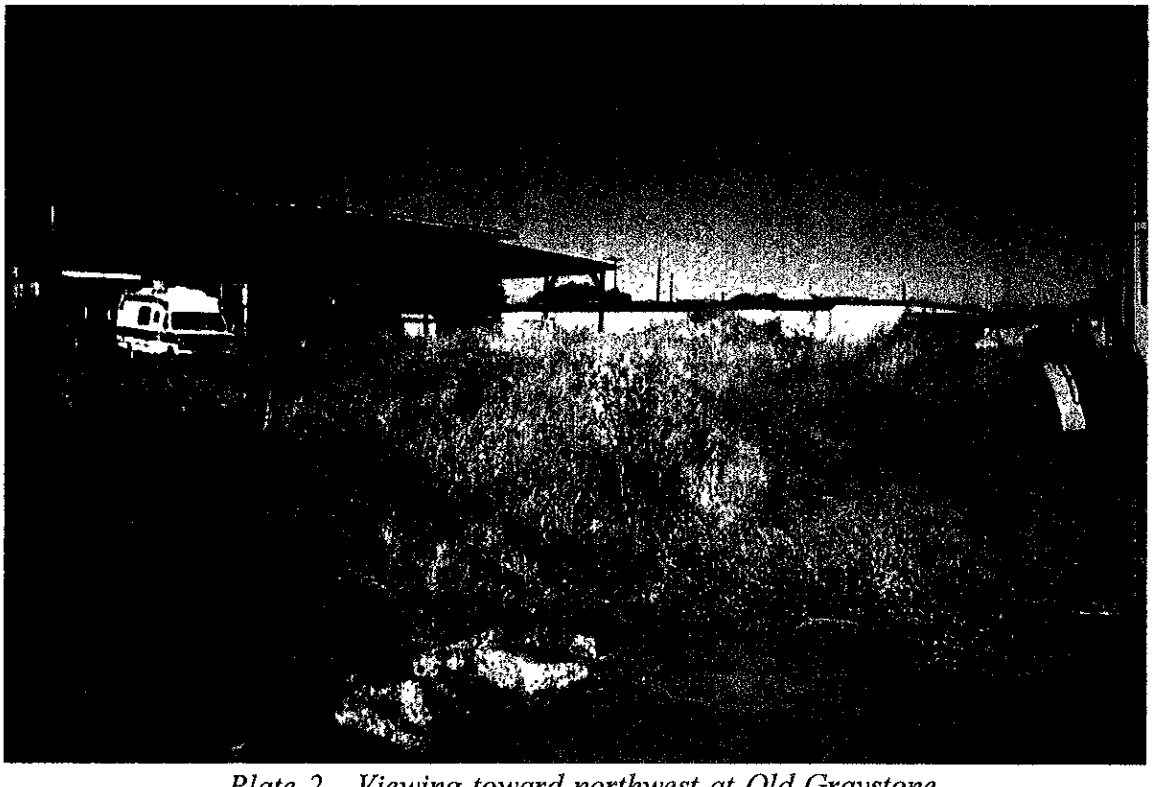


Plate 2 - Viewing toward northwest at Old Graystone soil stockpile prior to loading activities.

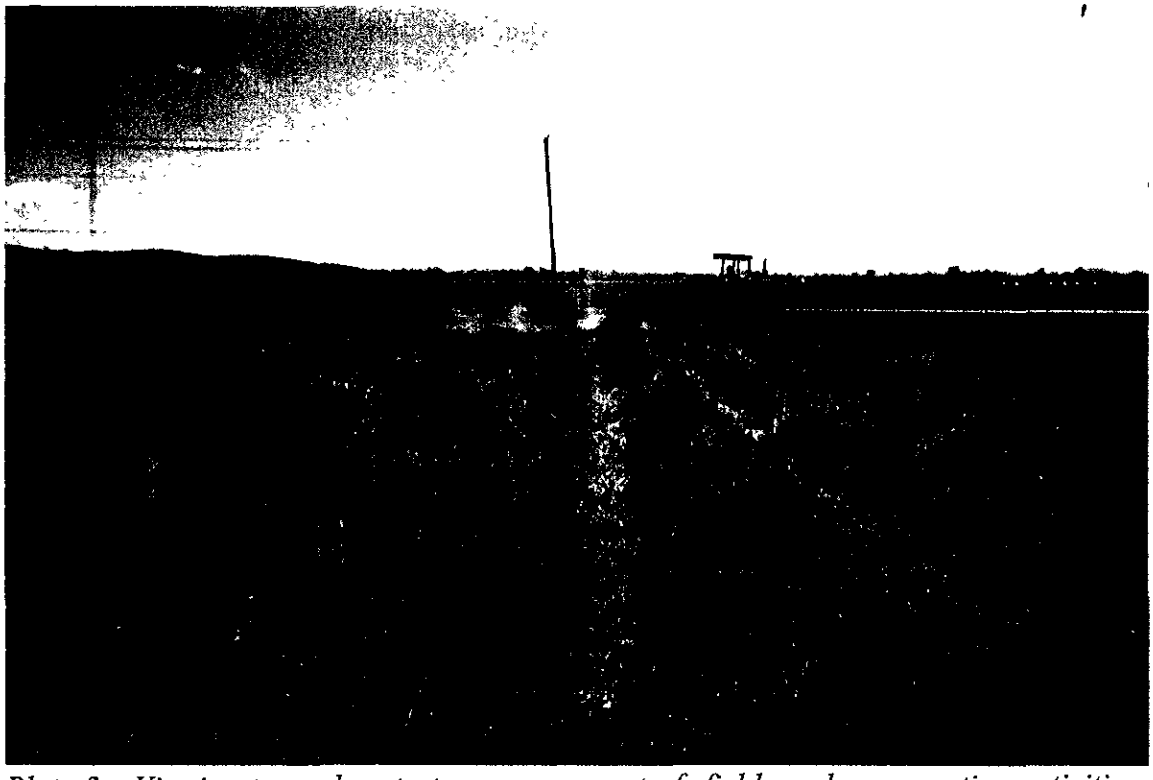


Plate 3 - Viewing toward east at commencement of field grade preparation activities. Tassajara Road is present in the background.

Plate 4 - Viewing toward north at field grade preparation activities. Tassajara Road is visible to the east side of the plate.

Plate 5 - Viewing toward northwest at loading/hauling of Old Graystone soil stockpile. Note loaded tractor-trailer departing site in background.

Plate 6 - Viewing toward east at remnants of UST 18 & 19 soil stockpile. Note Boiler Room building located in background.

Plate 7 - Viewing toward northeast at truckloads of soil being stockpiled in the receiving field. Tassajara Road is present in the background.

Plate 8 - Viewing toward east at spreading of stockpiled soil on the receiving field. Final approximate spread soil thickness was six inches.

Plate 9 - Viewing toward northeast at receiving field after preliminary spreading of soil.

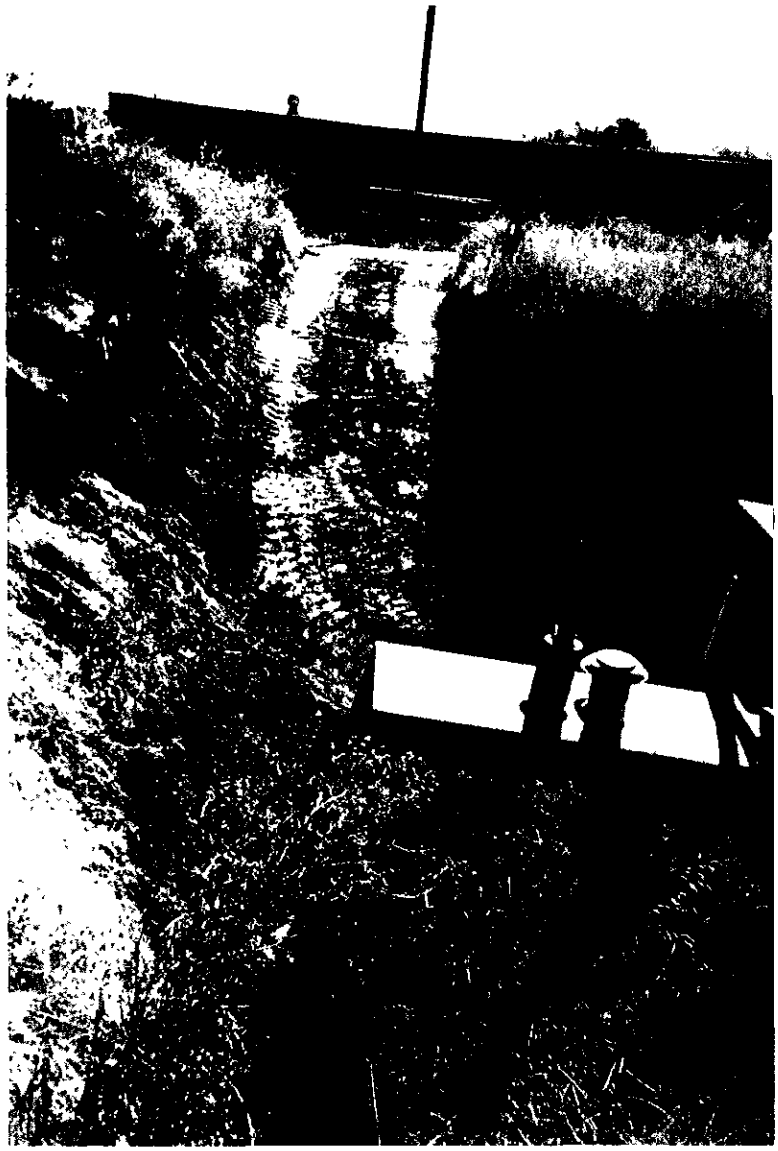


Plate 10 - Viewing toward south at ramped entry into UST 18 & 19 excavation for heavy machinery.

Plate 11 - Viewing into UST 18 & 19 excavation at sidewall preparation activities.

Plate 12 - Viewing toward southwest at stockpile of clean soil imported from a Santa Rita Correctional Facility location behind the County Animal shelter at Gleason Road.

Plate 13 - Preliminary importing of clean soil into UST 18 & 19 excavation by loader.

Plate 14 - View toward west at fill hydration activities for obtaining compaction.

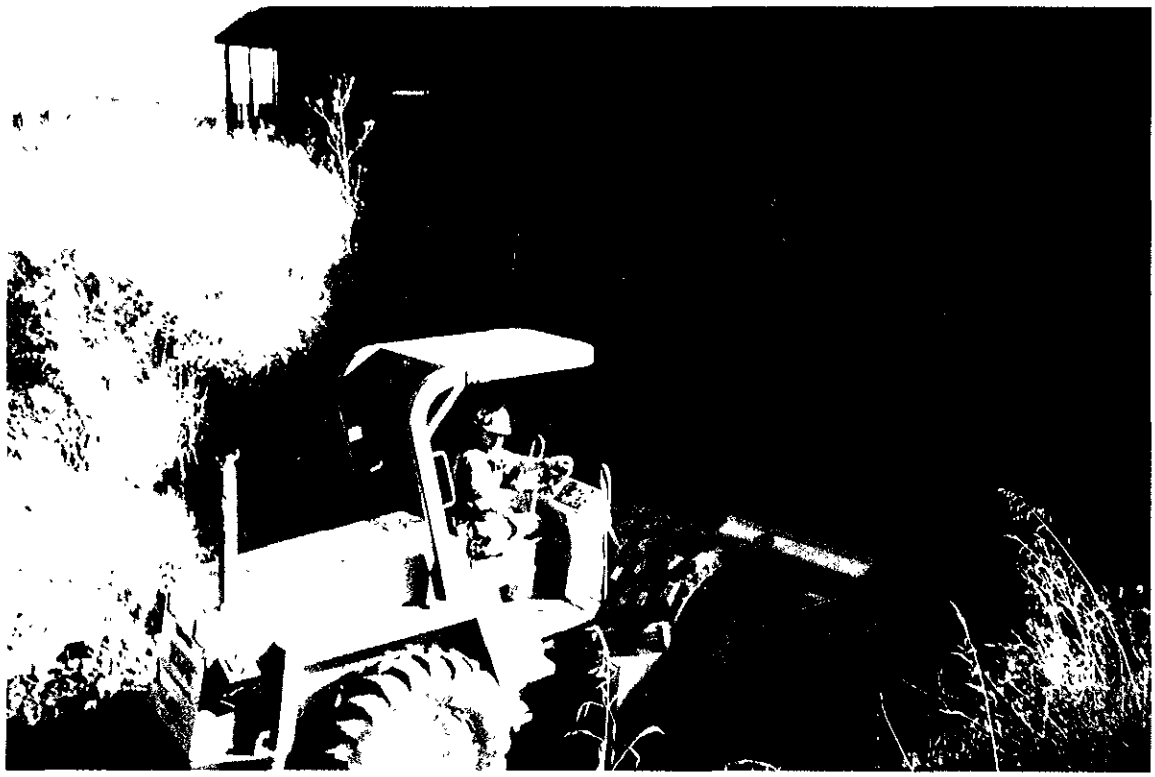


Plate 15 - Viewing into UST 18 & 19 excavation at backfill compaction activities.

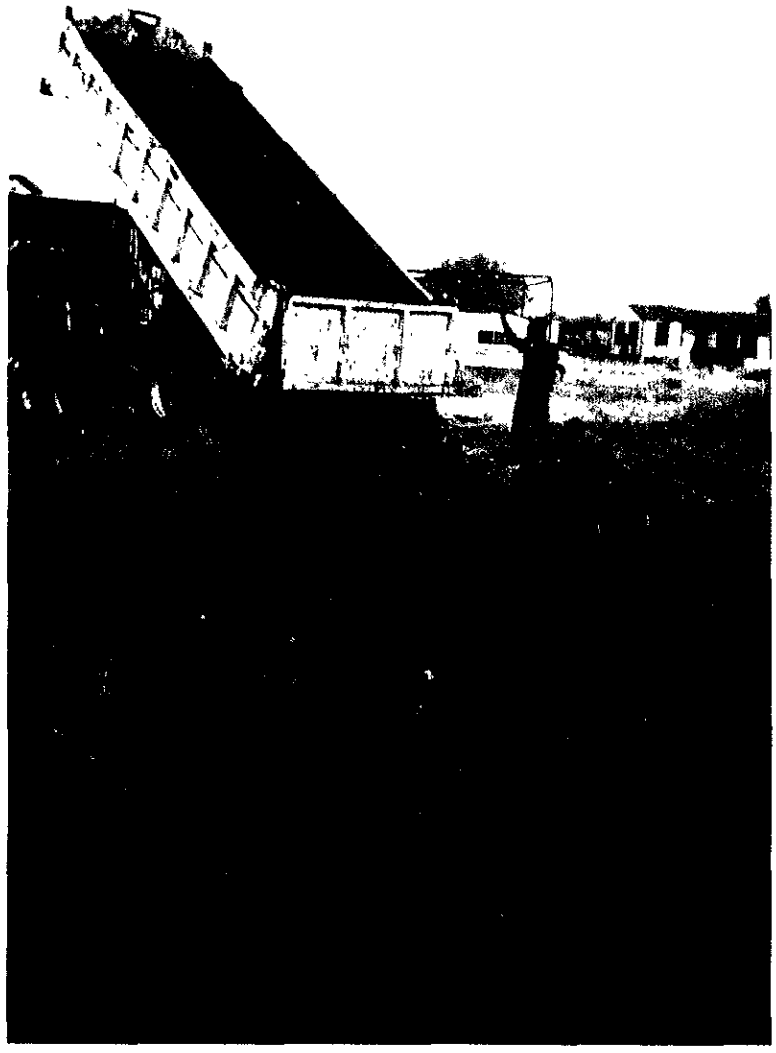


Plate 16 - Viewing toward north at unloading of clean imported fill into the UST 18 & 19 excavation prior to spreading and compaction.

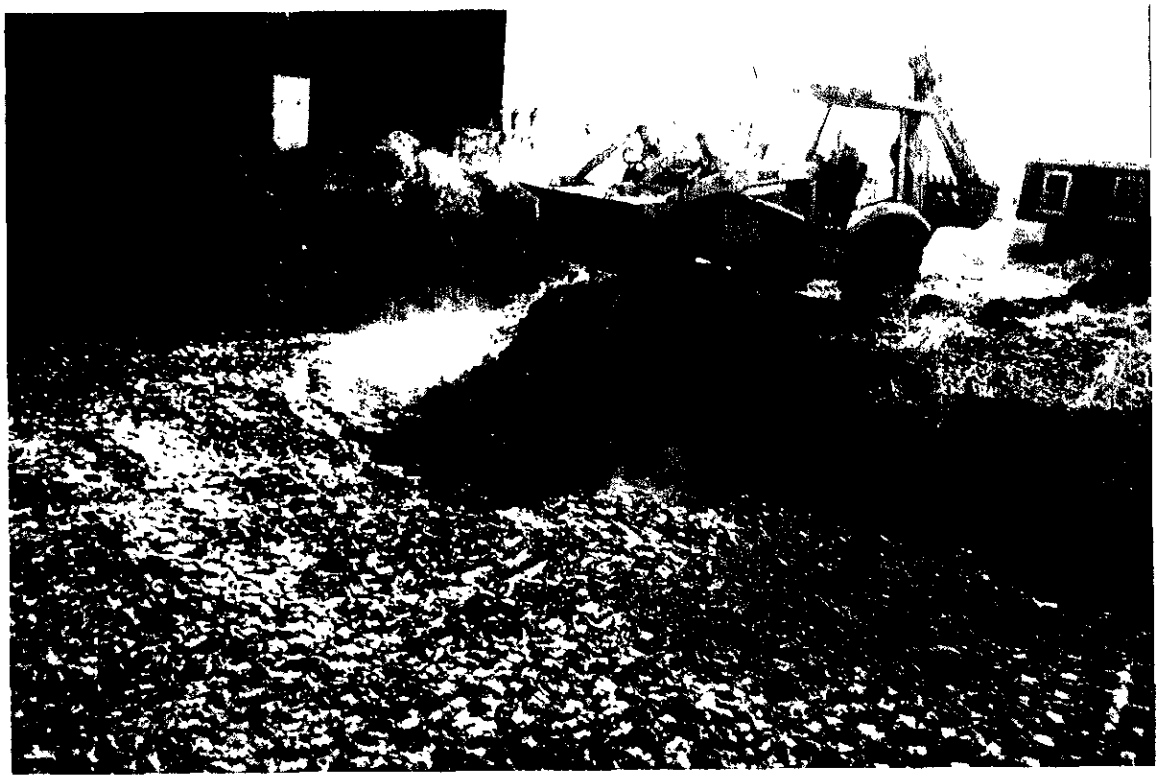


Plate 17 - Viewing toward southeast at surface of hydrated and compacted clean fill material in UST 18 & 19 excavation.

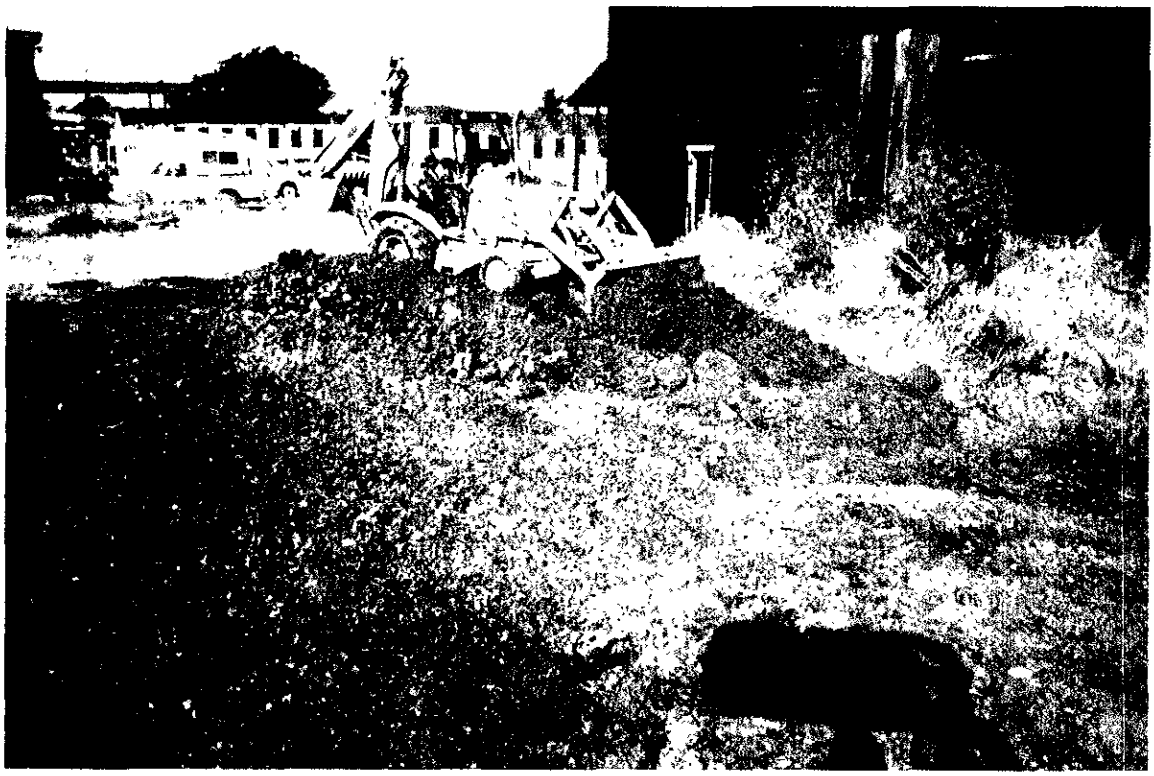


Plate 18 - Viewing towards northeast at clean fill at grade over the former UST 18 & 19 excavation.

Plate 19 - Viewing toward northeast at final grade over the east portion of the former UST 18 & 19 excavation .

Plate 20 - Viewing toward north at final grade over the west portion of the UST 18 & 19 excavation.

ATTACHMENT 2

HCSA LETTER

95-7087

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

SEP 28 1995

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

STID 5541

September 25, 1995

Mr. Rod Freitag
Alameda County General Services Agency
Engineering & Environmental Management Dept.
1401 Lakeside Drive, 11th Floor
Oakland, CA 94612

RE: SANTA RITA - FORMER MILITARY HOSPITAL SITE, USTs #18 & 19

Dear Mr. Freitag:

This office has reviewed the September 12, 1995 Versar, Inc. (Versar) report evaluating the results of the sampling of stockpiled material presently located at the noted Santa Rita subsite. As you are aware, the subject stockpiles are comprised of material derived from the UST 18/19 closures (~160 yds^3), ~200 yds^3 excavated during tank closures at the "Old Graystone" fueling complex, and ~100 yds^3 of surplus backfill material from the Highland Hospital (Oakland) tank removal. Each stockpile contains some residual concentrations (≤360 ppm) of petroleum oil and grease and/or diesel-range fuel compounds. Fuel aromatic compounds were not detected.

Versar reportedly evaluated the subject analytical results in context with other sampling data generated in preparation to perform leachability studies (SESOIL) for materials derived from two other Santa Rita subsites during previous tank closures. These data were compared in order to extrapolate leachability and vertical transport potential of the subject soil stockpiles should they be reintroduced to the site at grade.

Versar reports that, based on their data extrapolation, the subject stockpiled material may be spread on site without adversely affecting underlying ground water. Versar concludes that such material could be safely spread in areas slated for commercial or industrial development, and that reintroduction of this material to areas of the site planned for *residential* development is <u>not</u> recommended in the absence of a human health risk evaluation.

This office concurs with this evaluation. Therefore, the subject material may be reintroduced at grade to the site of origin (Santa Rita) in areas anticipated for commercial or industrial development.

Please contact me at 510/567-6783 should you have any questions.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Jun Makishima, Acting Agency Director
Kevin Graves, RWQCB
Tom Peacock, ACDEH
Rob Weston, ACDEH
Jim Ferdinand, Alameda County Fire Department

ATTACHMENT 3

LABORATORY REPORT WITH CHAIN OF CUSTODY DOCUMENTATION

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

09/27/93

Dear Bart:

Enclosed are:

1). the results of 4 samples from your # 6-93-5077; Alameda Co. GSA, Santa Rita, Dublin project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

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

Environmental Science & Eng.	Client Project ID: # 6-93-5077; Alameda Co. GSA, Santa Rita, Dublin	Date Sampled: 09/24/93
4090 Nelson Avenue, Suite J		Date Received: 09/24/93
Concord, CA 94520	Client Contact: Bart Miller, Peter Kinney	Date Extracted: 09/24/93
	Client P.O: Alameda County 141-0-7925-00	Date Analyzed: 09/24/93

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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)+	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
32355	SP- 1-4	S	ND	ND	ND	ND	ND	110
32356	SP- 5-8	S	ND	ND	ND	ND	ND	98
32357	SP- 9-12	S	ND	ND	ND	ND	ND	97
32358	SP- 13-16	S	ND	ND	ND	ND	ND	93
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

" cluttered chromatogram; sample peak co-elutes 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 are significant; no recognizable pattern; 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 phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng.	Client Project ID: # 6-93-5077; Alameda Co. GSA, Santa Rita, Dublin	Date Sampled: 09/24/93
4090 Nelson Avenue, Suite J		Date Received: 09/24/93
Concord, CA 94520	Client Contact: Bart Miller, Peter Kinney	Date Extracted: 09/24/93
	Client P.O: Alameda County 141-0-7925-00	Date Analyzed: 09/24/93

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
32355	SP- 1-4	S	ND	103
32356	SP- 5-8	S	ND	102
32357	SP- 9-12	S	ND	102
32358	SP- 13-16	S	ND	102
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	
		S	10 mg/kg	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ 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) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are 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 phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6-93-5077; Alameda Co. GSA, Santa Rita, Dublin	Date Sampled: 09/24/93
		Date Received: 09/24/93
	Client Contact: Bart Miller,Peter Kinney	Date Extracted: 09/24/93
	Client P.O: Alameda County 141-0-7925-00	Date Analyzed: 09/24/93

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 B/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease
32355	SP- 1-4	S	ND
32356	SP- 5-8	S	ND
32357	SP- 9-12	S	ND
32358	SP- 13-16	S	ND
Detection Limit unless otherwise stated; ND means Not Detected		W	5 mg/L
		S	50 mg/kg

*water samples are reported in mg/L and soils in mg/kg

DHS Certification No. 1644

Edward Hamilton, Lab Director

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/24/93 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	1.985	1.962	2.03	98	97	1.1
Benzene	0.000	0.172	0.184	0.2	86	92	6.7
Toluene	0.000	0.178	0.194	0.2	89	97	8.6
Ethyl Benzene	0.000	0.174	0.186	0.2	87	93	6.7
Xylenes	0.000	0.552	0.582	0.6	92	97	5.3
TPH (diesel)	0	309	315	300	103	105	1.9
TRPH (oil & grease)	0.0	209.0	210.0	200	105	105	0.5

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

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

4 of 31

CHAIN OF CUSTODY RECORD

DATE September 24, 1993 PAGE 1 OF 2

PROJECT NAME ALAMEDA COUNTY GSA

ADDRESS SANTA RITA CORRECTIONAL FACILITY, DUBLIN, CA

PROJECT NO. 6-93-5077

SAMPLED BY BART MILLER

LAB NAME M. CAMPBELL ANALYTICAL

Environmental Science & Engineering, Inc.

Phone (510) 895-5331

Fax (510) 895-7307

SAMPLE #	DATE	TIME	LOCATION	TPH-g (8015m)	TPH-d (8015m)	BTEX (8020)	TOG (SM5520) Gravimetric	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
SP-1	9/24/93	8:45	GLEASON DR. STOCKPILE	✓	✓	✓	✓	SOIL	1	
SP-2	"	8:54	"	✓	✓	✓	✓	"	1	COMPOSITE FOUR SAMPLES
SP-3	"	9:10	"	✓	✓	✓	✓	"	1	FOR ANALYSES
SP-4	"	9:20	"	✓	✓	✓	✓	"	1	
SP-5	"	9:30	"	✓	✓	✓	✓	"	1	
SP-6	"	9:40	"	✓	✓	✓	✓	"	1	COMPOSITE FOUR SAMPLES
SP-7	"	9:50	"	✓	✓	✓	✓	"	1	FOR ANALYSES
SP-8	"	10:02	"	✓	✓	✓	✓	"	1	
SP-9	"	10:10	"	✓	✓	✓	✓	"	1	
SP-10	"	10:19	"	✓	✓	✓	✓	"	1	COMPOSITE FOUR SAMPLES
SP-11	"	10:25	"	✓	✓	✓	✓	"	1	FOR ANALYSES
SP-12	"	10:32	"	✓	✓	✓	✓	"	1	

32355

32356

32357

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
1.			
2.		9/24	13:40
3.			
4.			
5.			

12 TOTAL NUMBER OF CONTAINERS

VOAs | O&G | METALS | OTHER

PRESERVATIVE

CONTAINERS

ICE/T ✓

GOOD CONDITION ✓

HEAD SPACE ABSENT ✓

APPROPRIATE ✓

REPORT RESULTS TO:
FAX: BART MILLER, ESE
PETER KUWEI, GSA
FINAL: BART MILLER ESE

SPECIAL SHIPMENT REQUIREMENTS
COLD TRANSPORT

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):
24 hour T.A.T.

SAMPLE RECEIPT

CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	
CONFORMS TO RECORD	

CHAIN OF CUSTODY RECORD

DATE SEPTEMBER 24, 1993 PAGE 2 OF 2

PROJECT NAME ALAMEDA COUNTY GSA

ADDRESS SANTA RITA CORRECTIONAL FACILITY, DUBLIN, CA

PROJECT NO. 6-93-5077

SAMPLED BY BART MILLER

LAB NAME McCAMPBELL ANALYTICAL

Environmental Science & Engineering, Inc.
Phone (510) 685-4651
Fax (510) 685-0123

SAMPLE #	DATE	TIME	LOCATION	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
A-13	9/24/93	10:40	BLEASDALE STOCKPILE	SOIL	1	COMPOSITE 4 SAMPLES FOR ANALYSES
A-14	"	10:45	"	"	1	
A-15	"	10:52	"	"	1	
A-16	"	10:59	"	"	1	

ANALYSES TO BE PERFORMED: TPH-g (8015m), TPH-d (8015m), BTEX (8020), TOG (SM5520), Lynnette, 32358

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

VOAS | O&G | METALS | OTHER

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
[signature]	[signature]	9/24	13:40

4 TOTAL NUMBER OF CONTAINERS

REPORT RESULTS TO: FAX: BART MILLER, CSE; PETER KINNEY, GSA; FAX: BART MILLER, CSE

SPECIAL SHIPMENT REQUIREMENTS: COLD TRANSPORT

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):
24 hour T.A.T.

SAMPLE RECEIPT

CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	
CONFORMS TO RECORD	