ROUX

ENVIRONMENTAL CONSULTING
AND MANAGEMENT

Number of pages including cover sheet: 12

ROUX ASSOCIATES

55 Gateway Boulevard
Suite 770
Concord, California 94520

FAX TRANSMITTAL

Date: 11/2/92

To: CHUCK MARYATT

Company: MARYATT INDUSTRIES

FAX No: 206 / 285-3345

From: BRAD HALL

Project No. 2220.1W01

Roux Associates, Inc.
Fax No: (510) 687-1258
Phone No: (510) 602-2333

Comments: ATTACHED ARE THE DATA TABLES AND WELL LOGS FOR WELLS MW1 THROUGH MW6

AMERICAN LINEN SUPPLY COMPANY/SEATTLE PLANT CONTAMINATION

I. Summary of Environmental Site Assessment

An environmental site assessment has been conducted at American Linen Supply Company's Seattle plant site located at 771 Valley Street, Seattle, Washington. The facility is a commercial laundry that occupies approximately 1.4 acres of land. The location of the site is shown on Figure 1.

The results of soil and groundwater sampling indicate the presence of hazardous substance in site soils and groundwater. Concentrations of several hazardous substances, including tetrachloroethylene and benzene, were detected. The sources of the substances appear to be a former dry cleaning operation and underground storage tanks that were removed several years ago, as well as off-site sources.

II. Summary of Findings

Constituents associated with fuels were detected in five of the six groundwater monitoring wells. The highest concentrations were detected in wells MW-1, MW-2 and MW-3, which are located in the area where underground storage tanks used to be. Gasoline, diesel and "heavier" range hydrocarbons were detected in these wells. Lower concentrations of gasoline and diesel range hydrocarbons were detected in wells MW-4 and MW-5. The location of this contamination indicates an off-site source.

Solvents typical of dry-cleaning operations were detected in wells MW-1, MW-4 and MW-6. The highest concentrations were detected in well MW-6, which is downgradient of the portion of the site where dry-cleaning operations were formerly conducted.

A summary of water level measurements and water quality data is attached hereto as Figures 2 and 3.

III. Status of Department of Ecology Investigations

ALS submitted a report on Seattle plant environmental site assessment to the Washington Department of Ecology's Toxics Cleanup Division. Ecology personnel have scheduled a site tour to begin the hazard ranking process under the Washington Model Toxics Control Act.

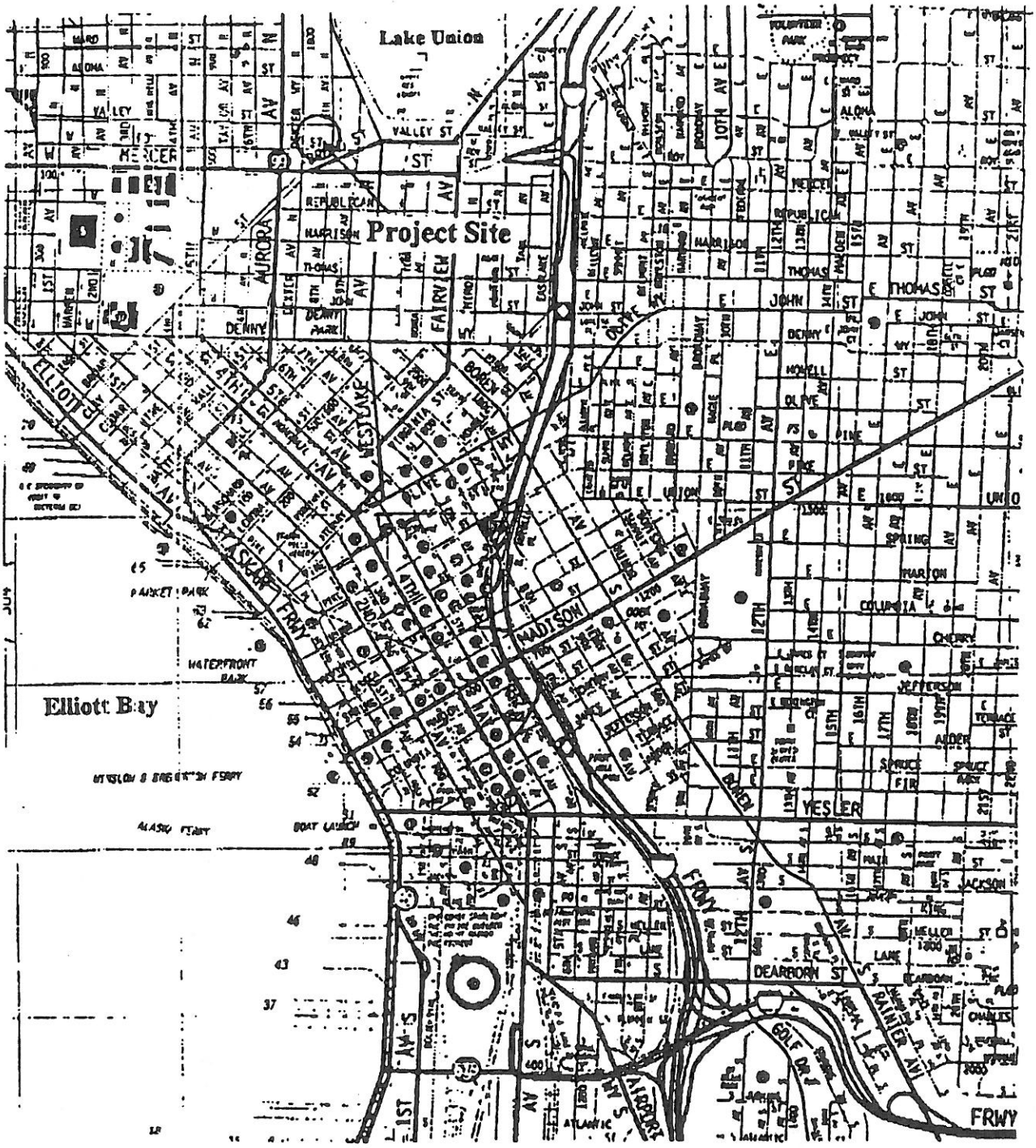
IV. RI/FS and Site Cleanup Issues

Ecology is likely to require that ALS perform an initial phase of site investigations, including quarterly or semi-annual monitoring of groundwater, and the installation of soil borings to further characterize the extent and nature of source soil contamination. Ecology may require additional soil and

groundwater investigations, and the performance of a feasibility study.

Interim and final cleanup actions required by Ecology could include soil excavation, treatment and disposal, and groundwater extraction and treatment.

There is not sufficient information at this time to predict accurately RI/FS and cleanup action costs that will be incurred by ALS. Nonetheless, given the presence of hazardous substances in the soil and groundwater at levels in excess of State cleanup standards, it is possible that total environmental investigation and cleanup costs could exceed the net book value of ALS.



Maryatt Industries, Inc.
Seattle, Washington

Vicinity Map

HEW-016 **FIGURE 1** December 1992

Dalton, Olmsted & Fuglevand, Inc.

Table 1 - Summary of Water Level Measurements

Well No.	Date	Elevation (a) TOC	Depth to Water	Water Level Elevation
MW-1				
	10-23-92	28.11	7.11	21.00
	10-24-92	28.11	7.15	20.96
	10-27-92	28.11	7.36	20.75
	10-28-92	28.11	7.38	20.73
MW-2				
	10-23-92	30.86	10.00	20.86
	10-24-92	30.86	10.04	20.82
	10-27-92	30.86	10.13	20.73
	10-28-92	30.86	10.15	20.71
MW-3				
	10-23-92	32.04	11.25	20.79
	10-24-92	32.04	11.29	20.75
	10-27-92	32.04	11.39	20.65
	10-28-92	32.04	11.41	20.63
MW-4				
	10-24-92	40.94	21.99	18.95
	10-27-92	40.94	21.93	19.01
	10-28-92	40.94	21.93	19.01
MW-5				
	10-28-92	47.20	22.89	24.31
MW-6				
	10-28-92	35.39	17.85	17.54

Notes: (a) - Elevation in feet relative to sea level.
TOC = Top of PVC Casing
Source: ROUX Associates, Inc.

Marymt Industries, Inc.
Seattle, Washington

Table 2 - Summary of Water Quality Data

814 ppb   31 ppb

Well / Sampling Date / Sampler	[redacted]	[redacted]	[redacted]	MW-2 10-24-92 ROUX	MW-2 10-24-92 DOF	[redacted]	[redacted]	MW-4 10-24-92 ROUX	MW-4 10-24-92 DOF	MW-4 11-3-92 DOF	MW-4 11-5-92 DOF
Constituent											
Tetrachloroethylene	0.003	0.0042	0.038	<0.005	---	<0.005	---	0.814	---	0.081	0.03
Total 1,2-Dichloroethene	---	0.012	0.042	---	---	---	---	---	---	<0.002	<0.002
Trichloroethene	<0.005	0.0008	<0.020	<0.005	---	<0.005	---	0.069	---	0.0028	0.0029
Vinyl Chloride	0.1	0.17	0.21	<0.005	---	<0.005	---	<0.005	---	<0.002	<0.002
Benzene	0.001	0.0006	<0.020	0.48	0.31	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.002
Toluene	0.001	0.0008	<0.020	0.017	<0.0005	<0.0005	<0.0005	0.002	0.0018	<0.002	<0.002
Ethylbenzene	<0.0005	<0.0005	<0.020	0.23	0.14	<0.0005	<0.0005	0.001	<0.0005	<0.002	<0.002
Xylenes	<0.0005	<0.0005	<0.020	0.3	0.18	<0.0005	<0.0005	0.004	0.0031	<0.002	<0.002
TPH-Gasoline	0.057	0.053	---	4.2	4	0.087	<0.050	0.41	0.64	---	---
TPH-Diesel	1.3	26	---	10.54	16	3.018	---	0.201	---	---	---
TPH-418.1	6	12	---	2	25	1.2	---	<1	---	---	---
Naphthalene	nd	---	---	0.03	---	nd	---	nd	---	---	---
2-Methylnaphthalene	nd	---	---	0.018	---	nd	---	nd	---	---	---

Well / Sampling Date / Sampler	[redacted]	[redacted]	MW-6 10-28-92 ROUX	MW-6 11-3-92 DOF	MW-6 11-5-92 DOF
Constituent					
Tetrachloroethylene	nd	<0.002	4.5	0.69	1.1
Total 1,2-Dichloroethene	---	<0.002	---	0.52	0.83
Trichloroethene	nd	<0.002	0.92	0.16	0.27
Vinyl Chloride	nd	<0.002	0.24	<0.040	0.068
Benzene	<0.0005	<0.002	<0.0005	<0.040	<0.040
Toluene	0.001	<0.002	0.002	<0.040	<0.040
Ethylbenzene	<0.0005	<0.002	<0.0005	<0.040	<0.040
Xylenes	<0.0005	<0.002	0.002	<0.040	<0.040
TPH-Gasoline	0.093	---	<0.05	---	---
TPH-Diesel	0.086	---	<0.05	---	---
TPH-418.1	<1	---	<1	---	---
Naphthalene	nd	---	nd	---	---
2-Methylnaphthalene	nd	---	nd	---	---

Meth B mg/L

Notes:
All units in mg/l or ppm
0.0008 (B) nd = not detected
0.0005 (B) --- = not analyzed
0.005 (A)
0.00002 (B) 0.0002 (A) See Table 3 for summary of analytical methods

Table 3 - Summary of Analytical Methods

	Sampler	Laboratory	EPA 8020	EPA 8240	EPA 8015	EPA 8270	NWTPH-G	NWTPH-Dx	NWTPH-418M
MW-1									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	x	—	x	x	x
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-2									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	x	x
MW-3									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	—	—
MW-4									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	—	—
11-3-92	DOF	NCA	—	x(a)	—	—	—	—	—
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-5									
10-28-92	ROUX	NET	x	x	—	x	x	x	x
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-6									
10-28-92	ROUX	NET	x	x	—	x	x	x	x
11-3-92	DOF	NCA	—	x(a)	—	—	—	—	—
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—

Notes: ROUX Associates, Inc. - Concord, CA
DOF - Dalton, Olmsted & Fuglevand, Inc. - Bothell, WA
NET - National Environmental Testing, Inc. - Portland, OR
NCA - North Creek Analytical, Inc. - Bothell, WA
x = Sampled Analyzed for Indicated Method
(a) - Combined Methods EPA 8240/8260
— = Sampled Not Analyzed for Indicated Method

NET NATIONAL ENVIRONMENTAL TESTING, INC.

Portland Division
17400 SW Upper Boones Ferry Rd.
Suite 8280
Portland, OR 97224
Tel: (503) 624-5449
Fax: (503) 639-6889

Todd Ramsden
Roux Associates, Inc.
1655 Gateway Bl., Ste. 770
Concord, CA 94520

Project: 26203W02
Location: Cintas
NET #: 92.247909

Dear Todd,

Enclosed are the results I have for the Cintas project. The results are finales for all analytical parameters except for EPA 8270. Our semivolitiles GC/MS crashed during this run and only the quantitation report for sample MW-2 is valid. NET with assistance of Hewlett Packard are trying to fix the system failure. I am express shipping the half of each 8270 extract to another NET laboratory for analysis. I will give you data as soon as I it is available. I expect data will be in late thursday the 29th.

Sincerely,

Kent Patton
Portland Division Manager

Brad Hall
Roux Associates, Inc.
1855 Gateway Bl., Ste. 770
Concord, CA 94520

Date: 10/28/1992
NET Client Acct. No: 54450
NET Pacific Job No: 92.24709
Received: 10/25/1992

Project: 26203W02
Location: Cintas

Dear Mr. Brad Hall:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Kent Patton
Portland Division Manager

Enclosure(s)

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Data: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Received: 10/25/1992
Extracted: 10/25/1992

METHOD: EPA 418.1 (W)
Reporting Limit: 1 mg/L

Sample Number	Sample ID	EPA 418.1 (W) Test Results	Units	Dilution Factor	Date Analyzed	Date Sampled
13010	MW-1	6	mg/L	1	10/26/1992	10/24/1992
13011	MW-2	2.0	mg/L	1	10/26/1992	10/24/1992
13012	MW-3	1.2	mg/L	1	10/26/1992	10/24/1992
13013	MW-4	ND	mg/L	1	10/26/1992	10/24/1992

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203U02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13910	13911	13912	13913
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
BTEX (U)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	1
Benzene	8020	0.5	ug/L	1	430	ND	ND
Toluene	8020	0.5	ug/L	1	17	ND	2
Ethylbenzene	8020	0.5	ug/L	ND	230	ND	1
Xylenes	8020	0.5	ug/L	ND	500	ND	4
Surrogate Recovery							
aaa-Trifluorotoluene	8020	-	%	99	101	99	97

Roux Associates, Inc.
Concord, CA 94520

NET Logs: 92.24709
Date: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8015M TPH-GAS (W)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	1
TPH-Gas	8015M	50	ug/L	57	4,200	87	610
Surrogate Recovery							
a,a,a-Trifluorotoluene	8015M	-	%	99	101	99	97

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26200402
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8015M TPH-Diesel (LV)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		10	10	1	1
Diesel	8015M	50	ug/L	1,345	10,540	3,019	291
Surrogate Recovery							
o-Terphenyl	8015M	-	%	62	M.I.	73	61

M.I.= Matrix Interference

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26209M2
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8240 VOL/PURGEABLES (W) PREP		-		-	-	-	-
8240 VOLATILES/PURGEABLES							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	10
Acetone	8240	10	ug/L	ND	ND	ND	ND
Benzene	8240	5	ug/L	ND	684	ND	ND
Bromodichloromethane	8240	5	ug/L	ND	ND	ND	ND
Bromoform	8240	5	ug/L	ND	ND	ND	ND
Bromomethane	8240	5	ug/L	ND	ND	ND	ND
2-Butanone	8240	10	ug/L	ND	ND	ND	ND
Carbon disulfide	8240	5	ug/L	ND	ND	ND	ND
Carbon tetrachloride	8240	5	ug/L	ND	ND	ND	ND
Chlorobenzene	8240	5	ug/L	ND	ND	ND	ND
Chloroethane	8240	5	ug/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	8240	10	ug/L	ND	ND	ND	ND
Chloroform	8240	5	ug/L	ND	ND	ND	ND
Chloromethane	8240	5	ug/L	ND	ND	ND	ND
Dibromochloromethane	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichlorobenzene	8240	6	ug/L	ND	ND	ND	ND
1,3-Dichlorobenzene	8240	6	ug/L	ND	ND	ND	ND
1,4-Dichlorobenzene	8240	6	ug/L	ND	ND	ND	ND
1,1-Dichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,1-Dichloroethene	8240	5	ug/L	ND	ND	ND	ND
trans-1,2-Dichloroethene	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichloropropane	8240	5	ug/L	ND	ND	ND	ND
cis-1,3-Dichloropropene	8240	5	ug/L	ND	ND	ND	ND
trans-1,3-Dichloropropene	8240	5	ug/L	ND	ND	ND	ND
Ethylbenzene	8240	5	ug/L	ND	301	ND	ND
2-Hexanone	8240	10	ug/L	ND	ND	ND	ND

Roux Associates, Inc.
Concord, CA 94520

NET Logs: 92.24709
Date: 10/28/1992

Project: 26203002
Location: Clinton
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
Methylene chloride	8240	5	ug/L	ND	ND	ND	ND
4-Methyl-2-pentanone	8240	10	ug/L	ND	ND	ND	ND
Styrene	8240	5	ug/L	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	8240	5	ug/L	ND	ND	ND	ND
Tetrachloroethene	8240	5	ug/L	ND	ND	ND	876
Toluene	8240	5	ug/L	ND	15	ND	ND
1,1,1-Trichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,1,2-Trichloroethane	8240	5	ug/L	ND	ND	ND	ND
Trichloroethene	8240	5	ug/L	ND	ND	ND	44
Trichlorofluoromethane	8240	5	ug/L	ND	ND	ND	ND
Vinyl acetate	8240	10	ug/L	ND	ND	ND	ND
Vinyl chloride	8240	5	ug/L	100	ND	ND	ND
Xylenes, total	8240	5	ug/L	ND	403	ND	ND
Surrogate Recovery							
Toluene-d8	8240	-	%	97	99	97	98
Bromofluorobenzene	8240	-	%	93	95	97	92
1,2-Dichloroethane-d4	8240	-	%	87	87	90	91

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number: 13011
Sample Description: MW-2
Date Sampled: 10/24/1992

Parameter	Method	Report Limit	Units	Results
BNA - 8270 AQUEOUS				
Date Analyzed		-		10/25/92
Acenaphthene	8270	10	ug/L	ND
Acenaphthylene	8270	10	ug/L	ND
Anthracene	8270	10	ug/L	ND
Benzidine	8270	50	ug/L	ND
Benz(a)anthracene	8270	10	ug/L	ND
Benzo(b)fluoranthene	8270	10	ug/L	ND
Benzo(k)fluoranthene	8270	10	ug/L	ND
Benzo(a)pyrene	8270	10	ug/L	ND
Benzo(ghi)perylene	8270	10	ug/L	ND
Benzyl butyl phthalate	8270	10	ug/L	ND
Bis(2-chloroethyl)ether	8270	10	ug/L	ND
Bis(2-chloroethoxy)meth.	8270	10	ug/L	ND
Bis(2-ethylhexyl)phthal.	8270	10	ug/L	ND
Bis(2chloroisopropyl)eth.	8270	10	ug/L	ND
4-Bromophenyl phenyl eth.	8270	10	ug/L	ND
2-Chloronaphthalene	8270	10	ug/L	ND
4-Chlorophenylphenyl eth.	8270	10	ug/L	ND
Chrysene	8270	10	ug/L	ND
Dibenzo(a,h)anthracene	8270	10	ug/L	ND
Di-n-butylphthalate	8270	10	ug/L	ND
1,3-Dichlorobenzene	8270	10	ug/L	ND
1,2-Dichlorobenzene	8270	10	ug/L	ND
1,4-Dichlorobenzene	8270	10	ug/L	ND
3,3-Dichlorobenzidine	8270	20	ug/L	ND
Diethyl phthalate	8270	10	ug/L	ND
1,2-Diphenylhydrazine	8270	10	ug/L	ND
Dimethyl phthalate	8270	10	ug/L	ND
2,4-Dinitrotoluene	8270	10	ug/L	ND
2,6-Dinitrotoluene	8270	10	ug/L	ND

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203402
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number: 13811
Sample Description: MW-2
Date Sampled: 10/24/1992

Parameter	Method	Report Limit	Units	Results
Di-n-octylphthalate	8270	10	ug/L	ND
Fluoranthene	8270	10	ug/L	ND
Fluorene	8270	10	ug/L	ND
Hexachlorobenzene	8270	10	ug/L	ND
Hexachloro-1,3-butadiene	8270	10	ug/L	ND
Hexachlorocyclopentadiene	8270	25	ug/L	ND
Hexachloroethane	8270	10	ug/L	ND
Indeno(1,2,3-cd)pyrene	8270	10	ug/L	ND
Isophorone	8270	10	ug/L	ND
Naphthalene	8270	10	ug/L	51
Nitrobenzene	8270	10	ug/L	ND
N-Nitrosodimethylamine	8270	10	ug/L	ND
N-Nitrosodiphenylamine	8270	10	ug/L	ND
N-Nitrosodi-n-propylamine	8270	10	ug/L	ND
Phenanthrene	8270	5	ug/L	6
Pyrene	8270	10	ug/L	ND
1,2,4-Trichlorobenzene	8270	10	ug/L	ND
4-Chloro-3-methylphenol	8270	10	ug/L	ND
2-chlorophenol	8270	10	ug/L	ND
2,4-Dichlorophenol	8270	10	ug/L	ND
2,4-Dimethylphenol	8270	10	ug/L	ND
2,4-Dinitrophenol	8270	50	ug/L	ND
2-Methyl-4,6-dinitrophen.	8270	50	ug/L	ND
2-Nitrophenol	8270	10	ug/L	ND
4-Nitrophenol	8270	50	ug/L	ND
Pentachlorophenol	8270	50	ug/L	ND
Phenol	8270	10	ug/L	ND
2,4,6-Trichlorophenol	8270	10	ug/L	ND
Surrogate Recovery				
Nitrobenzene-d5	8270	-	%	101
2-Fluorobiphenyl	8270	-	%	66
Terphenyl-d14	8270	-	%	84
Phenol-d6	8270	-	%	39
2-Fluorophenol	8270	-	%	65
Tribromophenol	8270	-	%	98

PRELIMINARY REPORT

TABLE 1: Summary of Ground Water Analyses: Petroleum Hydrocarbons
Marpatt Industries, 773 Valley Street, Seattle, Washington

Sample Designation	Date	TPH-G	TPH-D	BTEX Distinction				O&G
				Benzene	Toluene	Ethylbenzene	Xylenes	
MW1	10/24/92	57	1,345	1	1	ND	ND	6,000
MW2	10/24/92	4,200	10,540	480	17	230	300	2,000
MW3	10/24/92	87	3,015	ND	ND	ND	ND	1,200
MW4	10/24/92	410	201	ND	2	1	4	ND
MW5	10/28/92	93	86	ND	1	ND	ND	ND
MW6	10/28/92	ND	ND	ND	2	ND	2	ND

DRAFT

1, 2, 3 Gasoline
1, 2, 3, 5 Diesel
1, 2, 3, 5

FOOTNOTES
All concentrations reported in ug/kg (ppb)
TPH-G = Total Petroleum Hydrocarbons As Gasoline (Washington Modified USEPA Method 8015)
TPH-D = Total Petroleum Hydrocarbons As Diesel (Washington Modified USEPA Method 8015)
O&G = Heavy Petroleum Oil (Washington Modified USEPA Method 418.1)
BTEX Distinction (USEPA Method 8020)
ND = Not detected (for detection limits see laboratory reports, Appendix B).

NET

TABLE 2: Summary of Ground Water Analyses: Volatile and Semi-volatile Organic Compounds
Maryatt Industries, 773 Valley Street, Seattle, Washington

Sample Designation	Date	VOCs			S-VOCs	
		VCl	PCE	TCE	2-Meth	Naph
MW1	10/24/92	100	3	ND	ND	ND
MW2	10/24/92	ND	ND	ND	18	30
MW3	10/24/92	ND	ND	ND	ND	ND
MW4	10/24/92	ND	814	69	ND	ND
MW5	10/28/92	ND	ND	ND	ND	ND
MW6	10/28/92	240	4,500	920	ND	ND

DRAFT

FOOTNOTES

All concentrations reported in ug/kg (ppb)
VOCs = Volatile Organic Compounds (USEPA Method 8240)
VCl = Vinyl Chloride
PCE = Tetrachloroethene
TCE = Trichloroethene
S-VOCs = Semi-volatile Organic Compounds (USEPA Method 8270)
2-Meth = 2-Methylnaphthalene
Naph = Naphthalene
All VOCs and S-VOCs below detection limits except those listed in the table
ND = Not detected (for detection limits see laboratory reports, Appendix B).

Table 3: Water Level Measurements
Maryat: Industries, 773 Valley Street, Seattle, Washington

Well Number	Date Measured	Measuring Point Elevation (1)	Depth to Water (feet)	Water Level Elevation (1)
MW1	10/23/92	28.11	7.11	21.00
	10/24/92	28.11	7.15	20.96
	10/27/92	28.11	7.36	20.75
	10/28/92	28.11	7.38	20.73
MW2	10/23/92	30.86	10.00	20.86
	10/24/92	30.86	10.04	20.82
	10/27/92	30.86	10.13	20.73
	10/28/92	30.86	10.15	20.71
MW3	10/23/92	32.04	11.25	20.79
	10/24/92	32.04	11.29	20.75
	10/27/92	32.04	11.39	20.65
	10/28/92	32.04	11.41	20.63
MW4	10/24/92	40.94	21.99	18.95
	10/27/92	40.94	21.93	19.01
	10/28/92	40.94	21.93	19.01
MW5	10/28/92	47.20	22.89	24.31
MW6	10/25/92	35.39	17.85	17.54

FOOTNOTES
(1) = Elevation in feet relative to mean sea level.

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW1
Date Started: 10/22/92 Completed: 10/22/92	Measuring Point Elevation (ft): 28.11 Total Depth (ft): 16.5
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 8.3 Stabilized (ft): 7.4
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 14 ft to 4 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 15 ft to 3.5 ft
Sampler: Split Spoon	Seal: Bentonite from 3.5 ft to 1.5 ft
	Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL 50% sand and silt 50% bricks, concrete blocks, railroad spikes, etc. Dark black, wet clay. Tarry appearance, no odor.				7 10 10	0	75	
10	Sandy SILT Red and black, fine grained sand, 15% fine gravel, very wet, no odor (Fill?)	SM			8 16 12		55	
15	SAND Grey-green, medium to coarse grained, 10% fine gravel, 15% clay mostly well rounded, saturated. SAND Medium to coarse, metallic gold colored biotite. Possible oily sheen on soil.	SW			23 28 34			
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW2
Date Started: 10/22/92 Completed: 10/22/92	Measuring Point Elevation (ft): 30.86 Total Depth (ft): 15.0
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 10.6 Stabilized (ft): 10.2
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 15 ft to 5 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 15 ft to 4 ft
Sampler: Split Spoon	Seal: Bentonite from 4 ft to 1.5 ft
	Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Clay, sand, brick, concrete blocks.							
	SILT Medium greenish-tan, abundant orange mottling, moist, cohesive, no odor, <10% wood fragments.				4 5 8		95	
10	Sandy SILT Medium green to brown, very moist, cohesive, moderate hydrocarbon odor. (Fill?)	SM			4 6 8		70	
15	Silty SAND Mottled orange-brown and dark green, medium grained, saturated, weak hydrocarbon odor. (Fill?)						30	
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW3
Date Started: 10/22/92 Completed: 10/22/92	Measuring Point Elevation (ft): 32.04 Total Depth (ft): 17.0
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 12.0 Stabilized (ft): 11.4
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 17 ft to 7 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 17 ft to 6 ft
Sampler: Split Spoon	Seal: Bentonite from 6 ft to 1.5 ft
	Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	Silty Sand Fill Light green-brown, moist, slightly cohesive, no odor.							
	Sandy Silt Fill Dark brown to green, very moist, cohesive, no odor.				10 14 10		30	
10	Silty Sand Fill Tan, fine to medium grained, <10% fine gravel, moist, cohesive, no odor				4 8 10		95	
15	Silt and Sand Fill Medium brown to black, broken glass fragments, some gravel, wet, cohesive, very weak hydrocarbon odor.				8 10 21		70	
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW4
Date Started: 10/23/92 Completed: 10/23/92	Measuring Point Elevation (ft): 40.94 Total Depth (ft): 36.5
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 26.0 Stabilized (ft): 21.9
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 30 ft to 15 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 30.5 ft to 12.5 ft
Sampler: Split Spoon	Seal: Bentonite from 12.5 ft to 2 ft
	Cement from 2 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Brown silt, sand, gravel with large concrete blocks near surface.				44 50/2"		75	
0		SM			50/2"		0	
-5	Silty SAND Brown, 10% gravel up 1", moist, slightly loose, no odor.				20 50/4"	0	100	
-10	Silty SAND Dark brown, 5-10% gravel, very moist, cohesive, no odo				25/2"		0	
-25	Sandy SILT Brown, <10% fine gravel, no odor, moist, cohesive.	ML			50/4"		100	
-30	Sandy SILT Gray-green, <5% fine gravel, very moist, hard, no odor.				50/6"		100	
-35	Silty SAND Greenish grey, medium coarse grained, <10% gravel up to 2", saturated no odor	SP			58 43 50/4"		100	

DRAFT

Project: 26203W02 Roux Associates

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW5

Date Started: 10/27/92	Completed: 10/27/92	Measuring Point Elevation (ft): 47.20	Total Depth (ft): 35.5
Logged By: B. Hall	Checked By: TR	Water Level During Drilling (ft): 26.0	Stabilized (ft): 22.9
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule 40 PVC	Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger		Perforation: 0.010 Slot	from 30 ft to 15 ft
Drilling Equipment: Mobile B-56		Pack: 10-20 Sand	from 30 ft to 13 ft
Sampler: Split Spoon		Seal: Bentonite	from 13 ft to 1 ft
		Cement	from 1 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	Fill: Medium brown, 50% gravel, 30% silt, 20% sand, damp, no odor.				5 6 6	0	70	
10	As above, moist, no odor.				4 5 6	0	80	
15	Sandy Gravel: Grey, moist, 50% gravel, 40% coarse sand, 10% silt, no odor.	GW			2 6 7	0	70	DRAFT
20	Silty SAND: Grey-brown, 60% fine sand, 40% silt, hard packed, dry, no odor.	SM			22 10 14	0	80	
25	Silty sandy GRAVEL: Dark grey, 60% gravel, 20% sand, 20% silt, moist, no odor.	GW			26 40	0	25	
30	As above, medium brown, wet, no odor.				20 27 18	0	70	
35								

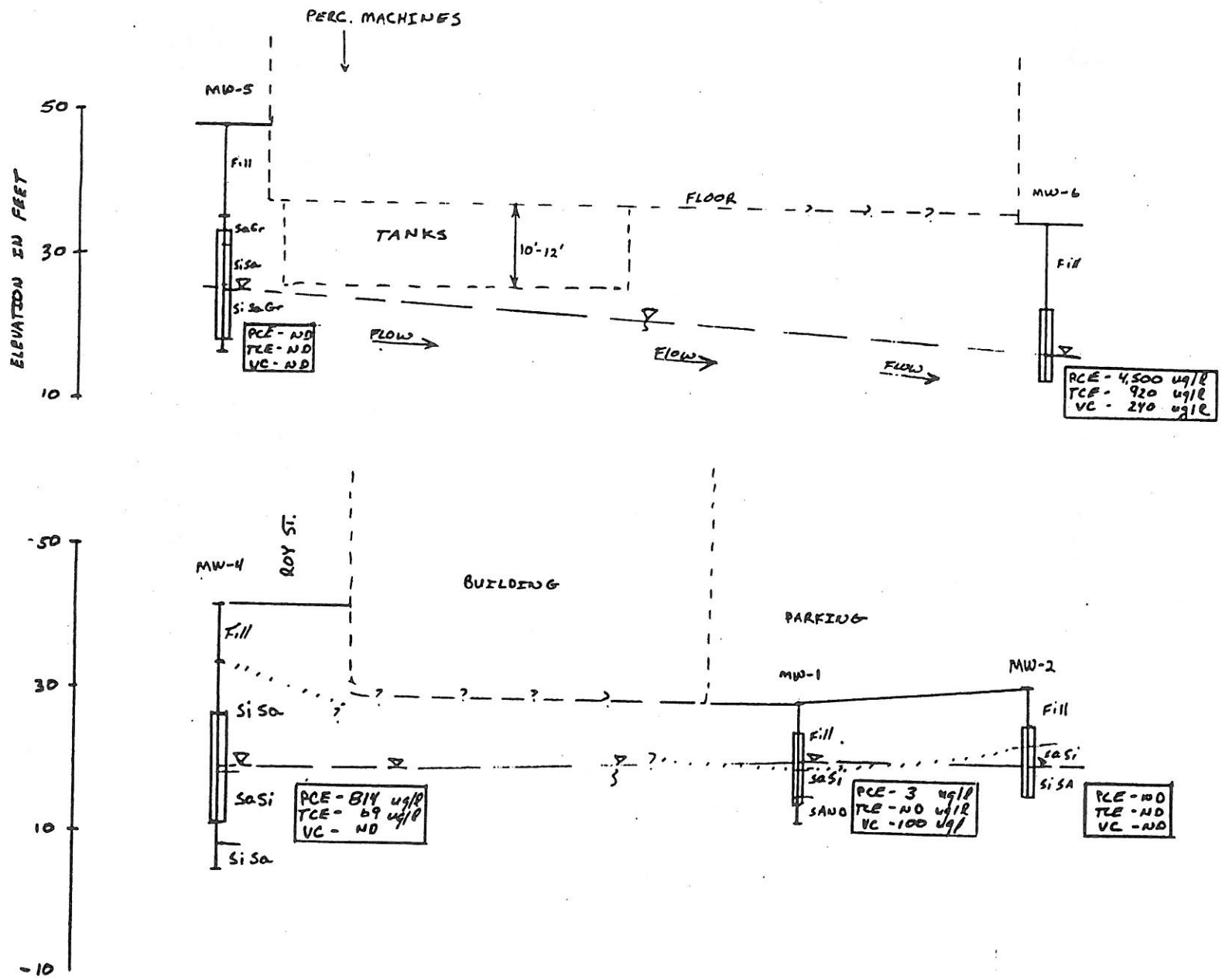
Project: 26203W02 Roux Associates Page 1 of 1

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW6
Date Started: 10/27/92 Completed: 10/27/92	Measuring Point Elevation (ft): 35.39 Total Depth (ft): 22.0
Logged By: B. Hall Checked By: TR	Water Level During Drilling (ft): 17.0 Stabilized (ft): 17.8
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 22 ft to 12 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 22 ft to 10 ft
Sampler: Split Spoon	Seal: Bentonite from 10 ft to 2 ft
	Cement from 2 ft to 0 ft

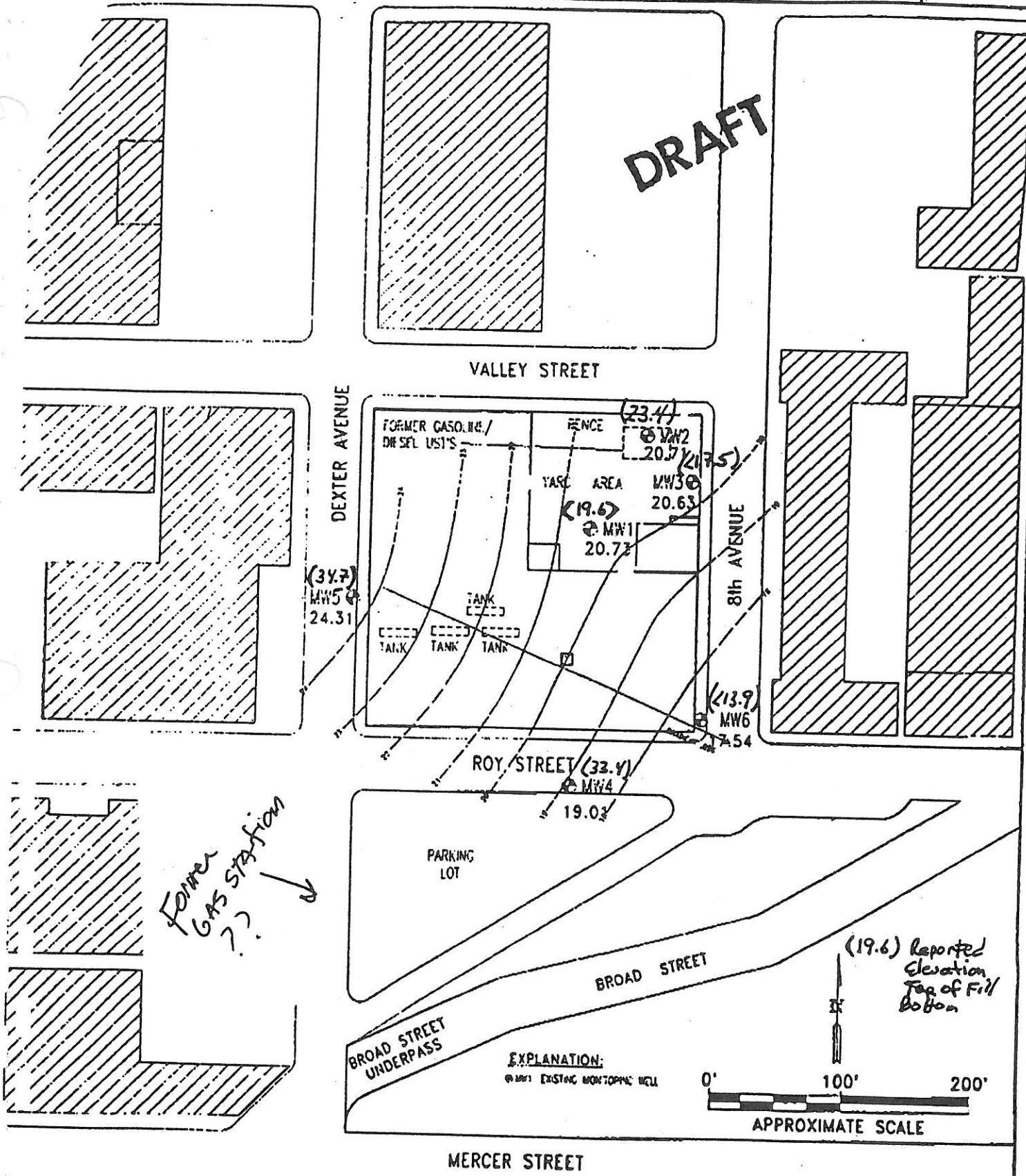
Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Medium brown, 50% gravel, 30% sand, 20% silt, brick fragments, damp, no odor.				11 11 13	0	50	
10	As above, abundant brick fragments.				22 24 18	0	50	
15	As above, grey, moist, no odor.				20 8 8	0	50	
20	As above, wet, no odor.				12 12 18	0	50	
25								
30								
35								

DRAFT

Project: 26203W02 Roux Associates Page 1 of 1

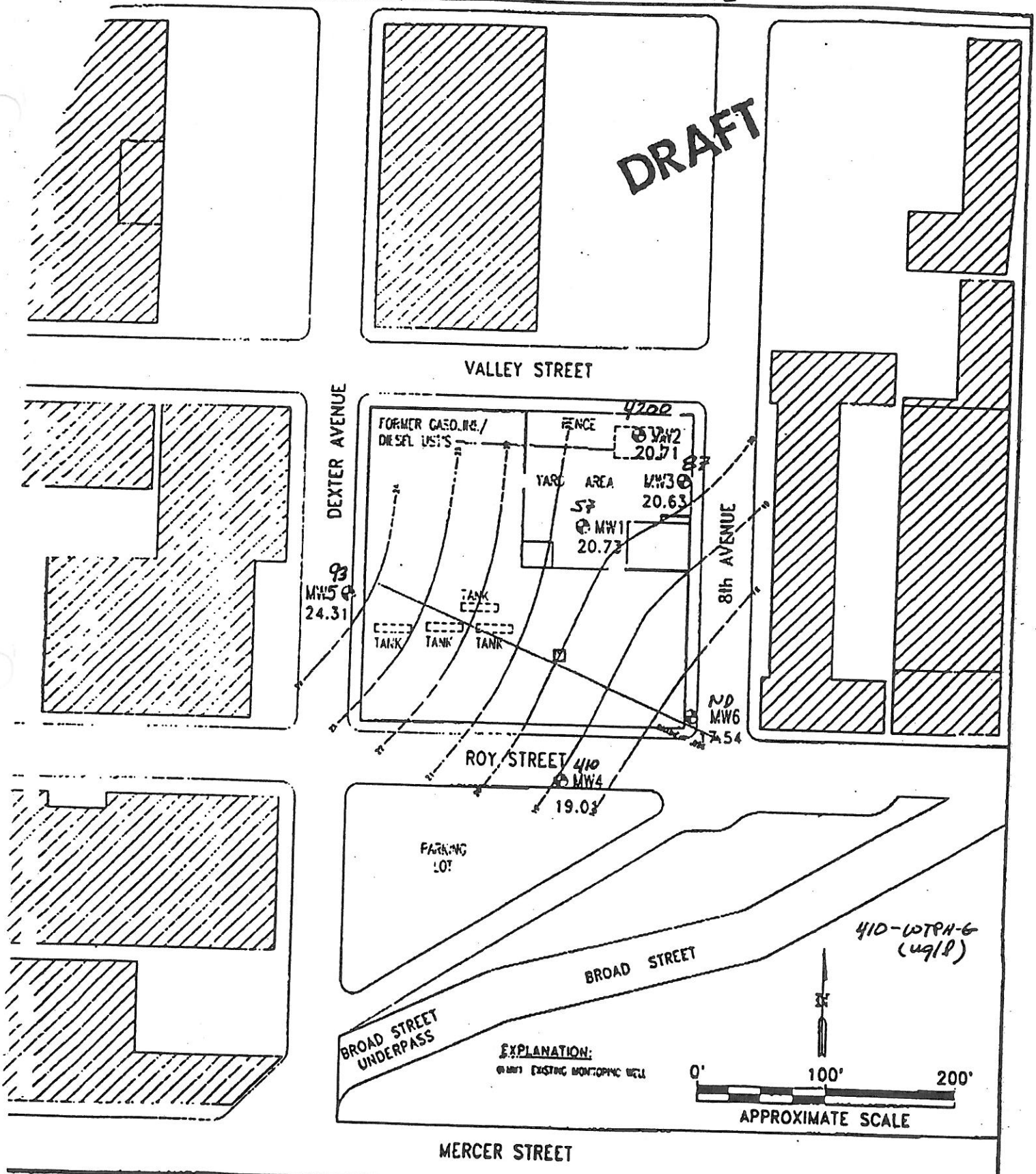

PERC. MACHINES
MW-5
MW-6
FILL
SaGr
Si Sa
Si SaGr
TANKS
10'-12'
FLOOR
FILL
PCE - ND
TCE - ND
VC - ND
FLOW
FLOW
FLOW
PCE - 4,500 ug/l
TCE - 920 ug/l
VC - 240 ug/l
ELEVATION IN FEET
50
30
10
MW-4
ROY ST.
BUILDING
PARKING
MW-1
MW-2
FILL
Si Sa
SaSi
Si Sa
PCE - 814 ug/l
TCE - 69 ug/l
VC - ND
FILL
SaSi
SAND
PCE - 3 ug/l
TCE - ND ug/l
VC - 100 ug/l
FILL
SaSi
Si SA
PCE - ND
TCE - ND
VC - ND
50
30
10
-10

ELEVATION BOTTOM OF FILL



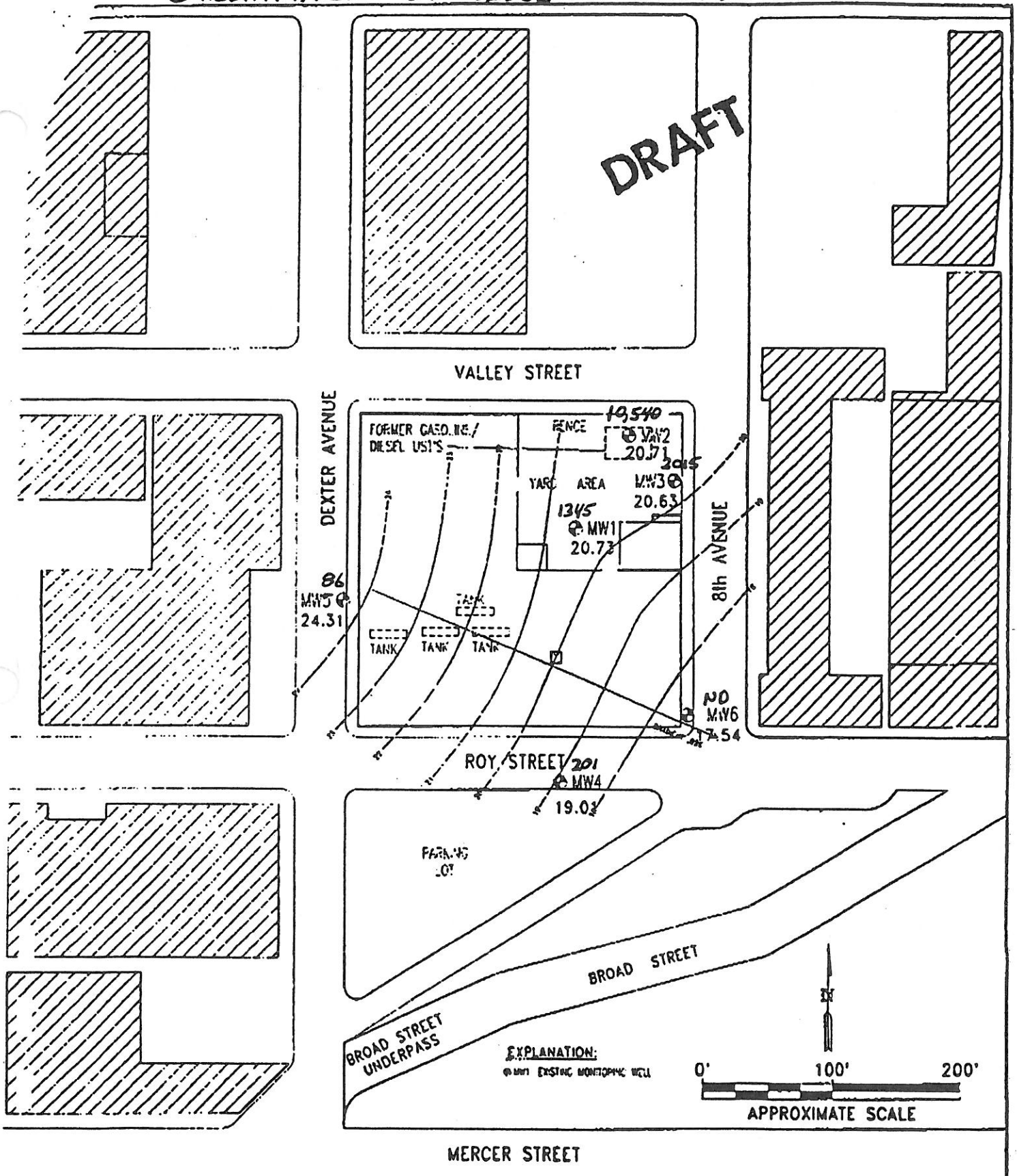
KOUX ASSOCIATES	COMPILED BY: B.H.	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE
	PREPARED BY: R P		
	PROJECT MNGR. B.H.	TITLE	
	DATE: 11/92	MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	1
	SCALE: AS SHOWN		
	PROJECT NO. 2620.W02		
	FILE NAME. MARYSITB		

CONCENTRATION GASOLINE CONSTITUENTS



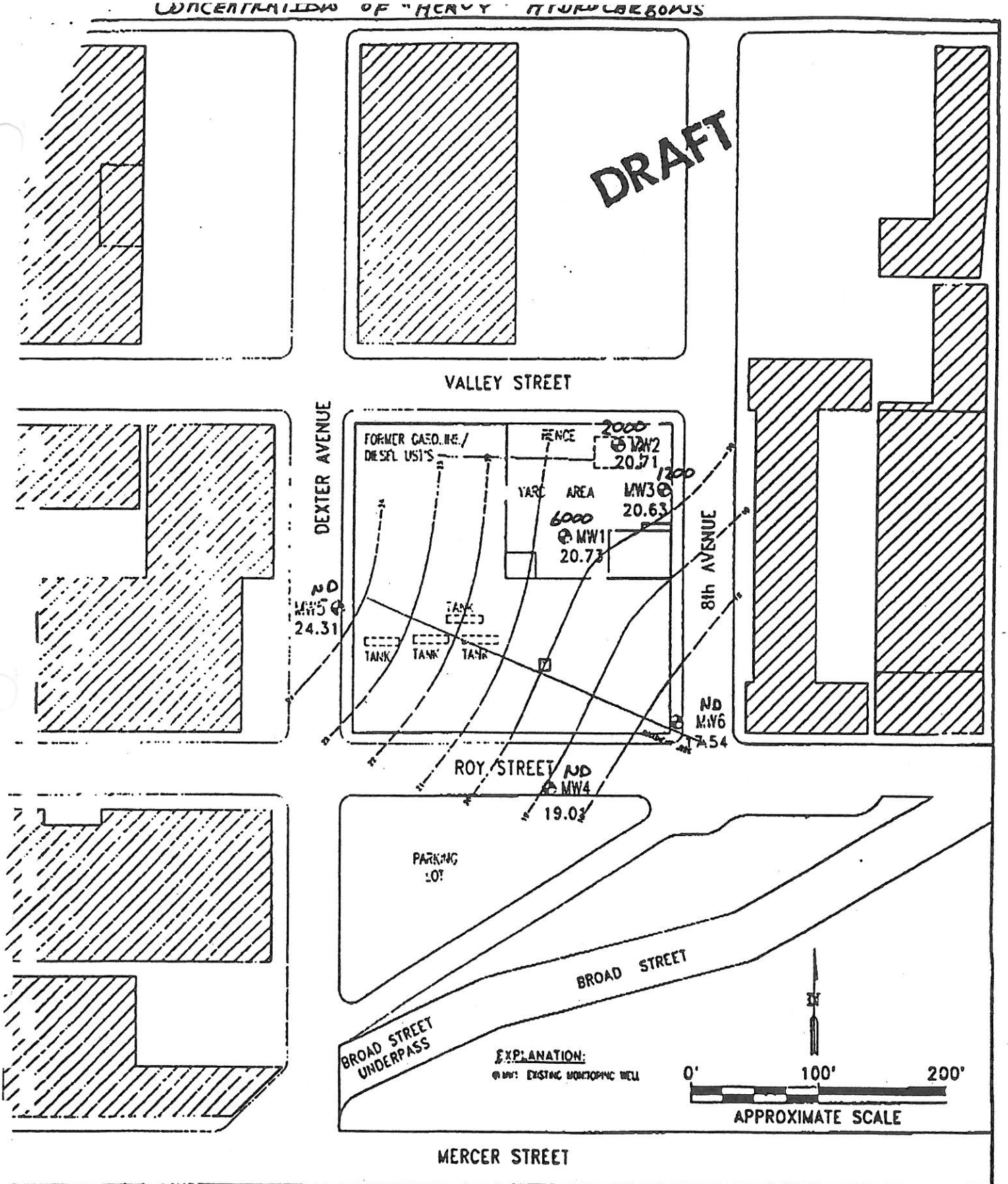
OUX ASSOCIATES ENVIRONMENTAL CONSULTING MANAGEMENT	COMPILED BY: B.H. PREPARED BY: R P PROJECT MNGR. B.H. DATE: 11/92 SCALE: AS SHOWN PROJECT NO. 2620.W02 FILE NAME. MARYSIT8	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE 1
		TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	

CONCENTRATION OF DIESEL CONSTITUENTS



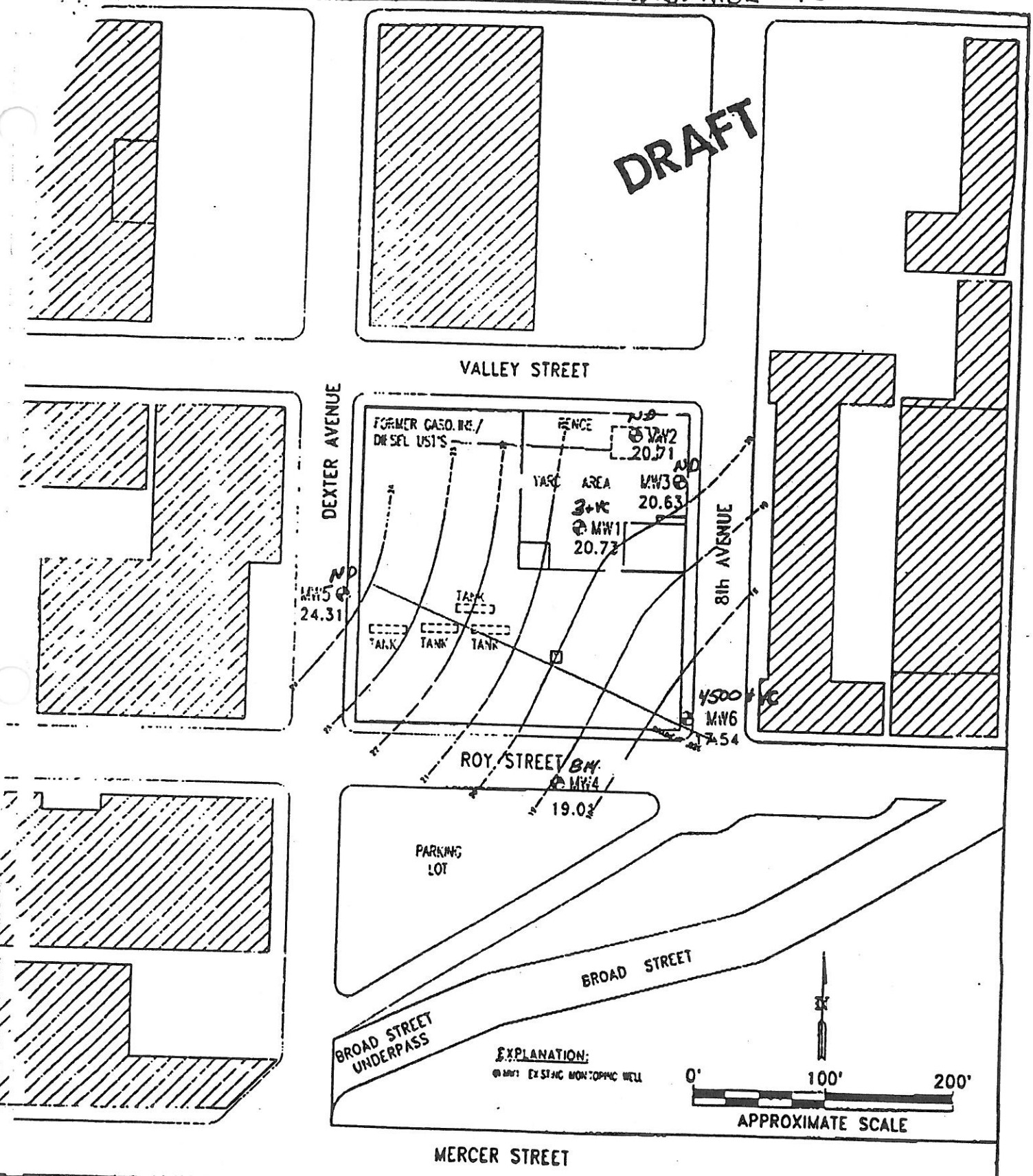
ROUX ASSOCIATES	COMPILED BY: B.H.	PREPARED FOR: CINTAS CORPORATION, CINCINNATI, OHIO	FIGURE 1
	PREPARED BY: R P		
	PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES, 773 VALLEY STREET, SEATTLE, WA.	
	DATE: 11/92		
	SCALE: AS SHOWN		
	PROJECT NO. 2620.WD2		
	FILE NAME. MARYSIT8		

CONCENTRATIONS OF "HEAVY" HYDROCARBONS



OUX ASSOCIATES ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: B.H.	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE 1
	PREPARED BY: K P		
	PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	
	DATE: 11/92		
	SCALE: AS SHOWN		
	PROJECT NO. 26203W02		
	FILE NAME. MARYSITB		

. SOLUBLE CONTAMINANTS IN GROUNDWATER - ICE



COMPILED BY: B.M.	PREPARED FOR: CINTAS CORPORATION, CINCINNATI, OHIO		FIGURE
PREPARED BY: R P			
PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES, 773 VALLEY STREET, SEATTLE, WA.		1
DATE: 11/92			
SCALE: AS SHOWN			
PROJECT NO. 2620.3W02			
FILE NAME. MARYSITB			

DUX ASSOCIATES
ENVIRONMENTAL CONSULTING & MANAGEMENT

Dalton, Olmsted & Fuglevand, Inc. *Environmental Consultants*

1[illegible]20th Avenue N.E., Suite 107 • Bothell, Washington 98011
Te[illegible]one (206) 486-7905 (FAX 486-7651)

FAX MEMORANDUM(7 pages)

TO: Chuck Maryatt

FROM: Matthew Dalton

DATE: October 29, 1992

SUBJECT: Analytical Results - Ground-Water Samples
Maryatt Ind. - Seattle Facility

REF. NO: HEW-016

cc: R. Palumbo

Here are the laboratory data sheets for the ground-water samples we split with ROUX. Overall the results appear similar to those reported by ROUX, although a few more organic components (including tetrachloroethene) were detected in the sample from MW-1.

Please call if you have any questions.

Matt

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2529
Phone (206) 481-0200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-0116-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-G,EPA 5030/8020	Analyzed:	Oct 26, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Reported:	Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS with BTEX DISTINCTION (WTPH-G/BTEX)

Sample Number	Sample Description	Volatile Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)	Surrogate Recovery %
210-1179	MW-1	53	0.61	0.83	N.D.	N.D.	82
210-1180	MW-2	4,000	310	N.D.	140	160	9
210-1181	MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	80
210-1182	MW-4	640	N.D.	1.8	N.D.	3.1	101
BLK:02692	Method Blank	N.D.	N.D.	N.D.	N.D.	N.D.	86
Detection Limits:		50	0.50	0.50	0.50	1.0	

Volatile Hydrocarbons are quantitated as Gasoline Range Organics (nC7 - nC12). Surrogate recovery reported is for Bromofluorobenzene.
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberly Stark
Project Manager

Please Note:
The detection limit for Toluene in #210-1180 = 6.0 µg/L

2101179.DOF <1>

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-D	Extracted:	Oct 27, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Analyzed:	Oct 28, 1992
			Reported:	Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS (WTPH-D)

Sample Number	Sample Description	Extractable Hydrocarbons mg/L (ppm)	Surrogate Recovery %
210-1179	MW-1	26 D-2	106
210-1180	MW-2	16 D-3	82
BLK102792	Method Blank	N.D.	65

Detection Limits:	0.25

Extractable Hydrocarbons are quantitated as Diesel Range Organics (nC12 - nC24). Surrogate recovery reported is for 2-Fluorobiphenyl.
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

HYDROCARBON ANALYSES FOOTNOTES

(8/92)

Code	Description

VOLATILE HYDROCARBONS - Gasoline Range Organics

G 1 This sample appears to contain extractable diesel range organics.

G 2 The chromatogram for this sample is not a typical gasoline fingerprint.

G 3 The total hydrocarbon result in this sample is primarily due to a peak(s) eluting in the volatile hydrocarbon range. Identification and quantitation by EPA 8010, 8021 or 8240

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-D	Extracted:	Oct 27, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Analyzed:	Oct 28, 1992
			Reported:	Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS (WTPH-D)

Sample Number	Sample Description	Extractable Hydrocarbons mg/L (ppm)	Surrogate Recovery %
210-1179	MW-1	26 D-2	106
210-1180	MW-2	16 D-3	82
BLK102792	Method Blank	N.D.	65

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID: Marysil Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript: Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method: WTPH-418.1	Extracted:	Oct 27, 1992
Attention: Matt Dalton	First Sample #: 210-1179	Analyzed:	Oct 28, 1992
		Reported:	Oct 28, 1992

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (WTPH-418.1)

Sample Number	Sample Description	Petroleum Oil mg/L (ppm)
210-1179	MW-1	12
210-1180	MW-2	25
BLK102792	Method Blank	N.D.

Detection Limits:	1.0

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

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

2101179.DOF <3>

OCT-[illegible]-1992 15:58 FROM DALTON-OLMSTED-FUGLEVAND TO [illegible] P.05

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-6200 - FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Sample Descript:	Water, MW-1	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	EPA 5030/8010	Analyzed:	Oct 27, 1992
Attention: Matt Dalton	Lab Number:	210-1179	Reported:	Oct 28, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	1.2
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	1.2
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	0.82
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	1.0

4-Bromofluorobenzene Surrogate Recovery, %: 102
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

NORTH CREEK ANALYTICAL

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Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00		
19017 120th Avenue NE, #107	Sample Descript:	Method Blank		
Bothell, WA 98011	Analysis Method:	EPA 5030/8010	Analyzed:	Oct 27, 1992
Attention: Matt Dalton	Lab Number:	BLK102792	Reported:	Oct 29, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
Total 1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 110
Analytes reported as N.D. were not present above the stated limit of detection.

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