

October 25, 1994

Joseph S. Moran, Esq.
Assistant General Counsel - Environmental
American National Can Company
Mail Suite 14C
8770 West Bryn Mawr Avenue
Chicago, Illinois 60631-3542

Subject: Building #12 Samples
American National Can Company
Former Oakland, California Facility

Dear Mr. Moran:

This letter provides the results of the recent soil investigation conducted at the northern end of former Building #12. The investigation was conducted on September 27, 1994 to evaluate the extent of impacted soil reportedly encountered during plant demolition activities. The investigation included the drilling and sampling of 9 test borings (T-1 through T-4 and S-1 through S-5) as proposed in our August 30, 1994 letter to you.

Figure 1 is a map that shows the locations of the 9 borings. Borings T-1 and S-1 were drilled immediately adjacent to the respective T-1 and S-1 samples collected by PES Environmental, Inc. in June and July, 1994. A PES representative provided RUST personnel with their sampling locations. Detailed soil boring logs are appended which depict subsurface conditions, and the intervals where samples were collected for laboratory analysis. The logs also show the results of headspace screening for volatile organic compounds with a photoionization detector (PID).

Soil samples collected from borings S-1 (6.0 feet deep), S-5 (5.0 feet deep) and T-4 (5.0 feet deep) contained mineral spirits at a concentration of less than 1 part per million (ppm). Mineral spirits were detected in the sample collected at 3.0 feet from boring S-4 at 9.7 ppm. The sample collected at 6.5 feet from boring T-1 was reported to contain 1700 ppm of mineral spirits. All other samples collected did not reveal the presence of mineral spirits at the detection limit of 0.5 ppm.

Based on laboratory analytical results, a contour map (Figure 2) was prepared to present the lateral and vertical extent of potentially impacted soil. The values used in contouring reflect the deepest contamination that was detected, based on laboratory analytical results and PID headspace screening results. The amount of soil delineated as potentially impacted is roughly 125 to 150 cubic yards.

Joe Moran, Esq.
October 25, 1994
Page 2

However, based on the headspace screening results, it is likely that actual contamination is confined to the near surface of less permeable soils (soil class CL and CH shown on the borings logs) as lateral distance increases from boring T-1. It is therefore probable that a substantial amount of surficial soil (0-3 feet) in the contoured area is not impacted.

At this time, we can not determine the potential for contaminants to have reached the water table. The sample from T-1 was collected at a depth of approximately 2.5 feet above the water table. We recommend that PES provide us with the analytical results from the samples they had analyzed so that we may more fully evaluate the results of this investigation. Following review of the PES data, we would prepare a detailed workplan for the excavation and removal of contaminated soil.

The workplan would provide for post excavation confirmatory sampling and would likely incorporate the relocation of the excavated soils to the pad designated for Area 4 soils. Based on a recent telephone conversation with Rob Creps, he concurs with the conceptual plan of staging Building 12 soil alongside, but separate from, Area 4 soil.

Please contact me with any questions.

Very truly yours,



Edward W. Alusow
Senior Project Manager

EWA/me

cc: E. Rawlings
J. Peters
J. Kessler
R. Creps
J. Renauer

Enclosures



LITHOGRAPHY
NO. 12

MW-7
2.91

MW-20

T-2 S-2
T-1 S-1 S-3
T-3 S-4
T-4 S-5

MW-1

MW-4

MW-18

LEGEND

T-1 SOIL BORING

MW-7 EXISTING MONITORING WELL

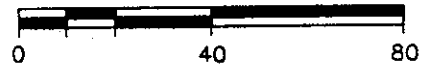
MW-19 DECOMMISSIONED WELL

MW-19

MW-5

MW-2

SCALE IN FEET



RUST ENVIRONMENT &
INFRASTRUCTURE

BUILDING 12 INVESTIGATION
SOIL BORING LOCATION MAP

AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND CALIFORNIA PLANT

PROJECT NO. 35195.630

DATE 10/94

DWG. NO. 35195-07

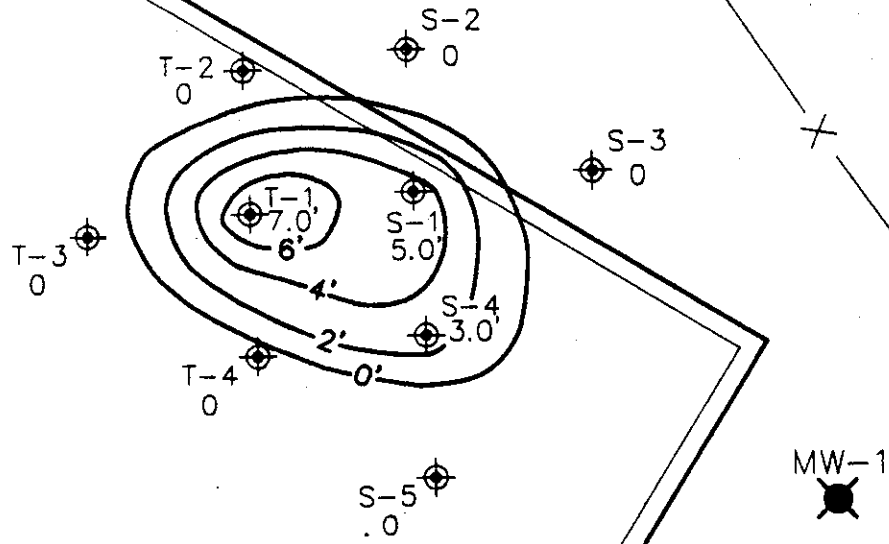
SCALE 1"=40'

FIGURE NO. 1



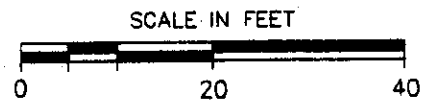
MW-7
●
2.91

FORMER
BUILDING 12



LEGEND

- T-1
 SOIL BORING
- 2' —
BASE OF IMPACTED SOIL
IN FEET BELOW GRADE
- MW-7
● EXISTING MONITORING WELL
- MW-1
 DECOMMISSIONED WELL



RUST ENVIRONMENT &
INFRASTRUCTURE

EXTENT OF POTENTIAL SOIL CONTAMINATION

AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND CALIFORNIA PLANT

PROJECT NO. 35195.630

DATE 10/94

DWG. NO. 35195-08

SCALE 1"=20'

FIGURE NO. 2



Inchcape Testing Services

Anamatrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9409220
Date Received : 09/27/94
Project ID : 35195.650
Purchase Order: E-25237

The following samples were received at Anamatrix for analysis :

ANAMATRIX ID	CLIENT SAMPLE ID
9409220- 1	S1-6.0
9409220- 2	T1-6.5
9409220- 3	T3-5.0
9409220- 4	T2-2.0
9409220- 5	T2-4.0
9409220- 6	S2-4.0
9409220- 7	S3-4.0
9409220- 8	S4-3.0
9409220- 9	S4-4.5
9409220-10	T4-5.0
9409220-11	S5-5.0

This report is organized in sections according to the specific Anamatrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anamatrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anamatrix.

Douglas Robbins for
Doug Robbins
Laboratory Director

10/10/94
Date

This report consists of 12 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9409220
Date Received : 09/27/94
Project ID : 35195.650
Purchase Order: E-25237
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9409220- 1	S1-6.0	SOIL	09/27/94	TPHg
9409220- 2	T1-6.5	SOIL	09/27/94	TPHg
9409220- 3	T3-5.0	SOIL	09/27/94	TPHg
9409220- 4	T2-2.0	SOIL	09/27/94	TPHg
9409220- 5	T2-4.0	SOIL	09/27/94	TPHg
9409220- 6	S2-4.0	SOIL	09/27/94	TPHg
9409220- 7	S3-4.0	SOIL	09/27/94	TPHg
9409220- 8	S4-3.0	SOIL	09/27/94	TPHg
9409220- 9	S4-4.5	SOIL	09/27/94	TPHg
9409220-10	T4-5.0	SOIL	09/27/94	TPHg
9409220-11	S5-5.0	SOIL	09/27/94	TPHg

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9409220
Date Received : 09/27/94
Project ID : 35195.650
Purchase Order: E-25237
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as mineral spirits for sample S1-6.0 is primarily due to the presence of a petroleum product of hydrocarbon range C6-C12, possibly gasoline.

Cheryl Balmer
Department Supervisor

10/7/94
Date

Laura Sher 10/10/94
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(MINERAL SPIRITS)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9409220
Matrix : SOIL
Date Sampled : 09/27/94

Project Number : 35195.650
Date Released : 10/05/94

Reporting Limit	Sample I.D.# S1-6.0	Sample I.D.# T1-6.5	Sample I.D.# T3-5.0	Sample I.D.# T2-2.0	Sample I.D.# T2-4.0
COMPOUNDS (mg/Kg)	-01	-02	-03	-04	-05
TPH as Mineral Spirits	0.5	0.84	1700	ND	ND
% Surrogate Recovery	92%	115%	90%	84%	68%
Instrument I.D.	HP12	HP12	HP12	HP12	HP12
Date Analyzed	09/29/94	10/04/94	10/04/94	10/03/94	10/03/94
RLMF	1	250	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Lucia Sher 10/10/94
Analyst Date

Cheryl Balman 10/7/94
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(MINERAL SPIRITS)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9409220
Matrix : SOIL
Date Sampled : 09/27/94

Project Number : 35195.650
Date Released : 10/05/94

	Reporting Limit	Sample I.D.# S2-4.0	Sample I.D.# S3-4.0	Sample I.D.# S4-3.0	Sample I.D.# S4-4.5	Sample I.D.# T4-5.0
COMPOUNDS	(mg/Kg)	-06	-07	-08	-09	-10
TPH as Mineral Spirits	0.5	ND	ND	9.7	ND	0.62
% Surrogate Recovery		75%	91%	95%	94%	91%
Instrument I.D.		HP12	HP12	HP12	HP12	HP12
Date Analyzed		10/03/94	10/03/94	10/04/94	10/03/94	10/03/94
RLMF		1	1	2.5	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Luna Slier 10/10/94
Analyst Date

Cheryl Balmer 10/7/94
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(MINERAL SPIRITS)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9409220
Matrix : SOIL
Date Sampled : 09/27/94

Project Number : 35195.650
Date Released : 10/05/94

	Reporting Limit	Sample I.D.# S5-5.0	Sample I.D.# BS2901E1	Sample I.D.# BO0301E1	Sample I.D.# BO0302E1	Sample I.D.# BO0304E1
COMPOUNDS	(mg/Kg)	-11	BLANK	BLANK	BLANK	BLANK
TPH as Mineral Spirits	0.5	0.67	ND	ND	ND	ND
% Surrogate Recovery		86%	108%	95%	104%	91%
Instrument I.D.		HP12	HP12	HP12	HP12	HP12
Date Analyzed		10/04/94	09/29/94	10/03/94	10/04/94	10/04/94
RLMF		1	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Laura Shar 10/10/97
Analyst Date

Cheryl Bremer 10/7/94
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 35195.650 T2-2.0
 Matrix : SOIL
 Date Sampled : 09/27/94
 Date Analyzed : 09/29/94

Anamatrix I.D. : 9409220-04
 Analyst : IS
 Supervisor : *OB*
 Date Released : 10/06/94
 Instrument ID : HP12

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC MS (mg/Kg)	% REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS *
MINERAL SPIRITS	0.50	0.12	0.67	110%	0.77	130%	17%	48-149
P-BFB				92%		83%		53-147

* Quality control limits established by Anamatrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : SOIL
 Date Sampled : N/A
 Date Analyzed : 09/29/94

Anamatrix I.D. : MS2902E1
 Analyst : *IS*
 Supervisor : *JS*
 Date Released : 10/06/94
 Instrument I.D.: HP12

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS *
MINERAL SPIRITS	0.50	0.56	112%	58-130
p-BFB			104%	53-147

* Quality control limits established by Anamatrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : SOIL
 Date Sampled : N/A
 Date Analyzed : 10/03/94

Anamatrix I.D. : M00301E1
 Analyst : AS
 Supervisor : OS
 Date Released : 10/06/94
 Instrument I.D.: HP12

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS *
MINERAL SPIRITS	0.50	0.45	90%	58-130
p-BFB			95%	53-147

* Quality control limits established by Anamatrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : SOIL
 Date Sampled : N/A
 Date Analyzed : 10/04/94

Anamatrix I.D. : MO0401E1
 Analyst : LS
 Supervisor : o
 Date Released : 10/06/94
 Instrument I.D.: HP12

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS *
MINERAL SPIRITS	0.50	0.47	94%	58-130
p-BFB			103%	53-147

* Quality control limits established by Anamatrix, Inc.



SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9409220

CLIENT PROJECT ID: 36195.650

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	<input checked="" type="radio"/> N/A
If YES, enter carrier name and airbill #:	_____		
Custody Seal on the outside of cooler?	YES	NO	<input checked="" type="radio"/> N/A
Condition: INTACT _____ BROKEN _____			
Temperature of sample (s) within range?	YES	<input checked="" type="radio"/> NO	N/A
List temperature of cooler (s): <u>21°C</u>			

SAMPLES

Chain of custody seal present for each container?	YES	NO	<input checked="" type="radio"/> N/A
Condition: INTACT _____ BROKEN _____			
Samples arrived within holding time?	<input checked="" type="radio"/> YES	NO	N/A
Samples in proper containers for methods requested?	<input checked="" type="radio"/> YES	NO	
Condition of containers: INTACT <input checked="" type="checkbox"/> BROKEN _____			
If NO, were samples transferred to proper container? _____			
Were VOA containers received with zero headspace?	YES	NO	<input checked="" type="radio"/> N/A
If NO, was it noted on the chain of custody? _____			
Were container labels complete? (ID, date, time preservative, etc.)	<input checked="" type="radio"/> YES	NO	
Were samples preserved with the proper preservative?	YES	NO	<input checked="" type="radio"/> N/A
If NO, was the proper preservative added at time of receipt? _____			
pH check of samples required at time of receipt?	YES	<input checked="" type="radio"/> NO	
If YES, pH checked and recorded by: _____			
Sufficient amount of sample received for methods requested?	<input checked="" type="radio"/> YES	NO	
If NO, has the client or lab project manager been notified? _____			
Field blanks received with sample batch? # of Sets: _____	YES	NO	<input checked="" type="radio"/> N/A
Trip blanks received with sample batch? # of Sets: _____	YES	NO	<input checked="" type="radio"/> N/A

CHAIN OF CUSTODY

Chain of custody received with samples?	<input checked="" type="radio"/> YES	NO
Has it been filled out completely and in ink?	<input checked="" type="radio"/> YES	NO
Sample ID's on chain of custody agree with container labels?	<input checked="" type="radio"/> YES	NO
Number of containers indicated on chain of custody agree with number received?	<input checked="" type="radio"/> YES	NO
Analysis methods clearly specified?	<input checked="" type="radio"/> YES	NO
Sampling date and time indicated?	<input checked="" type="radio"/> YES	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	<input checked="" type="radio"/> YES	NO
Turnaround time? REGULAR <input checked="" type="checkbox"/> RUSH _____		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: BSA

Date: 9/27/94

Project Manager: KD

Date: 9/28/94

388e

9409220

2

Project Number		Project Name/Client		Custody Seal #		RUST E&I Cooler #			
Samplers: (Signature)				Analysis Required		Matrix			
Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Cont.	Lab Sample Number	Container Number	Sample Type	Sample Container
1	S1-6.0	9-27-94	10:10					Soil	SS / AM
2	T1-6.5	↑	10:40						
3	T3-5.0		11:10						
4	T2-2.0		11:35						
5	T2-4.0		11:45						
6	S2-4.0		12:05						
7	S3-4.0		1:10						
8	S4-3.0		1:45						
9	S4-4.5		1:50						
10	T4-5.0		↓	2:15					
11	S5-5.0	9-27-94		2:40					
12									
13									
14									
15									
16									
17									
18									
19									
20									

EPA 8015 for mineral spirits

Relinquished by: (Signature) <i>Richard Burszalski</i>	Date/Time <i>9/27/94 1615</i>	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature) [Laboratory] <i>Josephine DePauli</i>	Disposed of by: (Signature)	Items:	Date/Time

Send Lab Results To: <i>Walt Howard</i> <i>% RUST - Albany N.Y.</i> <i>send copy to Richard Burszalski</i> <i>% RUST/WALCOR - Palo Alto</i>	Remarks: <i>standard QA/QC</i>	Check Delivery Method: <input checked="" type="checkbox"/> Samples delivered in person <input type="checkbox"/> Common carrier <input type="checkbox"/> Mail	Laboratory Receiving Notes: Custody Seal Intact? <i>N/A</i> Temp. of Shipping Container: <i>21°C</i> Sample Condition: <i>good</i>
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BORING LOCATION: ANC - Building 12			APPROVED BY: RAB		GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling		TOTAL DEPTH: 7.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94		LOGGED BY: RAB		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR ROD	REC.	MODE	REMARKS
GW	0'-1' Baseroack and residual crushed concrete.	0				PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 2.5'-3.0': PID = 9.8 ppm 4.0'-4.5': PID = 6.5 ppm 4.5'-5.0': PID = 32 ppm 5.0'-5.5': PID = 2.3 ppm 5.5'-6.0': PID = 3.1 ppm
GM	1'-5' SILTY GRAVEL W/SAND: moderate yellowish brown; dry; medium dense.	2					
GM	5'-5.25' GRAVELLY CLAY: moderate yellowish brown (10 YR 5/4); damp; stiff; moderate plasticity; sweet hydrocarbon odor.	4					
GM	5.25'-6.75' SILTY GRAVEL W/SAND: same as 1'-5' interval.	6	S1-6.0				
GM	6.75'-7.0' CLAY: dusky brown; damp; stiff; high plasticity.	7	PES				
	Terminated boring at 7.0'.	8					Grouted hole to surface with neat cement mix.
		10					
		12					
		14					
		16					
		18					
		20					
RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO. S-1	
				PROJECT NO.	SHEET:		
				35195.650	1 of 1		

DATA ON THIS LOG ARE AN APPROXIMATION OF THE GEOLOGIC AND SUBSURFACE CONDITIONS BECAUSE THE INFORMATION WAS OBTAINED FROM INDIRECT, DISCONTINUOUS, AND POSSIBLY DISTURBED SAMPLING NECESSITATED BY USE OF SMALL- DIAMETER HOLES. ROTARY AND WASH BORING HOLES HAVE FURTHER COMPLICATIONS IN THIS REGARD BECAUSE OF THE NEED TO USE DRILLING FLUID AND/OR CASING IN ADVANCING HOLES.

THIS LOG INDICATES CONDITIONS IN THIS HOLE ONLY ON THE DATE INDICATED AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS AND ON OTHER DATES. ANY WATER LEVELS SHOWN ARE SUBJECT TO VARIATION.

THIS HOLE WAS LOGGED IN SUCH A WAY AS TO PROVIDE DATA PRIMARILY FOR DESIGN PURPOSES AND NOT NECESSARILY FOR THE PURPOSES OF SPECIFIC CONTRACTORS.

THE STRATIFICATION LINES OR DEPTH INTERVALS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES, AND THE TRANSITIONS MAY BE GRADUAL.

SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.

BORING LOCATION: ANC - Building 12			APPROVED BY: RAB		GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling		TOTAL DEPTH: 6.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"		DATE DRILLED: 9/27/94		LOGGED BY: RAB	
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR ROD	REC.	MODE	REMARKS
GW	0'-1' Baseroack and residual crushed concrete.	0				PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.7 ppm 2.5'-3.0': PID = 1.8 ppm
CL	1'-2' SILTY CLAY w/trace sand: moderate olive brown (5 Y 4/9) with dusky brown (5 YR 2/2) concretions; damp; stiff; moderate plasticity.	2					
CH	2.0'-5.0' CLAY: dusky brown (5 YR 2/2); damp; stiff; high plasticity.	4	S2-4.0				
	5.0'-5.5' CLAY: dark yellowish brown (10 YR 4/2) w/dusky brown (5 yr 2/2) concretions; damp; stiff; inclusions of weathered rock fragments.		PES				
GM CH	5.5'-6.0' SILTY CLAY: moderate yellowish brown (10 YR 5/4); damp; firm; moderate plasticity; 5% sand.	6					
	Terminated boring at 6.0'.						Grouted hole to surface with neat cement mix.
		8					
		10					
		12					
		14					
		16					
		18					
		20					
<p>DATA ON THIS LOG ARE AN APPROXIMATION OF THE GEOLOGIC AND SUBSURFACE CONDITIONS BECAUSE THE INFORMATION WAS OBTAINED FROM INDIRECT, DISCONTINUOUS, AND POSSIBLY DISTURBED SAMPLING NECESSITATED BY USE OF SMALL- DIAMETER HOLES. ROTARY AND WASH BORING HOLES HAVE FURTHER COMPLICATIONS IN THIS REGARD BECAUSE OF THE NEED TO USE DRILLING FLUID AND/OR CASING IN ADVANCING HOLES.</p> <p>THIS LOG INDICATES CONDITIONS IN THIS HOLE ONLY ON THE DATE INDICATED AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS AND ON OTHER DATES. ANY WATER LEVELS SHOWN ARE SUBJECT TO VARIATION.</p> <p>THIS HOLE WAS LOGGED IN SUCH A WAY AS TO PROVIDE DATA PRIMARILY FOR DESIGN PURPOSES AND NOT NECESSARILY FOR THE PURPOSES OF SPECIFIC CONTRACTORS.</p> <p>THE STRATIFICATION LINES OR DEPTH INTERVALS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES, AND THE TRANSITIONS MAY BE GRADUAL.</p> <p>SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.</p>							
RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO. S-2	
				PROJECT NO.			
				35195.650			
				SHEET: 1 of 1			

BORING LOCATION: ANC - Building 12				APPROVED BY: RAB		GROUND EL:	
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling			TOTAL DEPTH: 6.0'	
DRILL RIG: MD-1		BORING DIA.: 2-1/4"		DATE DRILLED: 9/27/94		LOGGED BY: RAB	
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-0.5' Basereck and residual crushed concrete.	0					Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.6 ppm 2.5'-3.0': PID = 1.1 ppm 3.5'-4.0': PID = 0.5 ppm 5.0'-5.5': PID = 0.5 ppm
CL	5'-1.0' SILTY CLAY w/gravel: moderate olive brown (5 Y 4/4) with dusky brown (5 YR 2/2) concretions; damp; stiff; moderate plasticity.	2				100%	
CH	1.0'-3.5' CLAY: dusky brown (5 YR 2/2); damp; stiff; high plasticity.	4					
CL	3.5'-4.0' SILTY CLAY: moderate olive brown (5 Y 4/4) w/dusky brown (5 YR 2/2) concretions; damp; stiff; moderate plasticity.	4	S3-4.0				
CL	4.0'-6.0' SILTY CLAY: moderate olive brown (5 Y 4/4); damp; stiff; moderate plasticity; trace gravel.	6	PES				
	Terminated boring at 6.0'.						Grouted hole to surface with neat cement mix.
	<p>DATA ON THIS LOG ARE AN APPROXIMATION OF THE GEOLOGIC AND SUBSURFACE CONDITIONS BECAUSE THE INFORMATION WAS OBTAINED FROM INDIRECT, DISCONTINUOUS, AND POSSIBLY DISTURBED SAMPLING NECESSITATED BY USE OF SMALL-DIAMETER HOLES. ROTARY AND WASH BORING HOLES HAVE FURTHER COMPLICATIONS IN THIS REGARD BECAUSE OF THE NEED TO USE DRILLING FLUID AND/OR CASING IN ADVANCING HOLES.</p> <p>THIS LOG INDICATES CONDITIONS IN THIS HOLE ONLY ON THE DATE INDICATED AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS AND ON OTHER DATES. ANY WATER LEVELS SHOWN ARE SUBJECT TO VARIATION.</p> <p>THIS HOLE WAS LOGGED IN SUCH A WAY AS TO PROVIDE DATA PRIMARILY FOR DESIGN PURPOSES AND NOT NECESSARILY FOR THE PURPOSES OF SPECIFIC CONTRACTORS.</p> <p>THE STRATIFICATION LINES OR DEPTH INTERVALS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES, AND THE TRANSITIONS MAY BE GRADUAL.</p> <p>SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.</p>						
RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO. S-3	
				PROJECT NO.	SHEET:		
				35195.650	1 of 1		

BORING LOCATION: ANC - Building 12			APPROVED BY: RAB		GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling		TOTAL DEPTH: 6.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94		LOGGED BY: RAB		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-.5' Baseroack and residual crushed concrete.	0					Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.1 ppm 2.5'-3.0': PID = 149 ppm 4.0'-4.5': PID = 0.6 ppm
GM	.5'-2.5' SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	2				PD	
CL	2.5'-4.5' GRAVELLY CLAY: moderate yellowish brown (10 YR 5/4); damp; stiff; moderate plasticity.	4	S4-3.0 PES		100%		
CL	4.5'-6.0' SILTY CLAY: moderate olive brown (5 Y 4/4); damp; stiff; moderate plasticity; trace gravel.	6	S4-4.5 PES				
	Terminated boring at 6.0'.	6					Grouted hole to surface with neat cement mix.
		8					
		10					
		12					
		14					
		16					
		18					
		20					
<p>DATA ON THIS LOG ARE AN APPROXIMATION OF THE GEOLOGIC AND SUBSURFACE CONDITIONS BECAUSE THE INFORMATION WAS OBTAINED FROM INDIRECT, DISCONTINUOUS, AND POSSIBLY DISTURBED SAMPLING NECESSITATED BY USE OF SMALL-DIAMETER HOLES. ROTARY AND WASH BORING HOLES HAVE FURTHER COMPLICATIONS IN THIS REGARD BECAUSE OF THE NEED TO USE DRILLING FLUID AND/OR CASING IN ADVANCING HOLES.</p> <p>THIS LOG INDICATES CONDITIONS IN THIS HOLE ONLY ON THE DATE INDICATED AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS AND ON OTHER DATES. ANY WATER LEVELS SHOWN ARE SUBJECT TO VARIATION.</p> <p>THIS HOLE WAS LOGGED IN SUCH A WAY AS TO PROVIDE DATA PRIMARILY FOR DESIGN PURPOSES AND NOT NECESSARILY FOR THE PURPOSES OF SPECIFIC CONTRACTORS.</p> <p>THE STRATIFICATION LINES OR DEPTH INTERVALS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES, AND THE TRANSITIONS MAY BE GRADUAL.</p> <p>SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.</p>							
RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO.	
				PROJECT NO.		SHEET:	
				35195.650		1 of 1	
						S-4	

BORING LOCATION: ANC - Building 12			APPROVED BY: RAB			GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling			TOTAL DEPTH: 6.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"		DATE DRILLED: 9/27/94		LOGGED BY: RAB		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR ROD	REC.	MODE	REMARKS	
GM	0'-4.5'? SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	0			100%	PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.0 ppm 2.5'-3.0': PID = 0.9 ppm 4.5'-5.0': PID = 6.6 ppm	
		2			67%			
		4			50%			
CH	4.5'-5.5' CLAY: dusky brown; damp; stiff; high plasticity.		S5-5.0					
CL	5.5'-6.0' SILTY CLAY: moderate yellowish brown; damp; firm; moderate plasticity.		PES					
	Terminated boring at 6.0'.	6					Grouted hole to surface with neat cement mix.	
		8						
		10						
		12						
		14						
		16						
		18						
		20						
<p>DATA ON THIS LOG ARE AN APPROXIMATION OF THE GEOLOGIC AND SUBSURFACE CONDITIONS BECAUSE THE INFORMATION WAS OBTAINED FROM INDIRECT, DISCONTINUOUS, AND POSSIBLY DISTURBED SAMPLING NECESSITATED BY USE OF SMALL-DIAMETER HOLES. ROTARY AND WASH BORING HOLES HAVE FURTHER COMPLICATIONS IN THIS REGARD BECAUSE OF THE NEED TO USE DRILLING FLUID AND/OR CASING IN ADVANCING HOLES.</p> <p>THIS LOG INDICATES CONDITIONS IN THIS HOLE ONLY ON THE DATE INDICATED AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS AND ON OTHER DATES. ANY WATER LEVELS SHOWN ARE SUBJECT TO VARIATION.</p> <p>THIS HOLE WAS LOGGED IN SUCH A WAY AS TO PROVIDE DATA PRIMARILY FOR DESIGN PURPOSES AND NOT NECESSARILY FOR THE PURPOSES OF SPECIFIC CONTRACTORS.</p> <p>THE STRATIFICATION LINES OR DEPTH INTERVALS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES, AND THE TRANSITIONS MAY BE GRADUAL.</p> <p>SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.</p>								
RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO.		
				PROJECT NO.	SHEET:	S-5		
				35195.650	1 of 1			

BORING LOCATION: ANC - Building 12		APPROVED BY: RAB	GROUND EL:
DEPTH/ELEV. WATER: NA		DRILL CONTRACTOR: Precision Drilling	TOTAL DEPTH: 7.5'
DRILL RIG: MD-1	BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94	LOGGED BY: RAB

SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-1' Baseroack and residual crushed concrete.	0			100%	PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 3 ppm 2.5'-3.0': PID = 11.5 ppm
GM	1'-6.5' SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	2			100%		
		4			10%		
		6			100%		
CH	6.5'-7.5' CLAY: moderate brown; damp; stiff; high plasticity.	7.5	T1-6.5 PES		67%		
	Terminated boring at 7.5'	8					Grouted hole to surface with neat cement mix.
		10					
		12					
		14					
		16					
		18					
		20					

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SOIL CLASSIFICATIONS SHOWN ON LOGS ARE FIELD CLASSIFICATIONS BASED ON THE UNIFIED SOILS CLASSIFICATION SYSTEM.

RUST
ENVIRONMENT &
INFRASTRUCTURE

AMERICAN NATIONAL CAN
OAKLAND, CALIFORNIA
BUILDING 12

EXPLORATION BORING LOG

PROJECT NO.

35195.650

SHEET:

1 of 1

BORING NO.

T-1

BORING LOCATION: ANC - Building 12		APPROVED BY: RAB	GROUND EL:
DEPTH/ELEV. WATER: NA		DRILL CONTRACTOR: Precision Drilling	TOTAL DEPTH: 6.0'
DRILL RIG: MD-1	BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94	LOGGED BY: RAB

SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-1' Baserock and residual crushed concrete.	0				PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.8 ppm 1.5'-2.0': PID = 1.6 ppm
GM	1'-2' SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	1					
CH	2'-4.5' CLAY: dusky brown (5 YR 2/2); damp; stiff; high plasticity.	2	T2-2.0				
			PES				
CL	4.5'-5.0' CLAY: dark yellowish brown (10 YR 4/2) w/dusky brown (5 YR 2/2) concretions; damp; stiff; trace pea gravel.	4	T2-4.0				
			PES				
CL	5.0'-6.0' SILTY CLAY: moderate yellowish brown (10 YR 5/4); damp; firm; moderate plasticity; trace sand.	6					
	Terminated boring at 6.0'.						Grouted hole to surface with neat cement mix.
		8					
		10					
		12					
		14					
		16					
		18					
		20					

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RUST ENVIRONMENT & INFRASTRUCTURE	AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12	EXPLORATION BORING LOG		BORING NO. T-2
		PROJECT NO.	SHEET:	
		35195.650	1 of 1	

BORING LOCATION: ANC - Building 12			APPROVED BY: RAB		GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling		TOTAL DEPTH: 6.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94		LOGGED BY: RAB		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-1' Baseroack and residual crushed concrete. 1'-5.75' SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	0			100%	PD	Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 2 ppm 2.5'-3.0': PID = 1.2 ppm
GM		2			67%		
		4			33%		
			T3-5.0				4.5'-5.0': PID = 1.8 ppm
CH	5.75'-6.0' CLAY: moderate brown; damp; stiff; high plasticity.	6	PES				
	Terminated boring at 6.0'.						Grouted hole to surface with neat cement mix.
		8					
		10					
		12					
		14					
		16					
		18					
		20					
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RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO. T-3	
				PROJECT NO.	SHEET:		
				35195.650	1 of 1		

BORING LOCATION: ANC - Building 12			APPROVED BY: RAB		GROUND EL:		
DEPTH/ELEV. WATER: NA			DRILL CONTRACTOR: Precision Drilling		TOTAL DEPTH: 6.0'		
DRILL RIG: MD-1		BORING DIA.: 2-1/4"	DATE DRILLED: 9/27/94		LOGGED BY: RAB		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS
GW	0'-0.5' Basereck and residual crushed concrete.	0					Advanced 2-1/4" outer casing by percussion drilling (PD). Placed cuttings in plastic bag and analyzed headspace with photoionization detector (PID). Measured organic vapors in parts per million (ppm). 1.0'-1.5': PID = 1.0 ppm 2.5'-3.0': PID = 5.2 ppm
GM	0.5'-3' SILTY GRAVEL w/sand: moderate yellowish brown; dry; medium dense.	1			67%	PD	
GM	3'-4.5' Same as 0.5'-3'??	2			33%		
GM		3			10%		
CL	4.5'-6.0' SILTY CLAY: moderate olive brown (5 Y 4/4); damp; stiff; moderate plasticity.	4					
		5	T4-5.0		100%		
		6	PES				
	Terminated boring at 6.0'.	6					Grouted hole to surface with neat cement mix.
		8					
		10					
		12					
		14					
		16					
		18					
		20					
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RUST ENVIRONMENT & INFRASTRUCTURE		AMERICAN NATIONAL CAN OAKLAND, CALIFORNIA BUILDING 12		EXPLORATION BORING LOG		BORING NO. T-4	
				PROJECT NO.	SHEET:		
				35195.650	1 of 1		