

June 2, 1995

Barney M. Chan  
Hazardous Materials Specialist  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502

RE: American National Can Company  
Former Oakland, California Facility

Dear Mr. Chan:

Rust Environment and Infrastructure, Inc. (Rust) has completed a sixteenth round of quarterly groundwater monitoring for the subject site, the twelfth round following the revised groundwater monitoring plan (dated April 27, 1992). This round of monitoring was conducted on April 7, 1995.

While completing this round of monitoring, wells GW-2R, MW-2, MW-3 and MW-5 in Area 3 had thin layers of floating free product. Due to the presence of free product, a representative groundwater sample could not be collected from well GW-2R. The observed product thickness at GW-2R(0.16') and MW-5(0.07') were removed with a bailer. However, the layers of product identified in monitoring wells MW-2 and MW-3 were too thin to be removed.

Attached is a detailed laboratory analytical report of the results of groundwater analyses obtained from this quarterly monitoring event. Table 1 provides a summary of this laboratory analytical package. The results of samples from well MW-4 and MW-6 from Area 3 and MW-9 and MW-14 from Area 4 were consistent with those of previous sampling events. However, benzene and chlorobenzene were detected in well MW-7. This is the first time that VOCs have been detected in this well since May, 1992. The TPHd concentration in MW-7 was 1900 ppb which represents an increase from previous levels

Table 2 is a summary of groundwater levels and product thickness measurements recorded during the April 7, 1995 measurement. Plate 19 is a groundwater contour map of the groundwater elevation measurements recorded on April 7, 1995. Due to the reduced number of monitoring points that were available to measure groundwater elevations, much of the contouring has been inferred (dashed), based on previous contouring.

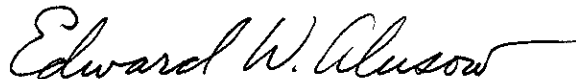
*Recd 6/15/95*  
*Reviewed 6/9/95*  
*Nothing significantly*  
*different from previous*

Barney M. Chan  
June 2, 1995  
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In response to the significant precipitation which has fallen in the Bay Area over the winter (30.18 inches recorded at the Oakland Museum between November 1, 1994 and March 31, 1995), groundwater elevations on April 7, 1995 are higher than ever recorded during previous monitoring events. Based on the higher groundwater levels, and on the increase in chemical concentration at well MW-7, it is our interpretation that the groundwater direction at MW-7 is currently from the south, enabling Area 3 contaminants to be detected at this location. Another notable anomaly is that the groundwater elevation in well MW-9 was 0.22 feet higher than that of well MW-14 during this monitoring event. During all previous monitoring events, the groundwater elevation at MW-9 has generally been just slightly (~0.25') lower than at MW-14. The groundwater elevation at well MW-6 was 0.18 feet higher than that of well GW-2R during this monitoring event. This demonstrates that the temporal groundwater mound noted, at well MW-6 during the last quarterly monitoring (December 29, 1994) has disappeared.

If you have any questions, please call me.

Sincerely,



Edward W. Alusow  
Senior Project Manager

EWA/ajl

Enclosures

cc: J. Moran, Esq., ANC  
S. Arigala, SFBRWQCB  
R. Creps, PES  
J. Kessler, High Street Assoc.

**TABLE 1**  
**AMERICAN NATIONAL CAN COMPANY**  
**FORMER OAKLAND, CALIFORNIA, FACILITY**

**Summary of Quarterly Ground Water Analytical Results - April, 1995**

ANALYSIS	AREA - 3			AREA - 4	
	MW-4	MW-6	MW-7	MW-9	MW-14
<b><u>Volatile Organics</u></b> (EPA Method 8240)(ug/l)					
Dilution Factor	1.0	1.0	1.0	--	--
1,1-Dichloroethane	nd	29	nd	--	--
1,1,1-Trichloroethane	nd	3.1	nd	--	--
Acetone	17	nd	nd	--	--
Benzene	160	nd	15	--	--
Chlorobenzene	26	nd	8	--	--
Chloroethane	5.9	nd	nd	--	--
Ethylbenzene	9.1	nd	nd	--	--
Toluene	5.1	nd	nd	--	--
Total Xylenes	18	nd	nd	--	--
Total VOCs	241	32	23		
<b><u>TPH as Gasoline</u></b> (EPA Method 8015 Mod)(ug/l)					
	--	--	--	nd	nd
<b>BTEX</b> (EPA Method 8020)(ug/l)					
Benzene	--	--	--	nd	nd
Toluene	--	--	--	nd	nd
Ethylbenzene	--	--	--	nd	nd
Total Xylenes	--	--	--	nd	nd
<b><u>TPH as Diesel</u></b> (EPA Method 8015 Mod)(ug/l)					
	7700	100	1900	--	--
<b><u>Semi-Volatile Organics</u></b> (EPA Method 8270)(ug/l)					
Dilution Factor	1.0	1.0	1.0	--	--
1,2-Dichlorobenzene	nd	nd	nd	--	--
bis (2-Ethylhexyl) phthalate	nd	nd	nd	--	--
<b><u>PCBs</u></b> (EPA Method 8080)(ug/l)					
	nd	nd	--	--	--
<b><u>NOTES:</u></b> --: Indicates compound was not analyzed for. nd: Indicates compound was not detected at the instrument detection limit.					

**TABLE 2**  
**AMERICAN NATIONAL CAN COMPANY**  
**FORMER OAKLAND, CALIFORNIA, FACILITY**

**Summary of Water Level Measurements**

WELL NO.	M.P. EL.	4/7/95			W.T. EL.	DEPTH TO PRODUCT	DEPTH TO WATER	W.T. EL.	DEPTH TO PRODUCT	DEPTH TO WATER	W.T. EL.	DEPTH TO PRODUCT	DEPTH TO WATER	W.T. EL.
		DEPTH TO PRODUCT	DEPTH TO WATER	W.T. EL.										
MW-1	15.47	<i>Decommissioned</i>												
MW-2	14.86	6.49	6.50	8.36										
MW-3	14.56	6.72	6.74	7.84										
MW-4	15.27		8.85	6.42										
MW-5	14.73	8.72	8.79	6.00										
MW-6	13.24		7.89	5.35										
MW-7	16.20		10.17	6.03										
MW-8	12.90	<i>Not Accessible</i>												
MW-9	11.69		7.56	4.13										
MW-10	13.03	<i>Not Accessible</i>												
MW-11	14.49		8.85	5.64										
MW-12	16.81	<i>Decommissioned</i>												
MW-13	18.31	<i>Not Accessible</i>												
MW-14	12.00		8.09	3.91										
MW-15	17.88	<i>Not Accessible</i>												
MW-16	12.26	<i>Decommissioned</i>												
MW-17	9.09	<i>Decommissioned</i>												
MW-18	13.10	<i>Decommissioned</i>												
MW-19	13.12	<i>Decommissioned</i>												
MW-20	13.14	<i>Decommissioned</i>												
MW-21	12.86	<i>Decommissioned</i>												
TW-1	17.76	<i>Not Accessible</i>												
GW-1	15.35	<i>Decommissioned</i>												
GW-1R	15.04		7.24	7.80										
GW-2	13.10	<i>Decommissioned</i>												
GW-2R	13.25	8.05	8.21	5.17										
GW-3	11.55	<i>Decommissioned</i>												
GW-4	11.70													
GW-5	17.72		7.02	10.70										
GW-6	19.78	<i>Not Accessible</i>												

\* Indicates a thin film (<0.01-feet thick) of product was detected on the water surface with an oil/water interface probe.  
All elevations (EL.) are expressed in feet above mean sea level.  
Depths are measured in feet below the well measuring point (M.P.).  
Estimated product specific gravity of 0.83 was used to calculate an adjusted depth to water in wells containing product.



Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: MW-4  
 Matrix: LIQUID  
 Analysis Method: EPA 8240  
 Lab Number: 9504664-01

Sampled: 04/10/95  
 Received: 04/10/95  
 Analyzed: 04/17/95  
 Reported: 04/24/95

QC Batch Number: MS0415958240F3A  
 Instrument ID: F3

**Volatile Organics (EPA 8240)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	17
Benzene	2.0	160
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	26
Chloroethane	2.0	5.9
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	9.1
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	5.1
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.





# Sequoia Analytical

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Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8240  
Lab Number: 9504664-01

Sampled: 04/10/95  
Received: 04/10/95  
Analyzed: 04/17/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0415958240F3A  
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	18

Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	97
Toluene-d8	88	94
4-Bromofluorobenzene	86	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8270  
Lab Number: 9504664-01

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

C Batch Number: MS0411958270EXA  
Instrument ID: H5

**Semivolatile Organics (EPA 8270)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	25	N.D.
Acenaphthylene	25	N.D.
Anthracene	25	N.D.
Benzoic Acid	50	N.D.
Benzo(a)anthracene	25	N.D.
Benzo(b)fluoranthene	25	N.D.
Benzo(k)fluoranthene	25	N.D.
Benzo(g,h,i)perylene	25	N.D.
Benzo(a)pyrene	25	N.D.
Benzyl alcohol	25	N.D.
Bis(2-chloroethoxy)methane	25	N.D.
Bis(2-chloroethyl)ether	25	N.D.
Bis(2-chloroisopropyl)ether	25	N.D.
Bis(2-ethylhexyl)phthalate	50	N.D.
4-Bromophenyl phenyl ether	25	N.D.
Butyl benzyl phthalate	25	N.D.
4-Chloroaniline	50	N.D.
2-Chloronaphthalene	25	N.D.
4-Chloro-3-methylphenol	25	N.D.
2-Chlorophenol	25	N.D.
4-Chlorophenyl phenyl ether	25	N.D.
Chrysene	25	N.D.
Dibenzo(a,h)anthracene	25	N.D.
Dibenzofuran	25	N.D.
Di-n-butyl phthalate	50	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
3,3-Dichlorobenzidine	50	N.D.
2,4-Dichlorophenol	25	N.D.
Diethyl phthalate	25	N.D.
2,4-Dimethylphenol	25	N.D.
Dimethyl phthalate	25	N.D.
4,6-Dinitro-2-methylphenol	50	N.D.
2,4-Dinitrophenol	50	N.D.





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Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8270  
Lab Number: 9504664-01

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	25	N.D.
2,6-Dinitrotoluene	25	N.D.
Di-n-octyl phthalate	25	N.D.
Fluoranthene	25	N.D.
Fluorene	25	N.D.
Hexachlorobenzene	25	N.D.
Hexachlorobutadiene	25	N.D.
Hexachlorocyclopentadiene	50	N.D.
Hexachloroethane	25	N.D.
Indeno(1,2,3-cd)pyrene	25	N.D.
Isophorone	25	N.D.
2-Methylnaphthalene	25	N.D.
2-Methylphenol	25	N.D.
4-Methylphenol	25	N.D.
Naphthalene	25	N.D.
2-Nitroaniline	50	N.D.
3-Nitroaniline	50	N.D.
4-Nitroaniline	50	N.D.
Nitrobenzene	25	N.D.
2-Nitrophenol	25	N.D.
4-Nitrophenol	50	N.D.
n-Nitrosodiphenylamine	25	N.D.
n-Nitroso-di-n-propylamine	25	N.D.
Pentachlorophenol	50	N.D.
Phenanthrene	25	N.D.
Phenol	25	N.D.
Pyrene	25	N.D.
1,2,4-Trichlorobenzene	25	N.D.
2,4,5-Trichlorophenol	50	N.D.
2,4,6-Trichlorophenol	25	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	49
Phenol-d5	10	110	40
Nitrobenzene-d5	35	114	74
2-Fluorobiphenyl	43	116	79
2,4,6-Tribromophenol	10	123	57
p-Terphenyl-d14	33	141	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager







Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8080  
Lab Number: 9504664-01

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/12/95  
Analyzed: 04/18/95  
Reported: 04/24/95

Attention: Walter Howard

GC Batch Number: GC0410950PCBEXA  
Instrument ID: GCHP21

**Polychlorinated Biphenyls (EPA 8080)**

Analyte	Detection Limit ug/L	Sample Results ug/L
PCB-1016	2.5	N.D.
PCB-1221	10	N.D.
PCB-1232	2.5	N.D.
PCB-1242	2.5	N.D.
PCB-1248	2.5	N.D.
PCB-1254	2.5	N.D.
PCB-1260	2.5	N.D.

Surrogates	Control Limits %		% Recovery
Dibutylchloroendate	50	150	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8015 Mod  
Lab Number: 9504664-01

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/18/95  
Analyzed: 04/21/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: GC0418950HBPEXB  
Instrument ID: GCHP5A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	1000	7700
Chromatogram Pattern: Unidentified HC		C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	133

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-6  
Matrix: LIQUID  
Analysis Method: EPA 8240  
Lab Number: 9504664-02

Sampled: 04/10/95  
Received: 04/10/95  
Analyzed: 04/17/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0412958240H6A  
Instrument ID: H6

**Volatile Organics (EPA 8240)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
<b>1,1-Dichloroethane</b>	<b>2.0</b>	<b>29</b>
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
<b>1,1,1-Trichloroethane</b>	<b>2.0</b>	<b>3.1</b>
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.





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Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-6  
Matrix: LIQUID  
Analysis Method: EPA 8240  
Lab Number: 9504664-02

Sampled: 04/10/95  
Received: 04/10/95  
Analyzed: 04/17/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0412958240H6A  
Instrument ID: H6

### Analyte

Detection Limit  
ug/L

Sample Results  
ug/L

Vinyl chloride  
Total Xylenes

2.0  
2.0

N.D.  
N.D.

### Surrogates

1,2-Dichloroethane-d4  
Toluene-d8  
4-Bromofluorobenzene

Control Limits %

% Recovery

76 114  
88 110  
86 115

95  
100  
100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-6  
Matrix: LIQUID  
Analysis Method: EPA 8270  
Lab Number: 9504664-02

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
Instrument ID: H5

**Semivolatile Organics (EPA 8270)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





# Sequoia Analytical

680 Chesapeake Drive  
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Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-6  
Matrix: LIQUID  
Analysis Method: EPA 8270  
Lab Number: 9504664-02

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	46
Phenol-d5	10	110	36
Nitrobenzene-d5	35	114	70
2-Fluorobiphenyl	43	116	70
2,4,6-Tribromophenol	10	123	72
p-Terphenyl-d14	33	141	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I
695 River Oaks Parkway
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: EPA 8080
Lab Number: 9504664-02

Sampled: 04/10/95
Received: 04/10/95
Extracted: 04/12/95
Analyzed: 04/18/95
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: GC0410950PCBEXA
Instrument ID: GCHP21

Polychlorinated Biphenyls (EPA 8080)

Table with 3 columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260.

Table with 3 columns: Surrogates, Control Limits %, % Recovery. Row includes Dibutylchlorodate.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Kevin Follett

Kevin Follett
Project Manager





Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: MW-6  
 Matrix: LIQUID  
 Analysis Method: EPA 8015 Mod  
 Lab Number: 9504664-02

Sampled: 04/10/95  
 Received: 04/10/95  
 Extracted: 04/18/95  
 Analyzed: 04/21/95  
 Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: GC0418950HBPEXB  
 Instrument ID: GCHP5A


**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	100  C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	86

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
 \_\_\_\_\_  
 Kevin Follett  
 Project Manager







Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: MW-7  
 Matrix: LIQUID  
 Analysis Method: EPA 8240  
 Lab Number: 9504664-03

Sampled: 04/10/95  
 Received: 04/10/95  
 Analyzed: 04/17/95  
 Reported: 04/24/95

QC Batch Number: MS0412958240H6A  
 Instrument ID: H6

**Volatile Organics (EPA 8240)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
<b>Benzene</b>	<b>2.0</b>	<b>15</b>
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
<b>Chlorobenzene</b>	<b>2.0</b>	<b>8.0</b>
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.





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 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Rust E&I Client Proj. ID: American Nat'l Can 35195.101 Sampled: 04/10/95  
 695 River Oaks Parkway Sample Descript: MW-7 Received: 04/10/95  
 San Jose, CA 95134 Matrix: LIQUID  
 Attention: Walter Howard Analysis Method: EPA 8240 Analyzed: 04/17/95  
 Lab Number: 9504664-03 Reported: 04/24/95

QC Batch Number: MS0412958240H6A  
 Instrument ID: H6

Analyte	Detection Limit ug/L	Sample Results ug/L
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	96
Toluene-d8	88	110	101
4-Bromofluorobenzene	86	115	102

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Kevin Follett  
 Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-7  
Matrix: LIQUID  
Analysis Method: EPA 8270  
Lab Number: 9504664-03

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
Instrument ID: H5

**Semivolatile Organics (EPA 8270)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





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Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: MW-7  
 Matrix: LIQUID  
 Analysis Method: EPA 8270  
 Lab Number: 9504664-03

Sampled: 04/10/95  
 Received: 04/10/95  
 Extracted: 04/13/95  
 Analyzed: 04/13/95  
 Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
 Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	50
Phenol-d5	10	110	38
Nitrobenzene-d5	35	114	71
2-Fluorobiphenyl	43	116	73
2,4,6-Tribromophenol	10	123	81
p-Terphenyl-d14	33	141	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
 Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-7  
Matrix: LIQUID  
Analysis Method: EPA 8015 Mod  
Lab Number: 9504664-03

Sampled: 04/10/95  
Received: 04/10/95  
Extracted: 04/18/95  
Analyzed: 04/20/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: GC0418950HBPEXB  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	1900
Chromatogram Pattern: Unidentified HC		C9-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	137

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134  
Attention: Walter Howard

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: MW-9  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9504664-04

Sampled: 04/10/95  
Received: 04/10/95  
Analyzed: 04/19/95  
Reported: 04/24/95

QC Batch Number: GC041895BTEX20A  
Instrument ID: GCHP20

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
Project Manager





Rust E&I Client Proj. ID: American Nat'l Can 35195.101 Sampled: 04/10/95
695 River Oaks Parkway San Jose, CA 95134 Sample Descript: MW-14 Received: 04/10/95
Attention: Walter Howard Matrix: LIQUID Analysis Method: 8015Mod/8020 Analyzed: 04/19/95
Lab Number: 9504664-05 Reported: 04/24/95

QC Batch Number: GC041895BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 3 columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include TPHH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), and Chromatogram Pattern.

Table with 3 columns: Surrogates, Control Limits %, % Recovery. Row includes Trifluorotoluene.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Kevin Follett.

Kevin Follett
Project Manager



Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: METHOD BLANK  
 Matrix:  
 Analysis Method: EPA 8240  
 Lab Number: 9504664-06

Sampled:  
 Received: 04/10/95  
 Analyzed: 04/17/95  
 Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0412958240H6A  
 Instrument ID: H6

**Volatile Organics (EPA 8240)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.







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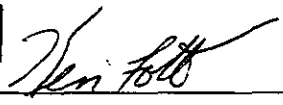
Rust E&I 695 River Oaks Parkway San Jose, CA 95134	Client Proj. ID: American Nat'l Can 35195.101 Sample Descript: METHOD BLANK Matrix: Analysis Method: EPA 8240 Lab Number: 9504664-06	Sampled: Received: 04/10/95 Analyzed: 04/17/95 Reported: 04/24/95
Attention: Walter Howard		
GC Batch Number: MS0412958240H6A Instrument ID: H6		

Analyte	Detection Limit ug/L	Sample Results ug/L
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	95
Toluene-d8	88	110	100
4-Bromofluorobenzene	86	115	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

  
\_\_\_\_\_  
Kevin Follett  
Project Manager





Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: METHOD BLANK  
Matrix:  
Analysis Method: EPA 8270  
Lab Number: 9504664-06

Sampled:  
Received: 04/10/95  
Extracted: 04/13/95  
Analyzed: 04/13/95  
Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
Instrument ID: H5

**Semivolatile Organics (EPA 8270)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





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 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Rust E&I  
 695 River Oaks Parkway  
 San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
 Sample Descript: METHOD BLANK  
 Matrix:  
 Analysis Method: EPA 8270  
 Lab Number: 9504664-06

Sampled:  
 Received: 04/10/95  
 Extracted: 04/13/95  
 Analyzed: 04/13/95  
 Reported: 04/24/95

Attention: Walter Howard

QC Batch Number: MS0411958270EXA  
 Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	46
Phenol-d5	10	110	36
Nitrobenzene-d5	35	114	69
2-Fluorobiphenyl	43	116	69
2,4,6-Tribromophenol	10	123	64
p-Terphenyl-d14	33	141	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett  
 Project Manager



Rust E&I  
695 River Oaks Parkway  
San Jose, CA 95134

Client Proj. ID: American Nat'l Can 35195.101  
Sample Descript: METHOD BLANK  
Matrix:  
Analysis Method: EPA 8080  
Lab Number: 9504664-06

Sampled:  
Received: 04/10/95  
Extracted: 04/12/95  
Analyzed: 04/17/95  
Reported: 04/24/95

QC Batch Number: GC0410950PCBEXA  
Instrument ID: GCHP10

**Polychlorinated Biphenyls (EPA 8080)**

Analyte	Detection Limit ug/L	Sample Results ug/L
PCB-1016	0.50	N.D.
PCB-1221	2.0	N.D.
PCB-1232	0.50	N.D.
PCB-1242	0.50	N.D.
PCB-1248	0.50	N.D.
PCB-1254	0.50	N.D.
PCB-1260	0.50	N.D.

Surrogates	Control Limits %	% Recovery
Dibutylchlorendate	50                      150	113

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Kevin Follett  
Project Manager





# Sequoia Analytical

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FAX (916) 921-0100

Rust E & I  
695 River Oaks Parkway  
San Jose, CA 95134  
Attention: Walter Howard

Client Project ID: American Nat'l Can 35195.101  
Matrix: Liquid

Work Order #: 9504664 01, 02, 03

Reported: Apr 25, 1995

## QUALITY CONTROL DATA REPORT

<b>Analyte:</b>	Diesel
<b>QC Batch#:</b>	GC0418950HBPEXB
<b>Analy. Method:</b>	EPA 8015M
<b>Prep. Method:</b>	EPA3510

**Analyst:** B. Ali  
**MS/MSD #:** 950466403  
**Sample Conc.:** 1900  
**Prepared Date:** 4/18/95  
**Analyzed Date:** 4/20/95  
**Instrument I.D.#:** GCHP4A  
**Conc. Spiked:** 600 µg/L

**Result:** 2200  
**MS % Recovery:** 50

**Dup. Result:** 2400  
**MSD % Recov.:** 83

**RPD:** 8.7  
**RPD Limit:** 0-50

**LCS #:** BLK041895  
**Prepared Date:** 4/18/95  
**Analyzed Date:** 4/20/95  
**Instrument I.D.#:** GCHP4A  
**Conc. Spiked:** 600 µg/L  
**LCS Result:** 420  
**LCS % Recov.:** 70

<b>MS/MSD</b>	
<b>LCS</b>	38-122
<b>Control Limits</b>	

SEQUOIA ANALYTICAL

*Kevin Follett*  
 Kevin Follett  
 Project Manager

**Please Note:**  
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\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9504664.RRR <1>





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Rust E & I  
 695 River Oaks Parkway  
 San Jose, CA 95134  
 Attention: Walter Howard

Client Project ID: American Nat'l Can 35195.101  
 Matrix: Liquid

Work Order #: 9504664 04, 05 Reported: Apr 25, 1995

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC041895BTEX20A	GC041895BTEX20A	GC041895BTEX20A	GC041895BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950444408	950444408	950444408	950444408
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/18/95	4/18/95	4/18/95	4/18/95
Analyzed Date:	4/18/95	4/18/95	4/18/95	4/18/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	-10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:  
 Analyzed Date:  
 Instrument I.D.#:  
 Conc. Spiked:

LCS Result:  
 LCS % Recov.:

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

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SEQUOIA ANALYTICAL

Kevin Follett  
 Project Manager

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9504664.RRR <2>





**Rust E & I**  
695 River Oaks Parkway  
San Jose, CA 95134  
Attention: Walter Howard

**Client Project ID:** American Nat'l Can 35195.101  
**Matrix:** Liquid

**Work Order #:** 9504664 01-02

**Reported:** Apr 25, 1995

**QUALITY CONTROL DATA REPORT**

**Analyte:** PCB 1260  
**QC Batch#:** GC0410950PCBEXA  
**Analy. Method:** EPA 8080  
**Prep. Method:** EPA3510

**Analyst:** L. Haar  
**MS/MSD #:** BLK041095  
**Sample Conc.:** N.D.  
**Prepared Date:** 4/10/95  
**Analyzed Date:** 4/11/95  
**Instrument I.D.#:** GCHP21  
**Conc. Spiked:** 2.5 µg/L

**Result:** 2.0  
**MS % Recovery:** 80

**Dup. Result:** 2.0  
**MSD % Recov.:** 80

**RPD:** 0.0  
**RPD Limit:** 0-50

**LCS #:**

**Prepared Date:**  
**Analyzed Date:**  
**Instrument I.D.#:**  
**Conc. Spiked:**

**LCS Result:**  
**LCS % Recov.:**

**MS/MSD**  
**LCS** 50-150  
**Control Limits**

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**SEQUOIA ANALYTICAL**

*Kevin Follett*  
Kevin Follett  
Project Manager





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FAX (916) 921-0100

Rust E & I  
695 River Oaks Parkway  
San Jose, CA 95134  
Attention: Walter Howard

Client Project ID: American Nat'l Can 35195.101  
Matrix: Liquid

Work Order #: 9504664 01

Reported: Apr 25, 1995

## QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0415958240F3A	MS0415958240F3A	MS0415958240F3A	MS0415958240F3A	MS0415958240F3A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	950431910	950431910	950431910	950431910	950431910
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	4/15/95	4/15/95	4/15/95	4/15/95	4/15/95
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	46	48	48	51	51
MS % Recovery:	92	96	96	102	102
Dup. Result:	45	48	49	50	49
MSD % Recov.:	90	96	98	100	98
RPD:	2.2	0.0	2.1	2.0	4.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:  
Analyzed Date:  
Instrument I.D.#:  
Conc. Spiked:

LCS Result:  
LCS % Recov.:

MS/MSD	DL-234	71-157	37-151	47-150	37-160
LCS					
Control Limits					

SEQUOIA ANALYTICAL

Kevin Follett  
Project Manager

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\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference







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Rust E & I  
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San Jose, CA 95134  
Attention: Walter Howard

Client Project ID: American Nat'l Can 35195.101  
Matrix: Liquid

Work Order #: 9504664 02, 03

Reported: Apr 25, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0412958240H6A	MS0412958240H6A	MS0412958240H6A	MS0412958240H6A	MS0412958240H6A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

Analyst:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	950426401	950426401	950426401	950426401	950426401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95
Instrument I.D.#:	H6	H6	H6	H6	H6
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	47	47	48	48	47
MS % Recovery:	94	94	96	96	94
Dup. Result:	46	47	50	49	48
MSD % Recov.:	92	94	100	98	96
RPD:	2.2	0.0	2.0	2.1	2.1
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:  
Analyzed Date:  
Instrument I.D.#:  
Conc. Spiked:

LCS Result:  
LCS % Recov.:

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160
---------------------------------	--------	--------	--------	--------	--------

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\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

**SEQUOIA ANALYTICAL**

*Kevin Follett*  
Kevin Follett  
Project Manager

9504664.RRR <5>





# Sequoia Analytical

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Rust E & I  
 695 River Oaks Parkway  
 San Jose, CA 95134  
 Attention: Walter Howard

Client Project ID: American Nat'l Can 35195.101  
 Matrix: Liquid

Work Order #: 9504664 01-03 Reported: Apr 25, 1995

## QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	Ms0411958270EXA	Ms0411958270EXA	Ms0411958270EXA	Ms0411958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510

Analyt:	S. Hoffmann	S. Hoffmann	S. Hoffmann	S. Hoffmann
MS/MSD #:	950420301	950420301	950420301	950420301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/11/95	4/11/95	4/11/95	4/11/95
Analyzed Date:	4/12/95	4/12/95	4/12/95	4/12/95
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	68	150	120	160
MS % Recovery:	34	75	60	80
Dup. Result:	72	150	130	150
MSD % Recov.:	36	75	65	75
RPD:	5.7	0.0	8.0	6.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:  
 Analyzed Date:  
 Instrument I.D.#:  
 Conc. Spiked:

LCS Result:  
 LCS % Recov.:

MS/MSD LCS Control Limits	5-112	23-134	20-124	DL-230
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\*\* MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

*Kevin Follett*  
 Kevin Follett  
 Project Manager





Rust E & I  
695 River Oaks Parkway  
San Jose, CA 95134  
Attention: Walter Howard  
COC #:

Client Project ID: American Nat'l Can 35195.101  
Matrix: Liquid

Work Order #: 9504664 01-03

Reported: Apr 25, 1995

**QUALITY CONTROL DATA REPORT**

<b>Analyte:</b>	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
<b>QC Batch#:</b>	Ms0411958270EXA	Ms0411958270EXA	Ms0411958270EXA	Ms0411958270EXA
<b>Analy. Method:</b>	EPA 8270	EPA 8270	EPA 8270	EPA 8270
<b>Prep. Method:</b>	EPA 3510	EPA 3510	EPA 3510	EPA 3510

<b>Analyst:</b>	S. Hoffmann	S. Hoffmann	S. Hoffmann	S. Hoffmann
<b>MS/MSD #:</b>	950420301	950420301	950420301	950420301
<b>Sample Conc.:</b>	N.D.	N.D.	N.D.	N.D.
<b>Prepared Date:</b>	4/11/95	4/11/95	4/11/95	4/11/95
<b>Analyzed Date:</b>	4/12/95	4/12/95	4/12/95	4/12/95
<b>Instrument I.D.#:</b>	H5	H5	H5	H5
<b>Conc. Spiked:</b>	200 µg/L	200 µg/L	200 µg/L	200 µg/L
<b>Result:</b>	140	150	140	66
<b>MS % Recovery:</b>	70	75	70	33
<b>Dup. Result:</b>	140	150	140	78
<b>MSD % Recov.:</b>	70	75	70	39
<b>RPD:</b>	0.0	0.0	0.0	17
<b>RPD Limit:</b>	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:  
Analyzed Date:  
Instrument I.D.#:  
Conc. Spiked:

LCS Result:  
LCS % Recov.:

<b>MS/MSD LCS Control Limits</b>	44-142	22-147	47-145	DL-132
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SEQUOIA ANALYTICAL

*Kevin Follett*  
Kevin Follett  
Project Manager

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\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference





Rust E & I  
695 River Oaks Parkway  
San Jose, CA 95134

Attention: Walter Howard

Client Project ID: American Natl Can 35195.101

Matrix: Liquid

Work Order #: 9504664 01-03

Reported: Apr 25, 1995

COC #:

QUALITY CONTROL DATA REPORT

<b>Analyte:</b>	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
<b>QC Batch#:</b>	Ms0411958270EXA	Ms0411958270EXA	Ms0411958270EXA
<b>Analy. Method:</b>	EPA 8270	EPA 8270	EPA 8270
<b>Prep. Method:</b>	EPA 3510	EPA 3510	EPA 3510

<b>Analyst:</b>	S. Hoffmann	S. Hoffmann	S. Hoffmann
<b>MS/MSD #:</b>	950420301	950420301	950420301
<b>Sample Conc.:</b>	N.D.	N.D.	N.D.
<b>Prepared Date:</b>	4/11/95	4/11/95	4/11/95
<b>Analyzed Date:</b>	4/12/95	4/12/95	4/12/95
<b>Instrument I.D.#:</b>	H5	H5	H5
<b>Conc. Spiked:</b>	200 µg/L	200 µg/L	200 µg/L

<b>Result:</b>	150	210	170
<b>MS % Recovery:</b>	75	105	85

<b>Dup. Result:</b>	150	220	160
<b>MSD % Recov.:</b>	75	110	80

<b>RPD:</b>	0.0	4.7	6.1
<b>RPD Limit:</b>	0-50	0-50	0-50

LCS #:

Prepared Date:  
Analyzed Date:  
Instrument I.D.#:  
Conc. Spiked:

LCS Result:  
LCS % Recov.:

<b>MS/MSD LCS Control Limits</b>	39-139	14-176	52-115
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SEQUOIA ANALYTICAL

Kevin Follett  
Project Manager

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**LEGEND**

MW-3 WELL IDENTIFICATION NUMBER

● MONITORING WELL LOCATION

7.84 GROUNDWATER ELEVATION

✕✕ DECOMMISSIONED WELL

○ NOT ACCESSIBLE

— 4.0' GROUNDWATER CONTOUR  
(dashed where inferred)

← DIRECTION OF GROUNDWATER FLOW

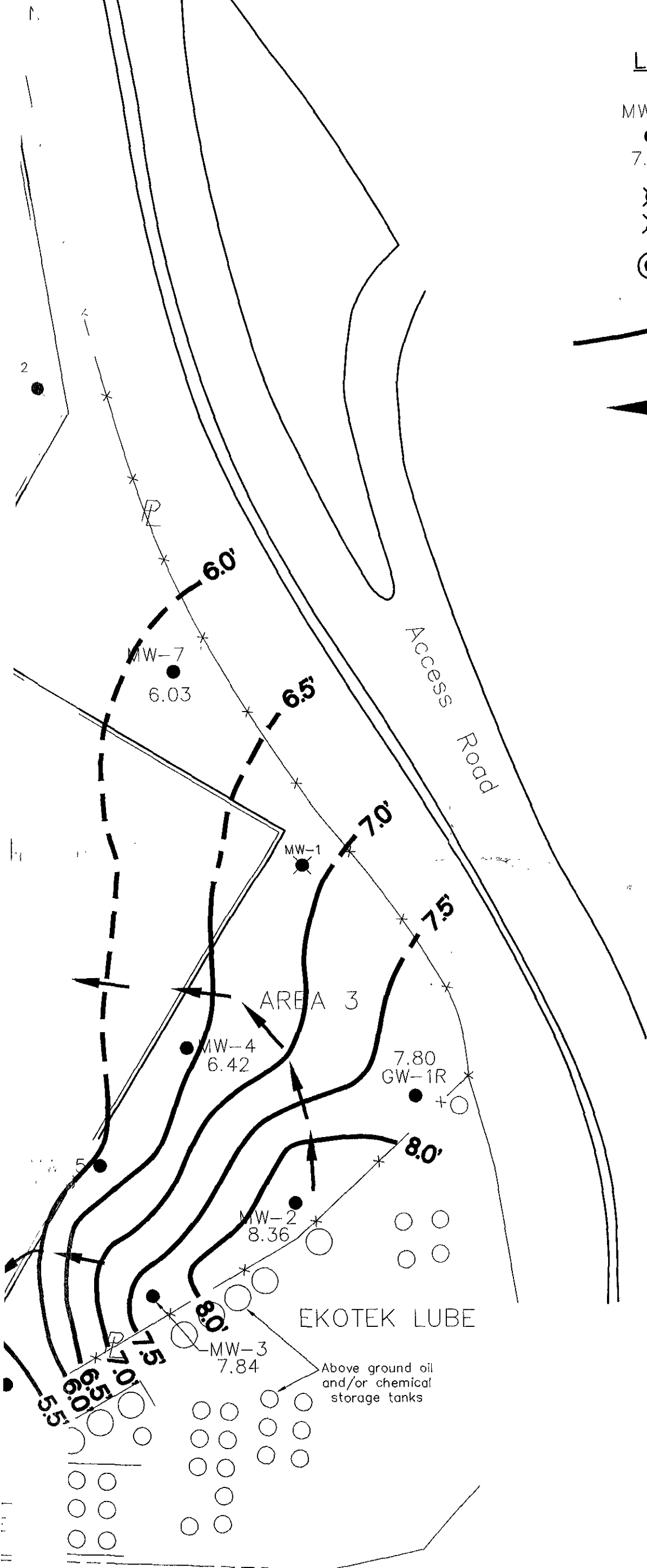


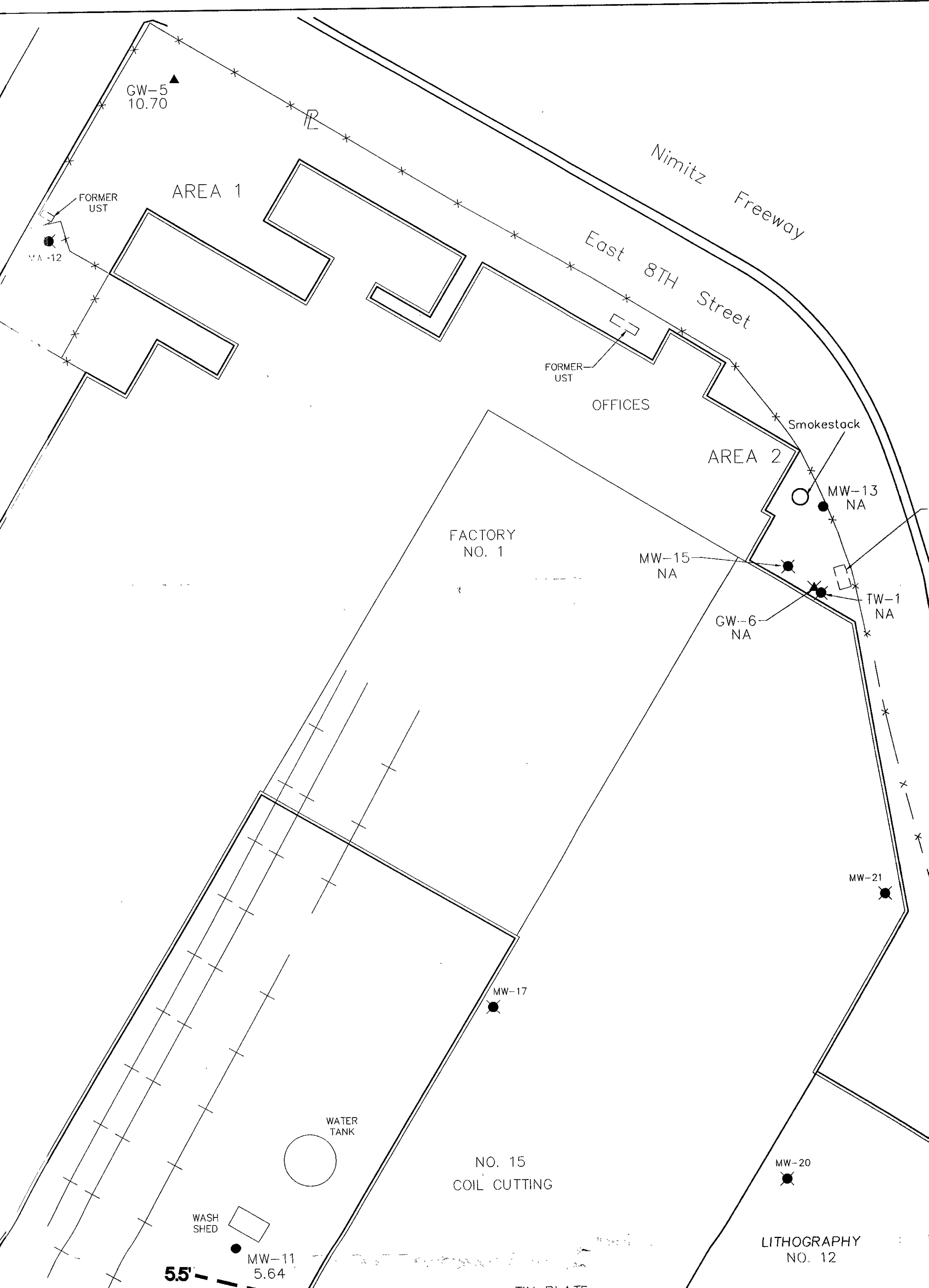
PLATE 19

**RUST** ENVIRONMENT & INFRASTRUCTURE

DATUM:	MSL
Howard	CONTOUR INTERVAL: 0.5'/1.0'
W. Alusow	U.S.G.S. QUAD.: OAKLAND EAST

CLIENT DWG. NO.	
RUST DWG. NO.	M8985_20
PROJECT NUMBER	39195 101

GROUNDWATER CONTOUR MAP 4/7/95  
AMERICAN NATIONAL CAN  
FORMER OAKLAND PLANT



GW-5  
10.70

AREA 1

FORMER  
UST

VA-12

Nimitz  
Freeway

East 8TH  
Street

FORMER  
UST

OFFICES

Smokestack

AREA 2

MW-13  
NA

FACTORY  
NO. 1

MW-15  
NA

GW-6  
NA

TW-1  
NA

MW-21

MW-17

WATER  
TANK

NO. 15  
COIL CUTTING

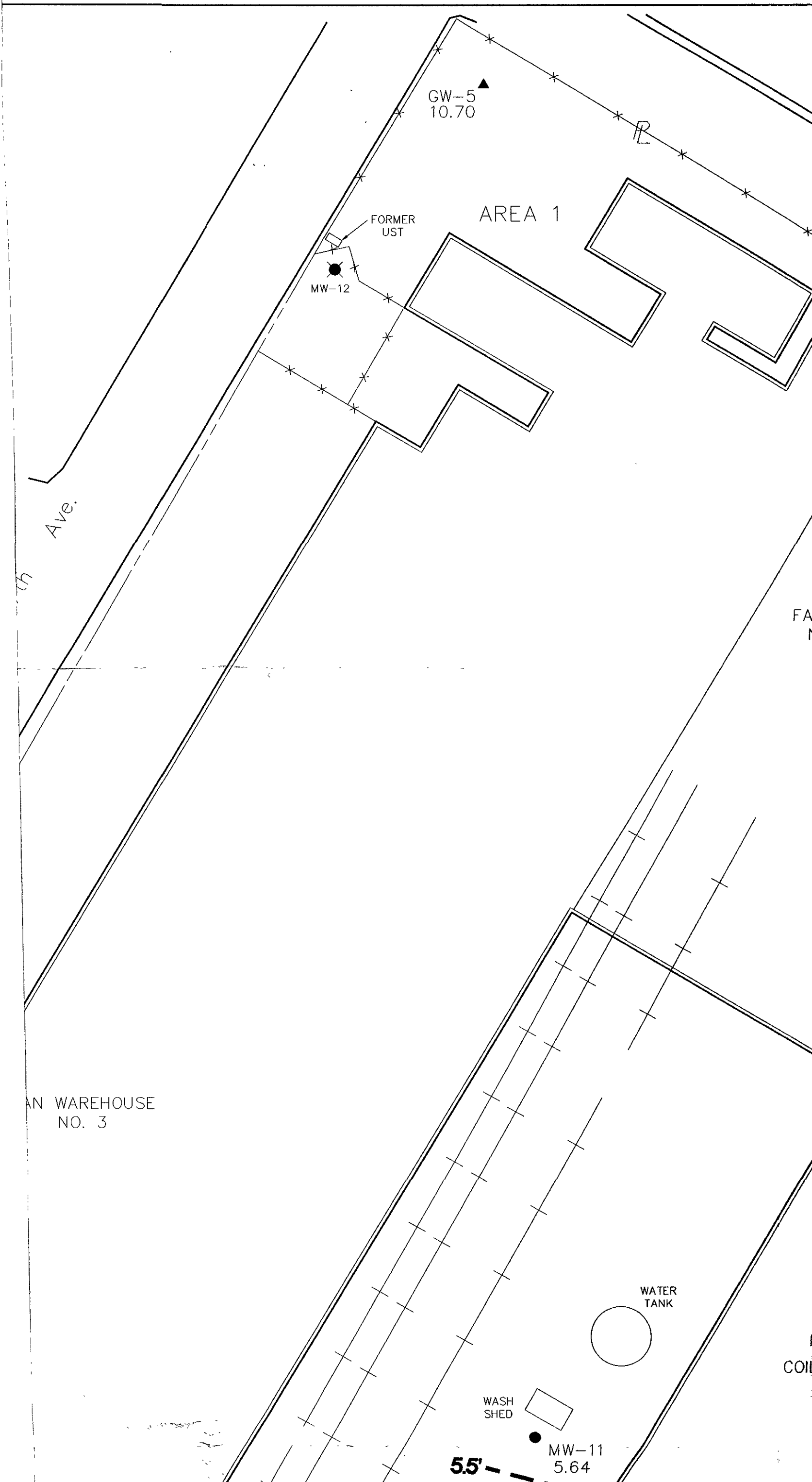
WASH  
SHED

MW-11  
5.64

MW-20

LITHOGRAPHY  
NO. 12

55'

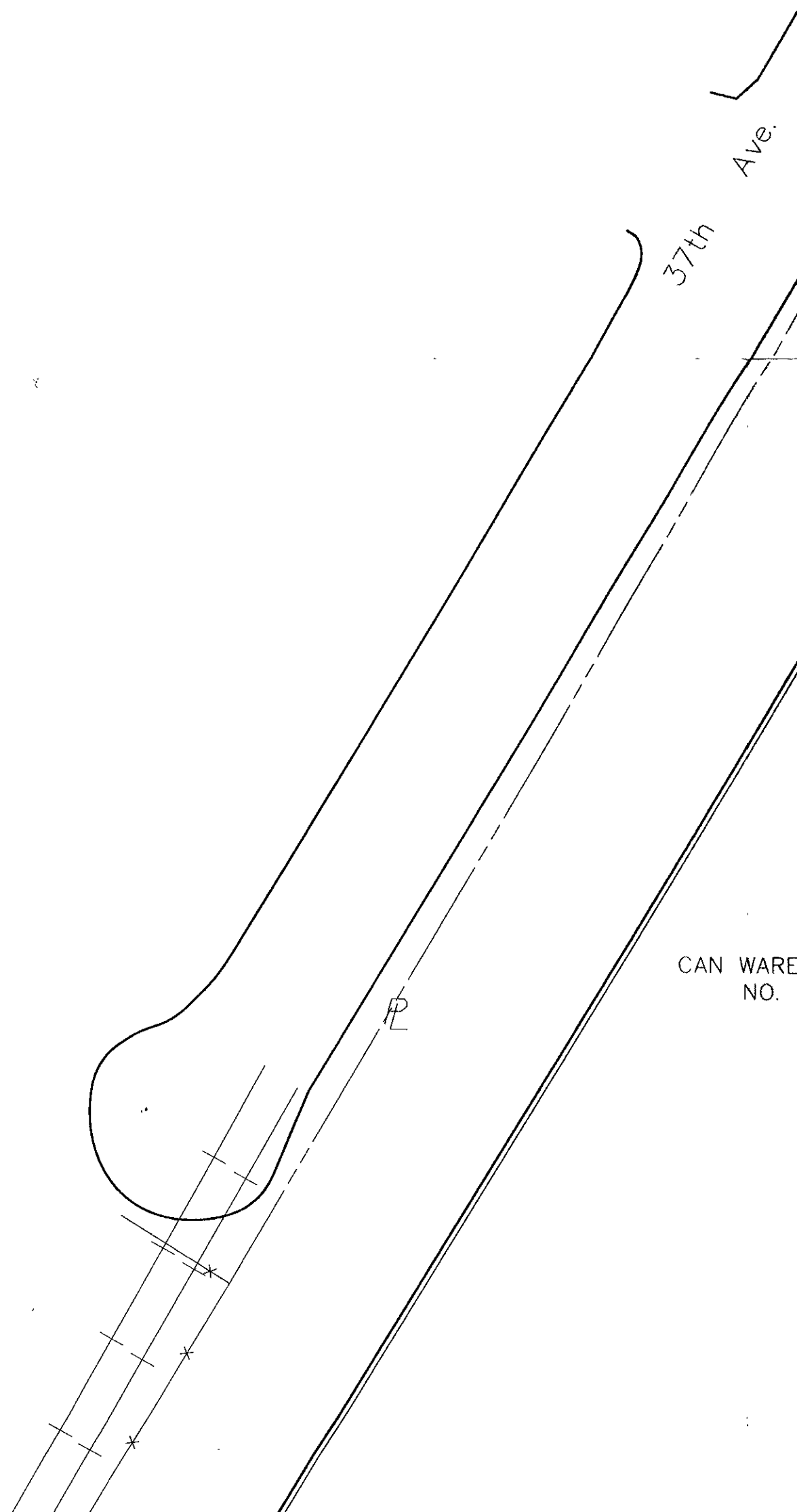




Ave.

37th

CAN WARE  
NO.



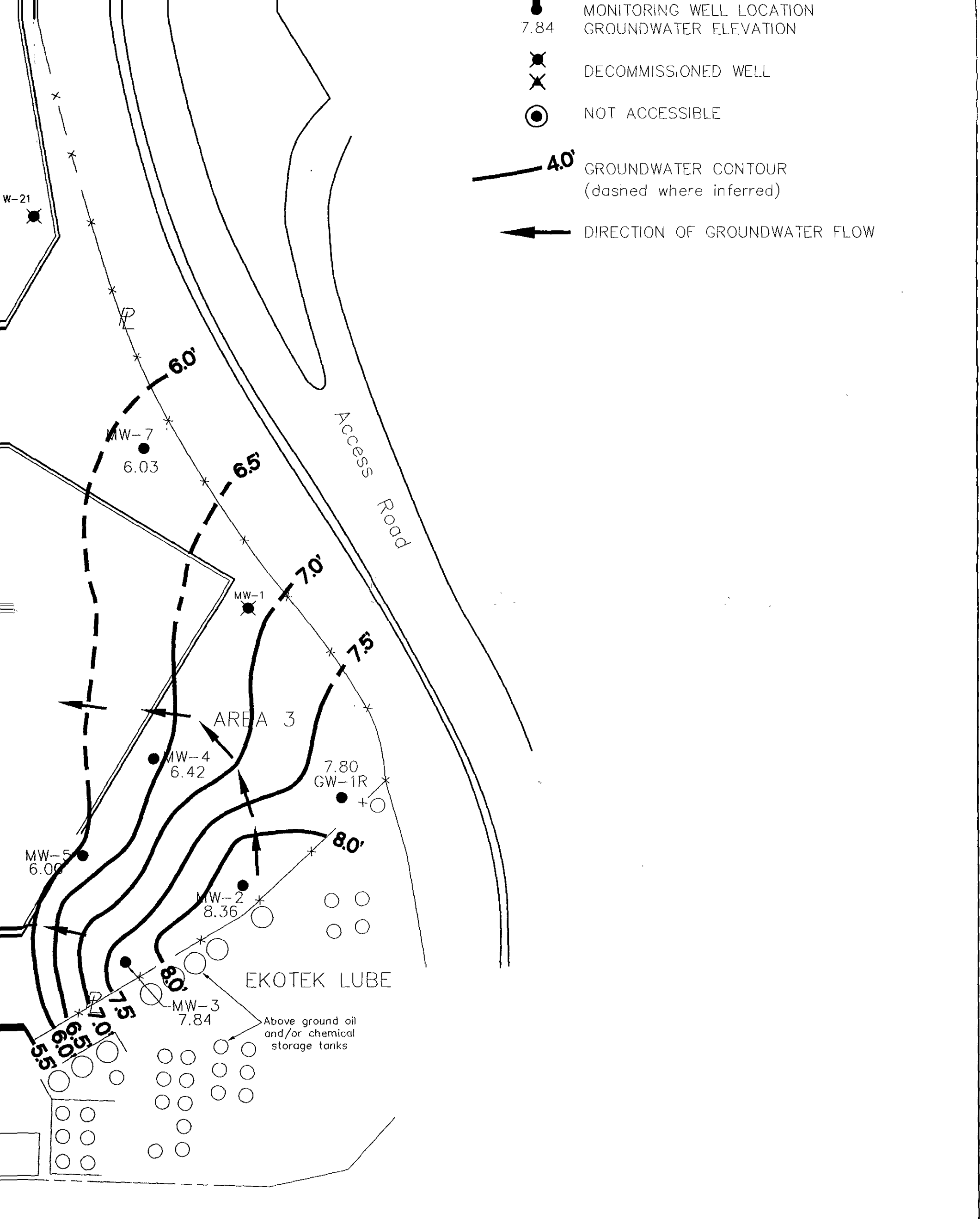
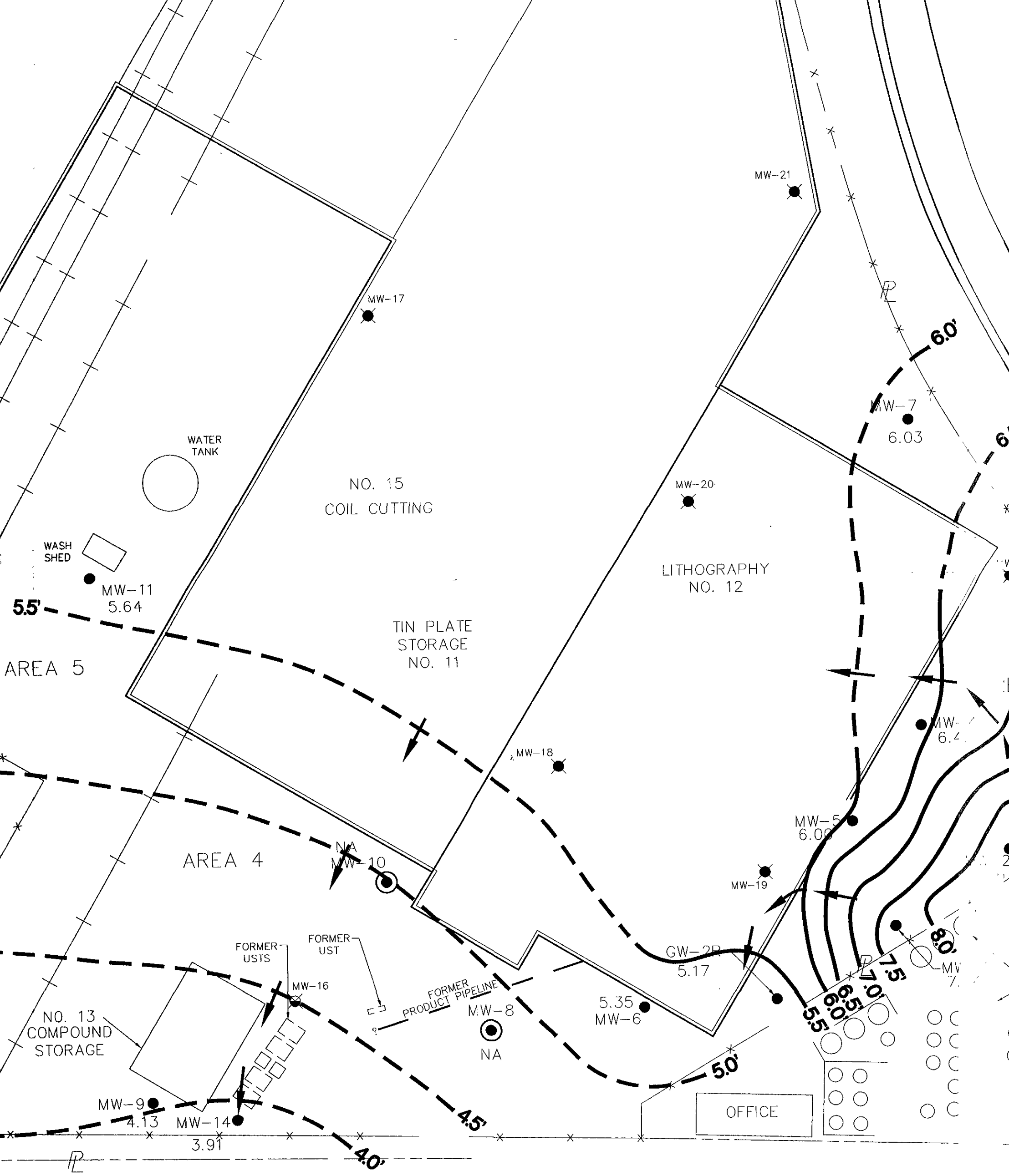


PLATE 19

		<b>RUST ENVIRONMENT &amp; INFRASTRUCTURE</b>	
DATUM: MSL O. Howard W. Alusow		CLIENT DWG. NO. RUST DWG. NO. M8985_20 PROJECT NUMBER 39195.101 DATE DRAWN:	GROUNDWATER CONTOUR MAP 4/7/95 AMERICAN NATIONAL CAN FORMER OAKLAND PLANT
CONTOUR INTERVAL: 0.5'/1.0' U.S.G.S. QUAD.: OAKLAND EAST		REVISION NUMBER 0 SHEET NUMBER 1 OF 1	
SCALE IN FEET 0 25' 50'		CITY OF OAKLAND ALAMEDA COUNTY, CA	

CAD FILE NAME:  
PLOT DATE:



NO.	DESCRIPTION	MADE	CHK	DATE

NAMES	
DRAWN: WRF	DATUM:
DESIGN: Walter O. Howard	CONTOUR: 1' = 50'
PROJ. MGR.: Edward W. Alusow	U.S.G.S.:
PROJ. ENG.:	
CHECKED:	
SCALE: 1" = 50'	



