# HEALTH CARE SERVICES

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

CC4586

May 26, 1995

Alameda County Environmental Protection División 1131 Harbor Bay Parkway, Room 250 Alameda CA 94502-6577

STID 2678

#### REMEDIAL ACTION COMPLETION CERTIFICATE

B.F. Ltd % Author Gilbert 9560 Wilshire Boulevard Beverly Hills, CA 90212

RE: NORTH AMERICAN TOOL AND DIE, INC., 2025 PIKE AVENUE, SAN LEANDRO

Dear Mr. Gilbert:

This letter confirms the completion of site investigation and remedial action associated with the single underground fuel storage tank at the referenced location.

Based on the available information, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely, Palic A Shahu

Rafat A. Shahid

Director of Environmental Services

cc: Edgar B. Howell, Chief, Environmental Protection Division Kevin Graves, RWQCB
Mike Harper, SWRCB
Mike Bakaldin, San Leandro Fire Department
Files ( 505

Date: 05/02/95

#### CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

#### I. AGENCY INFORMATION

Address: 1131 Harbor Bay Pkwy #250 Alameda County-EPD Agency name:

City/State/Zip: Alameda, CA 94502 (510) 567-6700 Phone:

Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

#### II. CASE INFORMATION

Site facility name: North American Tool & Die, Inc. Site facility address: 2025 Pike Ave., San Leandro, CA 94577

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2678 URF filing date: 3-17-95 SWEEPS No: N/A

#### Phone Numbers: Addresses: Responsible Parties:

9560 Wilshire Blvd. B F Ltd.

Beverly Hills, CA 90212 % Author Gilbert

Closed in-place Date: Contents: <u>Tank</u> Size in or removed?: No: gal.; gas / diesel removed 1984 8000 1

#### RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: (apparent) piping/dispenser leak

Site characterization complete? YES

Date approved by oversight agency: NA

Number: 5 Monitoring Wells installed? YES

Proper screened interval? YES

Highest GW depth below ground surface: 2.40' Lowest depth: 3.70'

Flow direction: SW ↔ NW

Most sensitive current use: industrial

Aquifer name: San Leandro Cone Are drinking water wells affected? NO

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations):

#### Page 2 of 5

#### Leaking Underground Fuel Storage Tank Program

Report(s) on file? YES Where is report filed? Alameda County
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

TT GG CWGIIC GII	r probobur or irr		
Material	Amount	<u> Action (Treatment</u>	<u>Date</u>
	(include units)	of Disposal w/destination)	
Tank	8000 gallons	UNK	12/84
Piping	UNK	ιτ	12/84 (?)
Free Product	U	fl	
Soil	$75 \text{ yds}^3$	treatment/disposal-	11/92-
	•	BFI, Livermore, CA	1/93
Groundwater	770 gallons	<u>disposal</u> - Gibson Env.	12/8/93
	2	Redwood City, CA	

# III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (p	pm)	Water (	(dge
	Before	After	<u>Before</u>	<u> After</u>
TPH (Gas)	UNK	1100¹	11,000³	ND
TPH (Diesel)	11	$NA^2$	NA	NA
Benzene	, <b>11</b>	5.9 <sup>1</sup>	460	ND
Toluene	tt	25	730	11
Xylene	<b>ti</b>	19	220	1.1
Ethylbenzene	II	120	2200	ND

#### NOTE:

- 1 "After" TPH-G and BTEX soil concentrations are for sidewall soil sample JSEX-5-4 collected from the resulting excavation following pit over-excavation, below the base of the building/loading ramp at a depth of 4' below grade (BG).
- 2 Soil was not tested for TPH-D concentrations following over-excavation.
- 3 "Before" water samples are for those collected from MW-4, subsequently destroyed due to compromised construction.

#### Comments (Depth of Remediation, etc.):

A single 8000 gallon fuel (gasoline and/or diesel) UST was reportedly removed at sometime during December 1984. Records documenting <u>any</u> aspect of UST removal activities, including soil or ground water (GW) sampling and UST disposal, have reportedly not been discovered. What is reported, however, is that the UST was apparently removed "due to a leak."

During 1/93 a geophysical study was performed to verify that the UST had, in fact, been removed. The results of this study reportedly confirmed the removal of the subject UST and associated piping.

Several phases of soil (CPT) and initial GW studies were conducted.

#### Page 3 of 5

#### Leaking Underground Fuel Storage Tank Program

Shallow soil contamination of up to 1700 ppm TPH-G (boring SB1 @ 4' BG) was identified. Based on the results of these preliminary investigations and the physical locations of the former dispenser and piping, it was concluded that piping leaks and/or overspills had been the source of the soil contamination beginning at shallow depth and extending to  $\leq$  4-6' BG, located between the former UST pit and building.

A plan to excavate affected shallow soil was presented and implemented during late November and early December 1993. Soil was excavated to a depth of approximately 6 - 6½' BG. Approximately 75 yds<sup>3</sup> of material were excavated.

During excavation sand/gravel fill was reportedly encountered below pavement to ~6" BG. Dark gray CLAY was encountered to the total depth excavated. Hydrocarbon (HC) odors and occasional "sheen" were noted. Water seeped into the excavation beginning @ ~ 4' BG, apparently originating from the sand backfill of the former UST pit. The native CLAY reportedly did not appear to be water-bearing.

Four (4) soil samples were collected from the base of the resulting excavation, and two (2) from the final excavation sidewalls. Sidewall samples were collected from a depth of ~4' BG directly below the building and loading ramp foundations. All bottom samples exhibited only low concentrations (< 22 ppm) TPH-G and benzene (< 0.15 ppm). Sidewall samples indicate that up to 1100 ppm TPH-G and 5.9 ppm benzene remain in place.

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommisioned: YES

Number Decommissioned: 1 Number Retained: 4, pending case closure

List enforcement actions taken: NONE

List enforcement actions rescinded: NONE

#### Page 4 of 5

## Leaking Underground Fuel Storage Tank Program

LOCAL AGENCY REPRESENTATIVE DATA ٧.

Scott Seery Name: Signature:

Title: Sr. Haz Mat Specialist

Date: 5-2-85

Reviewed by

Name: Bakney Chan

Signature:

Juliet Shin Signature:

Name:

Title: Haz Mat Specialist

Date: 5/2195

Title: Sr. Haz Mat Specialist

Date:

RWOCB NOTIFICATION VI.

Date Submitted to RB: 5-2-95
RWQCB Staff Name Mevin Graves

RB Response:

RB Response: Myvov Title: San. Engineering Assoc. Date:

ADDITIONAL COMMENTS, DATA, ETC.

Preliminary data submitted by I.T. Corp (IT) reportedly from an initial assessment performed by IT sometime during late December 1992 and/or January 1993 indicate the presence of TPH-D range compounds in a soil sample collected from CPT point #6, one of several reportedly emplaced. The lab apparently indicated the chromatogram did not match a typical diesel pattern, however. A final report from IT presenting these data in final form (with supporting documents) was not submitted. Shortly thereafter SEACOR took over the project at this site.

SEACOR's 4/29/93 report states that during the referenced IT study, five (5) CPTs were advanced adjacent to the UST pit. Total depth was between 14.5 to 16' BG. Both soil and GW were reportedly collected from each point. GW was encountered @ ~ 12' BG. Part per million range TPH-G/D and BTEX were reportedly detected in sampled GW. No supporting documents (i.e., lab reports, logs, etc.) were presented by SEACOR in their summary of the IT work.

During March and April 1993, SEACOR advanced seven (7) additional soil borings and constructed three (3) monitoring wells at the site. Continuous coring techniques were used.

Shallow soil contamination was identified adjacent to the former UST pit, between the pit and building. GW appeared to be under confined conditions. One grab GW sample collected from boring SB-2 exhibited 1200 ug/l TPH-G and 3.1 ug/l benzene. GW samples collected from each of the 3 wells indicate single peaks in the chromatograms identified as "...a non-gasoline matrix interferant in the gasoline range." Benzene was noted in MW-3 at 1.1 ug/l.

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### Leaking Underground Fuel Storage Tank Program

Based on DTW data from the initial set of 3 wells, GW flow was calculated towards the southeast on 4/5/93. Such suggested that <u>none</u> of the wells were located downgradient of the apparent source.

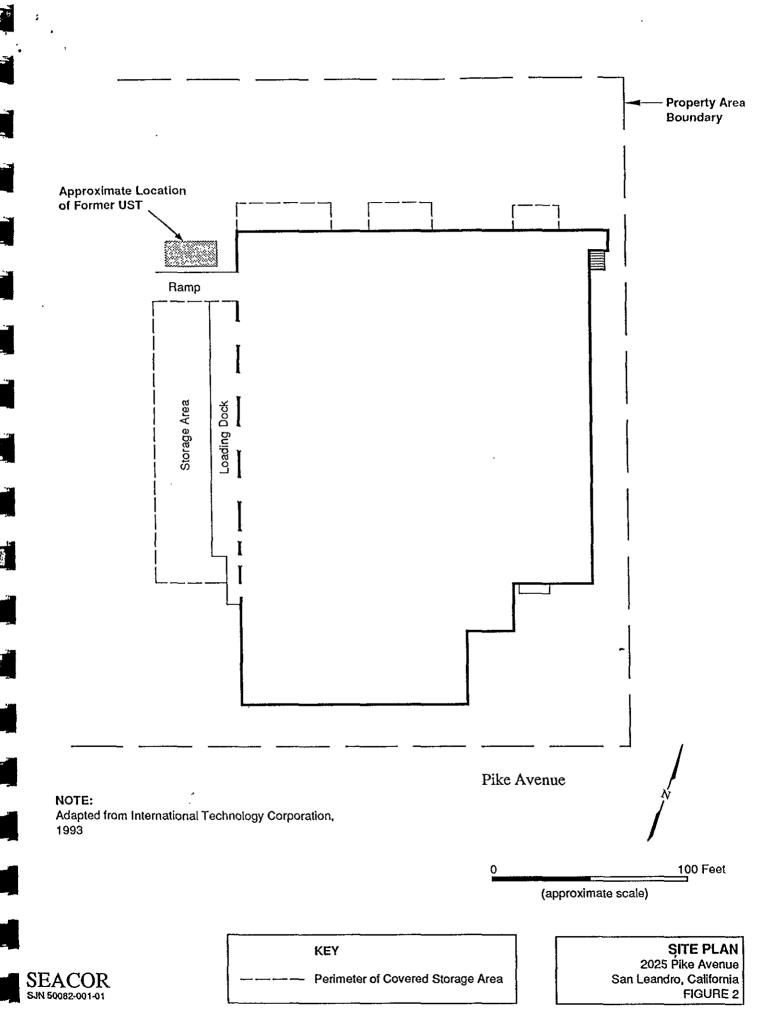
During Nov. and Dec. 1993, SEACOR initiated shallow soil excavation in which ~75 yds³ of contaminated soil were removed, treated at an adjoining site (Coca-Cola Co.) at grade, and eventually disposed at BFI Vasco Road landfill, Livermore. Approximately 770 gallons of GW were vacuumed from the excavation, transported by Integrated Wastestream Management (Milpitas), and disposed at Gibson Environmental, Redwood City, for treatment.

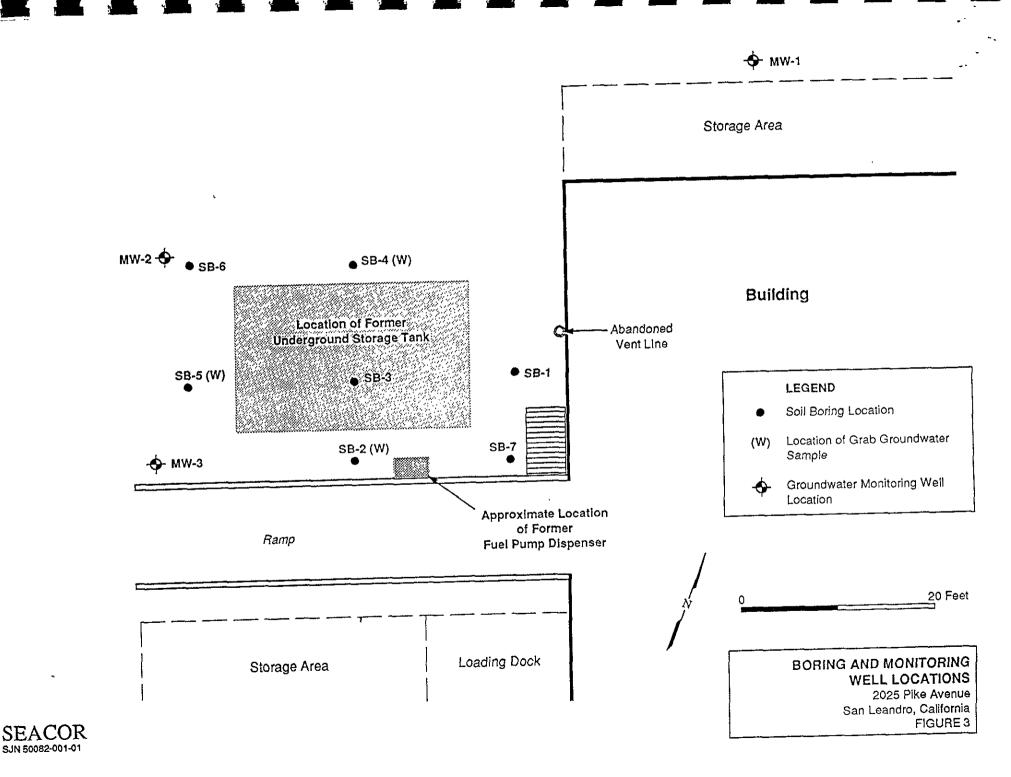
Following soil removal activities, an additional well, MW-4, was installed through the former tank pit. Initial GW samples were very "hot" (11,000 ug/l TPH-G; 460 ug/l benzene, etc.). Review of boring and well construction logs illustrated that the well filter pack was in hydraulic contact with the permeable UST pit backfill (present above the base of the confining clay unit) through which the well was constructed. Such a configuration allowed water that had collected in the former UST pit to infiltrate into well MW-4, reportedly skewing the sample data by showing contaminant concentrations which were not indicative of ambient GW conditions.

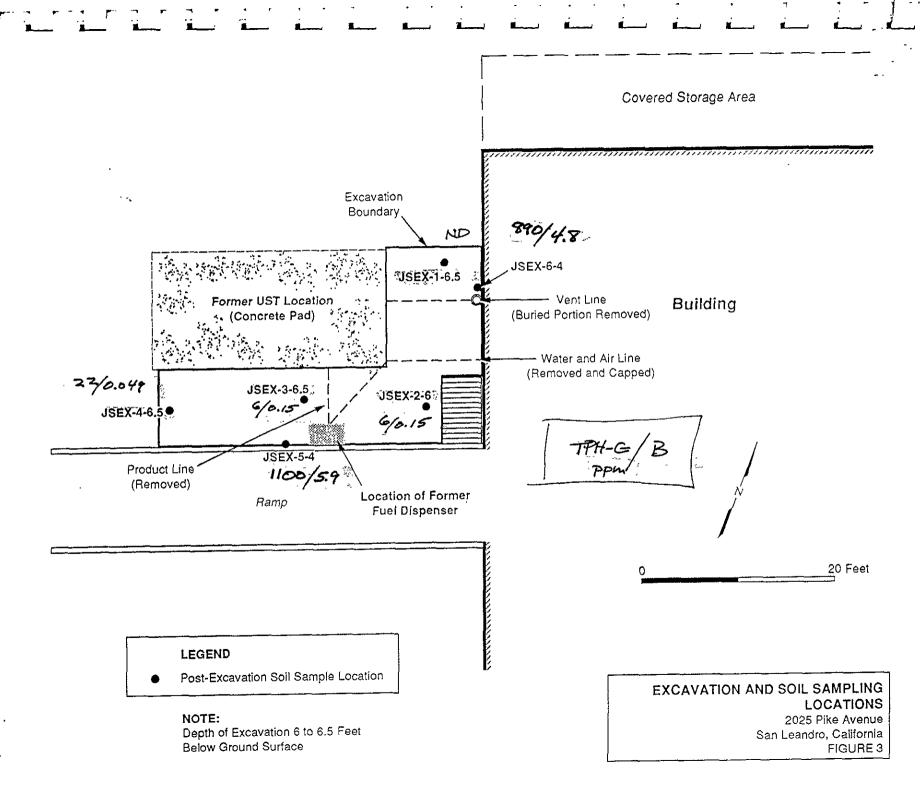
Well MW-4 was subsequently destroyed and replaced by well MW-4A. MW-4A was constructed to preclude infiltration by pit water. Initial samples collected from this well were ND for all compounds. Data provided by the 4 well network indicates GW to be towards the west ↔ north, more consistent with expected flow directions based on the regional flow, and contrary with initial calculations. Subsequent gradient determinations were similar, ranging from SW to NW through completion of the project.

Analyses of GW collected quarterly from each of the 4 wells between March and September 1994 indicate, with one exception, "ND" results for each analyte sought. The noted exception occurred during the 9/94 event in which toluene was noted in GW collected from wells MW-1, -2, and -4A. However, toluene was also detected in the QA/QC trip blank sample, suggesting probable lab contamination.

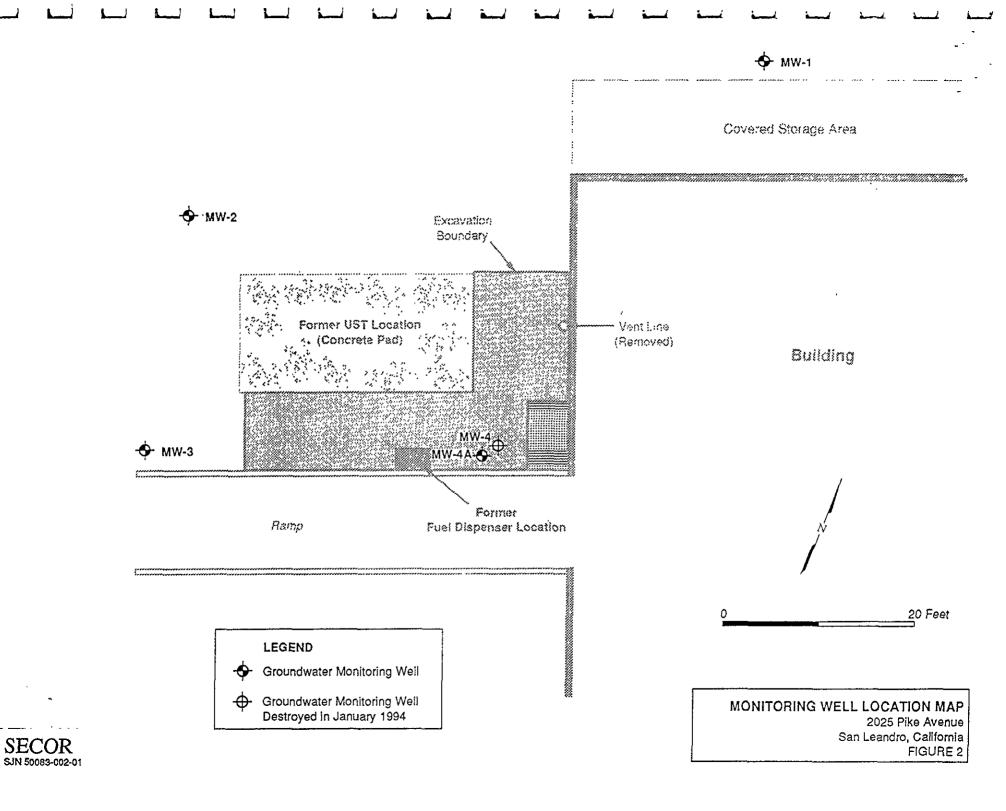
In addition, this site is located within a mapped HVOC plumes identified during Cal EPA's (DTSC) central San Leandro study. The laboratory performing the GW analyses during this investigation has consistently identified the presence of non-gasoline, single peak interferants in the TPH-G chromatograms. The presence of single peak interferants in the TPH-G range is consistent with the presence of HVOCs. Such required the raising of detection limits for this analyte as high as 500 ug/l to accommodate this interferant.

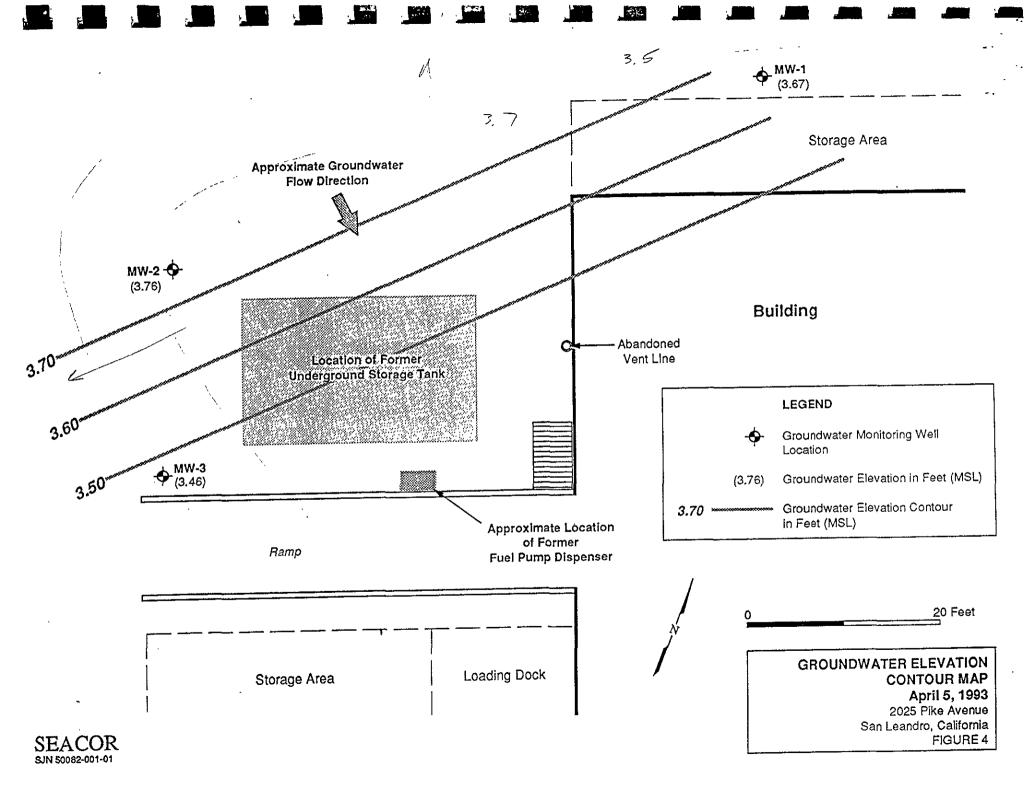


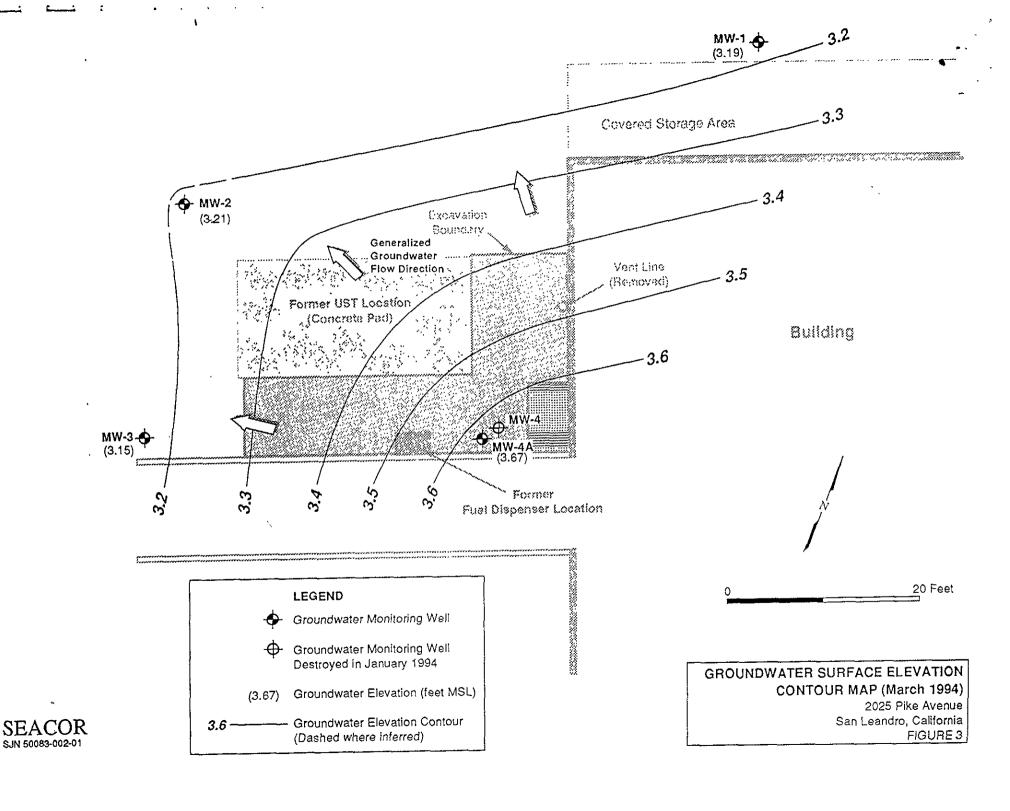


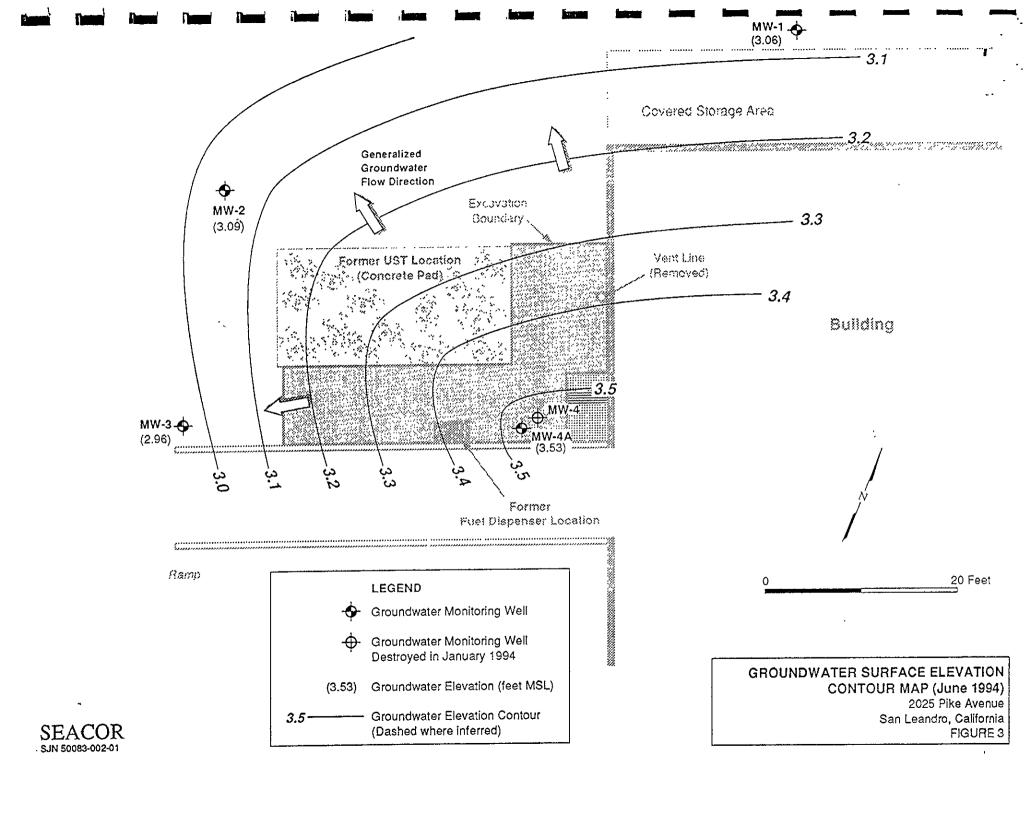


SEACOR SJN 50083-002-01









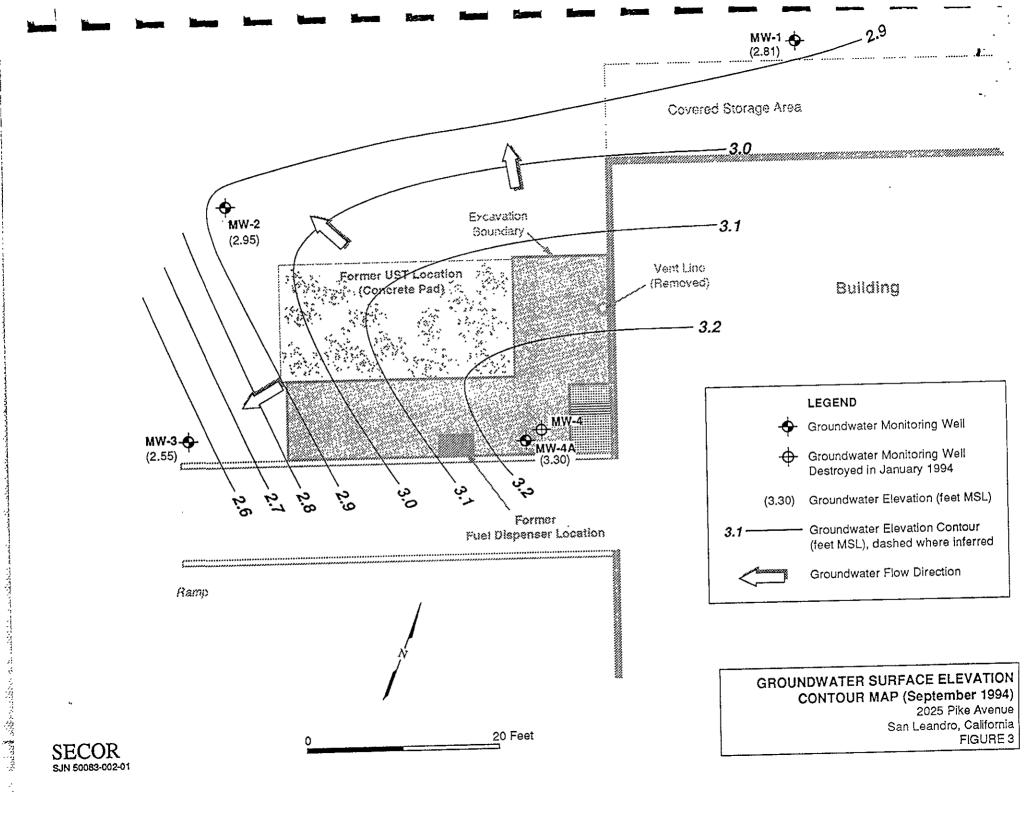


TABLE 1 Chemical Testing Results for Post-Excavation Soil Samples

2025 Pike Avenue San Leandro, California

SIDELDALL	

Sample No.	JSEX-1-6.5	JSEX-2-6	JSEX-3-6.5	JSEX-4-6.5	JSEX-5-4	JSEX-6-4
Sample Depth (ft/bgs)	6.5	6	6.5	6.5	4	4
TPHg (mg/kg)	ND<1	6	6	22	<b>€1,100</b>	890
Benzene (mg/kg)	ND<.005	0.15	0.15	0.049	5.9	4.8
Toluene (mg/kg)	ND<.005	0.053 -	0.16	0.32	25	13
Ethylbenzene (mg/kg)	ND<.005	0.12	0.17	0.43	19	21
Xylenes (mg/kg)	ND<.005	0.34	0.74	2.0	120	120

## Notes:

- (1) feet bgs: feet below ground surface
- TPHg: total petroleum hydrocarbons as gasoline (EPA Method 8015, Modified). Samples JSEX-5-4 and JSEX-6-4 were collected from excavation sidewalls. (2)
- (3)
- ND: not detected at detection limit indicated. (4)

JORGEN.TB1 50083-001-01;PK07

TABLE 2
Analytical Results for Soil Samples
2025 Pike Avenue
San Leandro, California

SAMPLE NUMBER	SAMPLE DEPTH	TPHg (mg/kg)	TPHd (mg/kg)	BENZENE (mg/kg)	TOLÜENE (mg/kg)	ETHYLBENZENE (mg/kg)	XYLENES (mg/kg)
	(ft)	1700	84*	1.3	30	24	160
SB1-4	4		<del> </del>	ND	ND	0.029	0.010
SB1-9	9	2	ND	ND	0.006	0.007	0.057
SB1-16	16	ND	ND		0.35	0.35	1.1
SB2-6	6	16	ND	0.19	0.009	0.006	0.030
SB2-10	10	ND	ND	ND	<del> </del>	ND	ND
SB2-15	14.5	ND	ND	ND	ND	ND	ND
SB4-6	5.5	ND	ND	ND	ND	ND	ND
SB4-11	11	ND	ND	ND	ND	<del> </del>	ND
SB4-17	14	ND	ND	ND	, ND	ND	ND
SB5-6	5.5	ND	ND	ND	ND	ND	
SB5-11	11	ND	ND	ND	ND	ND	ND
	17	ND	ND	ND	ND	ND	ND
SB5-17	5.5	ND	ND	ND	ND	ND	ND
SB6-6 SB6-11	11	ND	'ND	ND	ND	ND	ND

# TABLE 2 (continued) Analytical Results for Soil Samples 2025 Pike Avenue San Leandro, California

SAMPLE NUMBER	SAMPLE DEPTH (ft)	TPHg (mg/kg)	(mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	XYLENES (mg/kg)
SB6-15	14	ND	ND	ND	ND	ND	ND
SB7-6	5.5	75	ND	0.29	0.61	1.1	5.5
SB7-11	11	ND	ND	ND	ND	ND	ND
SB7-16	14.5	ND	ND	ND	ND	ND	ND
MW1-10	10	ND	ND	ND	ND	ND	ND
MW2-10	10	ND	ND	ND	ND	ND	ND
MW3-10	10	ND	ND	ND	ND	ND	ND

#### Notes:

TPHg: total petroleum hydrocarbons as gasoline TPHd: total petroleum hydrocarbons as diesel

TPHd: total petroleum hydrocarbons as diesel

ND: total petroleum hydrocarbons as diesel

not detected above the following laboratory reporting limits: 1 mg/kg for TPHg, 10 mg/kg for TPHd and 0.003 to

0.009 mg/kg for BTEX

mg/kg: milligrams per kilogram or parts per million
\*: Does not match diesel standard pattern

JOGENSEN.TB2 50083-001-01; PK07

TABLE 3 Analytical Results for Water Samples 2025 Pike Avenue San Leandro, California

SAMPLE NUMBER	TPHg (µg/l)	ŤΡHd (μg/l)	BENZÉNÉ (µg/l)	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	XYLENES (μg/l)
SB-2	1200	ND	3.1	36	21	100
SB-2(dup) <sup>(1)</sup>	890	55*	2.4	28	16	59
SB-2(dup)**	ND**>	ND	ND	ND	ND	ND
SB-5	ND**>	ND	ND	ND	ND	ND
	ND** >	ND	ND	ND	ND	ND
MW-1		ND	ND	ND	ND	ND
MW-2	ND***	ND	1.1	ND	ND	ND
MW-3	ND**		1.0	100	680	1,750
MCLs	NA	NA	1.0	100		

#### Notes:

50  $\mu g/\ell$  for TPHg and TPHd and 0.3 to 0.9  $\mu g/\ell$  for not detected above the following laboratory reporting limits: ND:

BTEX

micrograms per liter  $\mu g/\ell$ :

Does not match typical diesel pattern. Pattern of peaks indicative of hydrocarbons lighter than diesel.

Single peak in chromotogram. Detection limit increased to between 200 and 750 µg/ℓ due to non-gasoline matrix **资\*\***\*

interferant in the gasoline range. The blind duplicate sample for SB-2 was identified to the laboratory as SB-8

(1): not applicable NA:

TABLE 3
Current and Historic Water Quality Data
2025 Pike Avenue
San Leandro, California

WELL	SAMPLE DATE	TPHd (ug/l)	TPHg (ug/l)	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYLBENZENE (ug/l)	XYLENES (ug/l)
MW-1	04/05/93	ND < 50	ND < 600*	ND < 0.3	ND < 0.3	ND < 0.3	ND < 0.9
	12/20/93	NA	ND < 400*	ND < 0.5	0.7	ND < 0.5	ND < 0.5
	03/25/94	NA	ND < 500*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	09/09/94	NA	ND < 500*	ND < 0.5	1.1**	ND < 0.5	ND < 0.5
MW-2	04/05/93	ND < 50	ND < 300*	ND < 0.3	ND < 0.3	ND < 0.3	ND < 0.9
	12/20/93	NA	ND < 200*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	03/25/94	NA	ND < 500*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	09/09/94	NA	ND < 250*	ND < 0.5	0.6**	ND < 0.5	ND < 0.5
MW-3	04/05/93	ND < 50	ND < 200*	1.1	ND < 0.3	ND < 0.3	ND < 0.9
	12/20/93	NA	ND < 100*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	03/25/94	NA	ND < 500*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	09/09/94	NA	ND < 250*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
MW-4	12/20/93	NA	11,000	460	730	220	2200
MW-4A	02/01/94	NA	ND < 500*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	03/25/94	NA	ND < 500*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	06/13/94	NA	ND < 300*	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	09/09/94	NA	ND < 500*	ND < 0.5	0.7**	ND < 0.5	ND < 0.5
Trip Blank	04/05/93	NA	ND < 50	ND < 0.3	ND < 0.3	ND < 0.3	ND < 0.9
	12/20/93	NA	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	03/25/94	NA	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	09/09/94	NA	ND < 50	ND < 0.5	0.6	ND < 0.5	ND < 0.5

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Project: Boring Lo			ee Figure				Project No.: 50083-001-0	01	MW-1
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			alifornia S			Monitoring Device	ze: OVM 560B	Comments :	
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MW-2-10	31	0	10 -		¥.	TAN AND BROWN	GOATE, OLE (ME, DESTROY	gi			Bentonite Pellets
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DEVICE UV.	2E	LA.		JK					Date:		

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Log of Boring/ Monitoring Well: Project: Earle M. Jorgenson - San Leandro, CA Page 1 of 1 Project No.: 50082-002-01 Boring Location: 2025 Pike Avenue, San Leandro **MW-4** Logged By: S.E.B. Subcontractor and Equipment: Great Sierra Exploration Comments: CA Mod. Split Spoon FID Sampling Method: Monitoring Device: 12/17/93 12/17/93 Start Date/ Time: Finish Date/ Time: First Water (BGS): 9 Feet Stabilized Water Level (BGS): Surface Elevation: 6.73 Casing Top Elevation; 6.30 **USCS Symbol** FID (ppm) Blows/foot Sample I Boring Abandonment/ Well Construction Details LITHOLOGIC DESCRIPTION G-5 Christy Box REDDISH BROWN SANDY CLAY (CL) with gravel, moist (FILL) Sch 40 PCV Blank Casing GREY PEA GRAVEL, wet (FILL) LIGHT GRAY CLAY (CL), trace coarse sand to fine gravel, rounded to subrounded, MW-4-1 12 0 rootlets, moist, no petroleum odor 2-inch MW-4-2 8 0 2-inch PVC Screen (0.020-inch DARK YELLOWISH BROWN SILTY SAND (SM), very fine to fine-grained, 5-10% fine gravel, wet, no petroleum odor MW-4-3 11 0 DARK YELLOWISH BROWN SANDY SILT (ML), trace coarse sand to fine gravel, MW-4-4 32 0 moist, no petroleum odor End Cap 20 21 22 23 24 25 26 27 28 **SEACOR** Reviewed by: Date:

	Project:	Earle	е М	lorgenson	- Sar	Leandro	o, CA	<del></del>		Log of Boring/ Mo	onitoring Well: Page 1 of 1
<u> </u>				5 Pike Aver					0083-002-01	]	MW-4A
	Subcontra	ctor an		pment:: Gre			1	Logged By:	Robitaille	Comments :	
	Sampling	Method		A Mod. Spli	t Spo	on	Monitoring Devic				-4A located 6 feet west of
1	Start Date	/ Time:	: 0	1-28-94			Finish Date/ Time	e: 01-28 <b>-</b> 94			ner well MW-4
14	First Wate	er (BGS	S):	<del></del>	<u> — т</u>		Stabilized Water		<del></del>	<u> </u>	
	Sample No.	Blows/foot	FID (ppm)	Depth (feet)	USCS Symbol	Surface Ele	evation: 6.62	Casin DLOGIC DESC	g Top Elevation:	6.18	Boring Abandonment/ Well Construction Details G-5 Christy Box
	San	Blo	FID	1	+	GREY PEA  DARK GRE laint gasolin  GREENISH  grades w  BROWN (1)  DARK BROWN (1)	BROWN SANDY SILE  GRAVEL, wet (FIL.  EY (N/4) CLAY (CL)  ne odor, (0.5,5,90)  H GREY (56Y 5/1) S  with yellowish brown  10YR 5/3) CLAYEY  .  OWN (10YR 4/3) G  ir to subrounded, gr  with coarse sand, g	L)  A trace fine sand and site of the sand of th	moist, wet at upper moist, stiff, no od and increasing si e sand, dry to moi e sand, dry to moi SW), fine to coars ameter, loose, wet	er contact,  or, (0,0,10,90)  lt  sst, (0,10,60,30)	G-2 Chuich Soch A0 PCV Signik Casing  2-inch PVC Screen (0.020-inch Slot)  4-inch PVC Screen (0.020-inch Slot)  5-inch PVC Screen (0.020-inch Slot)  4-inch PVC Screen (0.020-inch Slot)  4-inch PVC Screen (0.020-inch Slot)  4-inch PVC Screen (0.020-inch Slot)  5-inch PVC Screen (0.020-inch Slot)  4-inch PVC Screen (0.020-inch Slot)  5-inch PVC Screen (0.020-inch Slot)  5-inch PVC Screen (0.020-inch Slot)  6-inch PVC Screen (0.020-inch Slot)  7-inch PVC Screen (0.020-inch Slot)  8-inch PVC Screen (0.020-inch Slot)  9-inch PVC
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	SE	A	C(	)R		Reviewed				ate:	
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Project: Earle	M. Jo	rgensen					Log of Boring/			•	Pa
Boring Location:		Figure 3			Project No.: 50083				S	<b>B-</b> 1	
Subcontractor and			on Samplin	ıg	Logged By: T. J.	P. K.	A				
Sampling Method	: Cont	inuous Cori	ng	Monitoring Device			Comments:				
Start Date/ Time:		2/93 // 0900		Finish Date/ Time	e: 3/22/93 // 1000	)					
First Water (BGS)	: 13 F	eet		Stabilized Water I							
5			Surface Ele	vation:	Casing Top	e Elevation:		_	Da	riaa A	handaaa
Sample Number Blows/foot	PID (ppm)	Depth (feet)		1.171.16	N 0010 DE00DIE	TION					bandonn truction (
tum Slow	은	Depth		LITHC	LOGIC DESCRIP	TION			*****	00110	
0/2 III		_   _	ļ					_			
	10		Asphalt	OK ON TWO AV (C)	Nuith comented pand f	froemonte pla	etic		l	:	
	1		GREY BLAG	JK SILTY CLAY (C) bist, moderate to str	L) with cemented sand fong hydrocarbon odor	ragments, pie	isno,	コ		:	
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		3_1///	3					$\exists$	- //	<b>*</b>  :	
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SB-1-4	143		1					-	Grout		: : :
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	100	6— <b>12</b> //	1					$\dashv$			
		7_\\\	1						ļ		
		-677	DARK GRE	EN SILTY CLAY (C	CL) with tan cemented s	and fragment	s,	$\exists$	- 1		
		8 <b>- ///</b>	plastic, sl	ightly moist, modera	ate hydrocarbon odor			7	1		
SB-1-9	0	9 1	3			-			ŀ		
	1	o <b>- 3</b> //						$\dashv$			
	١,	. <i>-077</i>	MOTTLED	BROWN AND GRE	ENISH BROWN SAND	Y CLAY (CL)	with black		1		: : :
	0 1	`-W//		slightly moist, no od				$\dashv$			: : :
	1	2- <b>//</b> //	1					$\exists$			
1 1	1	з — 🕢 💥	4_					$\exists$	1	1	
	1	4—	MOTTLED	TAN AND GREY S	SILTY SAND (SM) with a	occasional pe	bbles, wet,	$\exists$	- 1		
	0	5 —	no odor		, , , , , , , , , , , , , , , , , , , ,	·				ļ	
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SB-1-16	0 1	<sup>6</sup> 🗷						$\exists$			
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			i i	Log of Boring/ Monito	oring Well: Page 1 of 1			
Project: Earle M. Jo			Project No.: 50083-001-01		SB-2			
Boring Location: See Subcontractor and Equipm	Figure 3	Samoling	Logged By: T. J. P. K.		3D-2			
Sampling Method: Con		Monitoring Device:		Comments:				
	2/93 // 1000	Finish Date/ Time:						
First Water (BGS): 14 f		Stabilized Water Le	evel (BGS) :					
1		Surface Elevation:	Casing Top Elevation:		Boring Abandonment/			
Sample Number Blows/foot PID (ppm)	Depth (feet)	LITHO	LITHOLOGIC DESCRIPTION					
SB-2-6 24 SB-2-10 0 SB-1-14.5 0	0	DARK GREEN SILTY CLAY (CI plastic, moist, slight hydrocarb	L) with tan cemented sand fragment oon odor BROWN SILTY (CL) with some blad	ts.	Grount Control of the			
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CT A CC		Reviewed by:	D	ate:				
SEACC	)K	Revised by:		ate:				

Project:	Farl	o M	Jorgens	en				Log of Boring/ Moni	itoring Well:	Page 1 of 2
Boring Lo			e Figure				Project No.: 50083-001-01		SB-3	ļ
					n Sampling		Logged By: T. J. P. K.		<u> </u>	
			ontinuous			Monitoring Device:	OVM 580B	Comments:		ļ
Start Date			3/22/93 //			inish Date/ Time:	3/22/93 // 1130			1
First Wat	er (BGS	s):			s	tabilized Water Le				
	ot	£	et)	poq	Surface Elevati	ion:	Casing Top Elevation:		D. 1 . 10	
Sample Number	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol		LITHOI	LOGIC DESCRIPTION		Well Constr	andonment/ ruction Detalls
}			0	}	Concrete			_		
		0	1	2	BROWN MEDI	UM GRAINED SA	ND (SP), well sorted (fill), wet, no	odor	:	::
1		U	2							::    -
			3 -	7					/ :	::
								-	<u> </u>	::
}			4	]		NO FU	RTHER RECOVERY	$\exists$	Grout	::
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Project:			Jorgenser		<del></del>		Project No.: 50083-001-01	1	_
Boring Lo			ee Figure 3 Ipment:: Pro		n Samplin	<u> </u>	Logged By: T. J. P. K.	7	SB-4
			ontinuous (			Monitoring Device		Comments :	
			3/22/93 //.		· · · · · · · · · · · · · · · · · · ·	Finish Date/ Time:		1	
Start Date						Stabilized Water L			
First Wat			3.5 Feet ⊋	<u>_</u>	Surface Elev	<u> </u>	Casing Top Elevation:	1	
Sample Number	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol		LITHO	LOGIC DESCRIPTION		Boring Abandonment/ Well Construction Details
SB-4-5.5		0	0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 8 — 8		DARK BLAG	CKISH GREEN SILT	'Y CLAY (CL), slightly moist, no o ENISH BROWN SANDY CLAY (C		Grout
SB-4-11		0	9 — 10 — 11 — 12 — 13 —		MOTTLED and rush	BROWN AND GRE	htly moist to moist, no odor  ENISH BROWN CLAYEY SILT (foist to moist, no odor  M), grades coarser toward shoe, w		
SB-4-14		0	14   15   16   17   18   19   20   21   22   22						
			23 —						
CE.	' <b>/</b>	$\overline{C}$	OR		Reviewed	by:		Date:	_
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Project: Boring Lo			e Figure				Project No.: 50083-00	1-01		C	B-5	
Boring Lo	cauon:		ipment: Pr		n Samplin	ng	Logged By: T. J. P. K				JD-3	
			ontinuous			Monitoring Devic	e: OVM 580B		Comments:			
Start Date			3/22/93 //			Finish Date/ Time						Ì
First Wate						Stabilized Water	Level (BGS) :					
First Wall				ğ	Surface Ele		Casing Top Elevi	ation:				
Sample Number	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol		LITHO	DLOGIC DESCRIPTION	N				ndonment/ ction Details
SB-5-5.5		0 0 0	0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 16 — 17 — 17 — 16 — 17 — 17		GREEN SIL no odor MOTTLED coarse sa	LTY CLAY (CL) with BROWN AND TAN and lens, slightly mo	Y CLAY (CL) with tan cement a cemented sand fragments, s SILTY CLAY (CL), with iron s ist to moist, no odor	slightly r staining	moist, plastic, -	Grout		
			26 ————————————————————————————————————									
<u> </u>			30	<u> Ц</u>								
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Boring Lo			ee Figure				Project No.: 50083-001-01	7	SB-6	
					n Samplin	ıg	Logged By: T. J. P. K.		<u> </u>	
			ontinuous			Monitoring Device	ce: OVM 580B	Comments:		
Start Date		-	3/22/93 //			Finish Date/ Time	e: 3/22/93 // 1520			
First Wat			5 Feet			Stabilized Water	Level (BGS) :			
				8	Surface Ele	vation:	Casing Top Elevation:			
Sample Number	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol		LITHO	DLOGIC DESCRIPTION		Boring Aba Well Constru	
SB-6-5.5 SB-6-11		0 0	0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 12 — 13 — 13 — 13 — 13 — 13 — 13		OLIVE GRE	EN SILTY CLAY (I	CL) with cemented sand fragments  CL) with tan cemented sand fragments  or	ents, black	Grout	
SB-6-14		0	14		▼ TAN GE	RAY SILTY SAND (	(SM), grades coarser toward shoe,	wet, no odor		
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			ee Figure			Project No.: 50083-001-01	-		
Boring Lo					on Sampling	Logged By: T. J. P. K.	-	SB-7	
I———			ontinuous			<del></del>	Comments:		
Start Date			3/22/93 //				1		
				1520			-{		
First Wat				ō	Stabilized Wate Surface Elevation:	Casing Top Elevation:			
Sample Number	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol		OLOGIC DESCRIPTION		Boring Abando Well Construction	
SB-7-5.5		0	1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 20		hydrocarbon odor  DARK BLACKISH GREEN SI slight hydrocarbon odor	(CL), plastic, slightly moistslight to me LIGHTLY SILTY CLAY (CL), plastic, s EENISH BROWN SILTY CLAY (CL) vidor	elightly moist,	Grout	
SB-7-11		0	11 12		<b>Y</b>	A), grades coarser towards shoe, occa	asional pebbles,		
			16			ę		-	
SE	<u>\</u>	77			Reviewed by:	Dat	to:		
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