

AP - 001

**ANNUAL
MONITORING REPORT**

YEAR(S):

1995 - MAY

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Environmental Bureau
Oil Conservation Division



Quarterly Report — May 1995

Appendix A — Appendix G

May 25, 1996

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Appendix A

5th Quarter Groundwater Monitoring Data Tabulated Results

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
(all results in ug/l)

Parameter	MW-3D	MW-3S	MW-5	MW-6D	MW-6S	MW-8	MW-8S	MW-9S	MW-11
PAHs									
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	65	ND	ND	50	ND	ND	ND
2-Methylnaphthalene	ND	ND	15	ND	ND	42	ND	ND	ND
Naphthalene	ND	ND	37	ND	ND	88	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
(all results in ug/l)

Parameter	MW-14	MW-15	MW-17	WP-1	WP-2	WP-3	WP-4	WP-5	WP-6
PAHs									
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND	36	ND	ND	48	24	160
2-Methylnaphthalene	ND	ND	33	ND	ND	39	39	27	200
Naphthalene	ND	ND	26	19	ND	14	73	290	
Phenanthrene	ND	ND	ND	ND	ND	28	ND	20	
Pyrene	ND	ND	ND	ND	ND	24	ND	35	

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
(all results in ug/l)

Parameter	WP-7	WP-8	WP-9	WP-15	WP-18	WP-19	WP-20	WP-22	WP-23
PAHs									
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	12	40	190	ND	52	75	180	22	ND
2-Methylnaphthalene	ND	59	250	ND	66	87	220	ND	ND
Naphthalene	ND	73	220	ND	60	120	220	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
(all results in ug/l)

Parameter	WP-24	WP-26d	WP-27d	WP-29	WP-30
PAHs					
Acenaphthene	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND
1-Methylnaphthalene	57	120	160	70	48
2-Methylnaphthalene	32	ND	120	110	12
Naphthalene	19	ND	ND	160	ND
Phenanthrene	ND	85	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
(all results in ug/l)

Parameter	MW-3D	DSMW-3D	MW-3S	MW-4	MW-5	MW-6D	MW-6S	DSMW-6D	MW-7
Phenols									
4-Chloro-3-methylphenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2-Chlorophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2,4-Dichlorophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2,4-Dimethylphenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2,4-Dinitrophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
4,6-Dinitro-2-methylphenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2-Nitrophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
4-Nitrophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
Pentachlorophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
Phenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
2,4,6-Trichlorophenol	ND	NS	ND	NS	ND	ND,NS	ND,ND	NS	NS
BTEX									
Benzene	ND	ND	220	4700	ND,ND	110,110	ND	100	
Toluene	ND	ND	ND	100	ND,ND	77	ND	ND	
Ethyl Benzene	ND	ND	6	70	ND,ND	32,31	ND	ND	
Xylenes	ND	ND	ND	280	ND,ND	43,44	ND	ND	

DSMW = Down Stream Monitor Well

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
 (all results in ug/l)

Parameter	MW-8	MW-9S	MW-11	USMW-12	MW-14	MW-15	MW-16	MW-17	WP-1
Phenols									
4-Chloro-3-methylphenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
2-Chlorophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
2,4-Dichlorophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
2,4-Dimethylphenol	87	ND	ND	NS	ND	ND	NS	ND	1200
2,4-Dinitrophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
2-Nitrophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
4-Nitrophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
Pentachlorophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
Phenol	ND	ND	ND	NS	28	ND	NS	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	NS	ND	ND	NS	ND	ND
BTEX									
Benzene	14000	ND	15	ND	1100	NS	ND	67	300
Toluene	ND	ND	ND	ND	ND	NS	ND	ND	14
Ethyl Benzene	ND	ND	ND	ND	25	NS	ND	ND	25
Xylenes	1100	ND	ND	ND	ND	NS	ND	ND	45

USMW = Up Stream Monitor Well

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
 (all results in ug/l)

Parameter	WP-2	WP-3	WP-4	WP-5	WP-6	WP-7	WP-8	WP-9	WP-15
Phenols									
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	3200	ND	37	ND	ND	ND	78	380	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	12	ND
BTEX									
Benzene	500	ND	ND	4500	17000E	5	5300	6500	ND
Toluene	320	ND	ND	ND	ND	ND	ND	200	ND
Ethyl Benzene	72	ND	ND	130	1400	ND	100	500	ND
Xylenes	110	ND	26	ND	160	ND	100	1400	ND

E = Indicates sample result is an estimate due to concentration exceeding calibration range of instrument.

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
5th Quarter (March 1995)
 (all results in ug/l)

Parameter	WP-18	WP-19	WP-20	WP-22	WP-23	WP-24	WP-26d	WP-27d	WP-29	WP-30
Phenols										
4-Chloro-3-methylphenol	ND	ND	ND	ND						
2-Chlorophenol	ND	ND	ND	ND						
2,4-Dichlorophenol	ND	ND	ND	ND						
2,4-Dimethylphenol	ND	28	ND	ND	ND	ND	55	6000	2200	ND
2,4-Dinitrophenol	ND	ND	ND	ND						
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND						
2-Nitrophenol	ND	ND	ND	ND						
4-Nitrophenol	ND	ND	ND	ND						
Pentachlorophenol	ND	ND	ND	ND						
Phenol	ND	78	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND						
BTEX										
Benzene	76	9400	1700	1800	0.9	160	20	950	1900	8.6
Toluene	ND	ND	ND	ND	ND	ND	30	ND	ND	ND
Ethyl Benzene	14	670	ND	88	ND	ND	250	95	ND	ND
Xylenes	8	380	ND	ND	ND	ND	16	370	210	0.8

MW-3D
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95
Phenols							
4-Chloro-3-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Chlorophenol	None	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	TP	NS	ND	ND	ND	ND	ND
2,4-Dimethylphenol	None	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	TP	NS	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Nitrophenol	None	NS	ND	ND	ND	ND	ND
4-Nitrophenol	None	NS	ND	ND	ND	ND	ND
Pentachlorophenol	TP	NS	ND	ND	ND	ND	ND
Phenol	5	NS	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	TP	NS	ND	ND	ND	ND	ND

/PHEN62701PHE8270WC2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		
NS = Not sampled					
NA = Not analyzed					
ND = Not detected					
TP = WQCC toxic pollutant					

MW-3S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/27/94	12/13/94	03/28/95
Phenols							
4-Chloro-3-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Chlorophenol	None	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	TP	NS	ND	ND	ND	ND	ND
2,4-Dimethylphenol	None	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	TP	NS	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Nitrophenol	None	NS	ND	ND	ND	ND	ND
4-Nitrophenol	None	NS	ND	ND	ND	ND	ND
Pentachlorophenol	TP	5	NS	ND	ND	ND	ND
Phenol			NS	ND	ND	ND	ND
2,4,6-Trichlorophenol	TP			ND			

/PHEN82/701PHB&70/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol		4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

MW-5
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	3/23/94	6/27/94	09/27/94	12/13/94	03/27/95
Phenols							
4-Chloro-3-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Chlorophenol	None	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	TP	NS	ND	ND	ND	ND	ND
2,4-Dimethylphenol	None	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	TP	NS	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Nitrophenol	None	NS	ND	ND	ND	ND	ND
4-Nitrophenol	None	NS	ND	ND	ND	ND	ND
Pentachlorophenol	TP	NS	ND	ND	ND	ND	ND
Phenol	5	NS	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	TP	NS	ND	ND	ND	ND	ND

/PHEN827/WIPHER827/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		
2,4,6-Trichlorophenol					

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

MW-6D
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/28/94	12/13/94	03/28/95
Phenols							
4-Chloro-3-methylphenol	None	NS	NA	ND	ND	ND	ND
2-Chlorophenol	None	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	TP	NS	ND	ND	ND	ND	ND
2,4-Dimethylphenol	None	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	TP	NS	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	NS	NA	ND	ND	ND	ND
2-Nitrophenol	None	NS	ND	ND	ND	ND	ND
4-Nitrophenol	None	NS	ND	ND	ND	ND	ND
Pentachlorophenol	TP	NS	ND	ND	ND	ND	ND
Phenol	5	NS	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	TP	NS	ND	ND	ND	ND	ND

/PHEN82/01/PHE82/01/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol		4-Nitrophenol			
NS = Not sampled					
NA = Not analyzed					
ND = Not detected					
TP = WQCC toxic pollutant					

MW-6S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/27/94	12/13/94	03/28/95
Phenols							
4-Chloro-3-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Chlorophenol	None	NS	ND	ND	ND	ND	ND
2,4-Dichlorophenol	TP	NS	ND	ND	ND	ND	ND
2,4-Dimethylphenol	None	NS	ND	ND	ND	ND	ND
2,4-Dinitrophenol	TP	NS	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	NS	ND	ND	ND	ND	ND
2-Nitrophenol	None	NS	ND	ND	ND	ND	ND
4-Nitrophenol	None	NS	ND	ND	ND	ND	ND
Pentachlorophenol	TP	5	NS	ND	ND	ND	ND
Phenol		TP	NS	ND	ND	ND	ND
2,4,6-Trichlorophenol					ND	ND	ND

/PHEN82/WIPHE82/WWQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

MW-15
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
Phenols					
4-Chloro-3-methylphenol					
2-Chlorophenol					
2,4-Dichlorophenol	None	ND	ND	ND	ND
2,4-Dimethylphenol	None	ND	ND	ND	ND
2,4-Dinitrophenol	TP	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	None	ND	ND	ND	ND
2-Nitrophenol	None	ND	ND	ND	ND
4-Nitrophenol	None	ND	ND	ND	ND
Pentachlorophenol	TP	ND	ND	ND	ND
Phenol	5	ND	ND	ND	ND
2,4,6-Trichlorophenol	TP	ND	ND	ND	ND

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Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol		4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

MW-17
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
Phenols					
4-Chloro-3-methylphenol	None	ND	ND,ND	ND	ND
2-Chlorophenol	None	ND	ND,ND	ND	ND
2,4-Dichlorophenol	TP	ND	ND,ND	ND	ND
2,4-Dimethylphenol	None	ND	ND,ND	ND	ND
2,4-Dinitrophenol	TP	ND	ND,ND	ND	ND
4,6-Dinitro-2-methylphenol	None	ND	ND,ND	ND	ND
2-Nitrophenol	None	ND	ND,ND	ND	ND
4-Nitrophenol	None	ND	ND,ND	ND	ND
Pentachlorophenol	TP	ND	ND,ND	ND	ND
Phenol	5	ND	ND,ND	ND	ND
2,4,6-Trichlorophenol	TP	ND	ND,ND	ND	ND

/PHEN82701PHE82701WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-1
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	1200			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	TP	ND			
Pentachlorophenol	5	ND			
Phenol	TP	ND			
2,4,6-Trichlorophenol					

/PHEN82701PHE8270WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	100	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-2
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	3200			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN82701PHE&Z0/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	200	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-3
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	ND			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
Pentachlorophenol	None	ND			
Phenol	TP	ND			
2,4,6-Trichlorophenol	5	ND			
	TP	ND			

/PHEN82701PHEN8270WWQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-4
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	37		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEN82701PHE8270WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-5
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	ND			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN82/W1PHERBZ70.WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		
NS = Not sampled					
NA = Not analyzed					
ND = Not detected					
TP = WQCC toxic pollutant					

WP-6
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	ND		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEN8270/PHB8270/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-7
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	ND		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHENES2701PHE8270AWC2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-8
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	78		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEN827/WIPHE827/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-9
Brickland Refinery Site
Quarterly Analytical Results
(All results in $\mu\text{g/l}$)

Parameter	WQCC Std.	03/27/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	380		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	170		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	12		

/PHEN32701PHE3270WQ2

Detection Limits ($\mu\text{g/l}$):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	100	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-15

Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	ND			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN82/W1PHE&2/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-18
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	ND		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEN82701PHE82701WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-19

Brickland Refinery Site
Quarterly Analytical Results
 (All results in ug/l)

Parameter	WQCC Std.	03/28/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	28			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	78			
2,4,6-Trichlorophenol	TP	ND			

/PHEN8270/1PH8270/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

50
10
10

WP-20
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95
Phenols		
4-Chloro-3-methylphenol	None	ND
2-Chlorophenol	None	ND
2,4-Dichlorophenol	TP	ND
2,4-Dimethylphenol	None	ND
2,4-Dinitrophenol	TP	ND
4,6-Dinitro-2-methylphenol	None	ND
2-Nitrophenol	None	ND
4-Nitrophenol	None	ND
Pentachlorophenol	TP	ND
Phenol	5	ND
2,4,6-Trichlorophenol	TP	ND

#PHEN82701PHE8270.WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol

10

2,4-Dinitrophenol

10

4,6-Dinitro-2-methylphenol

10

2,4-Dichlorophenol

10

2-Nitrophenol

10

4-Nitrophenol

10

Pentachlorophenol

50

Phenol

10

2,4,6-Trichlorophenol

10

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-23
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95			
Phenols					
4-Chloro-3-methylphenol					
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	None	ND			
2,4-Dimethylphenol	TP	ND			
2,4-Dinitrophenol	None	ND			
4,6-Dinitro-2-methylphenol	TP	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN827/W/PHE827/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

2,4-Dinitrophenol	50	Pentachlorophenol	50
4,6-Dinitro-2-methylphenol	50	Phenol	10
2-Nitrophenol	10	2,4,6-Trichlorophenol	10
4-Nitrophenol	50		

WP-24

Brickland Refinery Site
Quarterly Analytical Results
 (All results in ug/l)

Parameter	WQCC Std.	03/27/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	ND			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN82701PHEN82701WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol

10

2,4-Dinitrophenol

10

4,6-Dinitro-2-methylphenol

50

2-Nitrophenol

10

4-Nitrophenol

50

Pentachlorophenol

50

Phenol

10

2,4,6-Trichlorophenol

10

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-26d
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	55		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEN827W1PHE827WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	50	2,4-Dinitrophenol	250	Pentachlorophenol	250
2-Chlorophenol	50	4,6-Dinitro-2-methylphenol	250	Phenol	50
2,4-Dichlorophenol	50	2-Nitrophenol	50	2,4,6-Trichlorophenol	50
2,4-Dimethylphenol	50	4-Nitrophenol	250		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-27d
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95				
Phenols						
4-Chloro-3-methylphenol	None	ND				
2-Chlorophenol	None	ND				
2,4-Dichlorophenol	TP	ND				
2,4-Dimethylphenol	None	6000				
2,4-Dinitrophenol	TP	ND				
4,6-Dinitro-2-methylphenol	None	ND				
2-Nitrophenol	None	ND				
4-Nitrophenol	None	ND				
Penta-chlorophenol	TP	ND				
Phenol	5	ND				
2,4,6-Trichlorophenol	TP	ND				

/PHEN827W1PHB8270.WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	100	2,4-Dinitrophenol	500	Pentachlorophenol	500
2-Chlorophenol	100	4,6-Dinitro-2-methylphenol	500	Phenol	100
2,4-Dichlorophenol	100	2-Nitrophenol	100	2,4,6-Trichlorophenol	100
2,4-Dimethylphenol	400	4-Nitrophenol	500		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-29
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95			
Phenols					
4-Chloro-3-methylphenol	None	ND			
2-Chlorophenol	None	ND			
2,4-Dichlorophenol	TP	ND			
2,4-Dimethylphenol	None	2200			
2,4-Dinitrophenol	TP	ND			
4,6-Dinitro-2-methylphenol	None	ND			
2-Nitrophenol	None	ND			
4-Nitrophenol	None	ND			
Pentachlorophenol	TP	ND			
Phenol	5	ND			
2,4,6-Trichlorophenol	TP	ND			

/PHEN82701PHE8270.WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	500	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

WP-30
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
Phenols				
4-Chloro-3-methylphenol	None	ND		
2-Chlorophenol	None	ND		
2,4-Dichlorophenol	TP	ND		
2,4-Dimethylphenol	None	ND		
2,4-Dinitrophenol	TP	ND		
4,6-Dinitro-2-methylphenol	None	ND		
2-Nitrophenol	None	ND		
4-Nitrophenol	None	ND		
Pentachlorophenol	TP	ND		
Phenol	5	ND		
2,4,6-Trichlorophenol	TP	ND		

/PHEA8270/WPHEA8270/WQ2

Detection Limits (ug/l):

4-Chloro-3-methylphenol	10	2,4-Dinitrophenol	50	Pentachlorophenol	50
2-Chlorophenol	10	4,6-Dinitro-2-methylphenol	50	Phenol	10
2,4-Dichlorophenol	10	2-Nitrophenol	10	2,4,6-Trichlorophenol	10
2,4-Dimethylphenol	10	4-Nitrophenol	50		

NS = Not sampled

NA = Not analyzed

ND = Not detected

TP = WQCC toxic pollutant

MW-3D
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95
PAHs							
Acenaphthene	None	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
2-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
Naphthalene	30 *	ND	ND	ND	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-od)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH827/WPAH827/WQ2

MW-3S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/28/94	12/13/94	03/28/95
PAHs							
Acenaphthene	None	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	None	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND	ND	ND
Indeno(1,2,3- $\alpha\beta$)pyrene	None	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
2-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
Naphthalene	30 *	ND	ND	ND	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3- $\alpha\beta$)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAHs/70/PAHs/70/WQ2

MW-5

Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94	09/27/94	12/13/94	03/27/95
PAHs							
Acenaphthene	None	NS	ND	ND	ND	ND	ND
Acenaphthylene	None	NS	ND	ND	ND	ND	ND
Anthracene	TP	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	NS	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	NS	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	None	NS	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	NS	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	NS	ND	ND	ND	ND	ND
Chrysene	None	NS	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	None	NS	ND	ND	ND	ND	ND
Fluoranthene	TP	NS	ND	ND	ND	ND	ND
Fluorene	TP	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NS	79	78	110	71	65
2-Methylnaphthalene	TP	NS	ND	12	32	22	15
Naphthalene	30 *	NS	28	27	49	46	37
Phenanthrene	TP	NS	ND	ND	ND	ND	ND
Pyrene	TP	NS	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzof(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Florene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH&701PAH&70WQ2

MW-6D
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/28/94	12/13/94	03/28/95
PAHs							
Acenaphthene	None	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-od)pyrene	None	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
2-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
Naphthalene	30 *	ND	ND	ND	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10
Acenaphthylene	10	Benzo(a)pyrene	10
Anthracene	10	Chrysene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10
Benzo(b)fluoranthene	10	Fluoranthene	10
Benzo(k)fluoranthene	10	Fluorene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH82701PAH8270WQ2

Indeno(1,2,3-od)pyrene	10
1-Methylnaphthalene	10
2-Methylnaphthalene	10
Naphthalene	10
Phenanthrene	10
Pyrene	10

MW-6S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	6/27/94	09/28/94	12/13/94	03/28/95	
PAHs								
Acenaphthene	None	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND	ND
Naphthalene	30*	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH2701PAH270WQ2

MW-8
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94	09/27/94	12/13/94	03/27/95
PAHs							
Acenaphthene	None	NS	ND	ND	ND	ND	ND
Acenaphthylene	None	NS	ND	ND	ND	ND	ND
Anthracene	TP	NS	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	NS	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	NS	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	NS	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	NS	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	NS	ND	ND	ND	ND	ND
Chrysene	None	NS	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	NS	ND	ND	ND	ND	ND
Fluoranthene	TP	NS	ND	ND	ND	ND	ND
Florene	TP	NS	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NS	46	ND	61	42	50
2-Methylnaphthalene	TP	NS	64	ND	75	54	42
Naphthalene	30 *	NS	140	93	230	140	88
Phenanthrene	TP	NS	ND	ND	ND	ND	ND
Pyrene	TP	NS	ND	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH8270/PAH8270/WQ2

MW-8S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95
PAHs		
Acenaphthene	None	ND
Acenaphthylene	None	ND
Anthracene	TP	ND
Benzo(a)anthracene	None	ND
Benzo(b)fluoranthene	None	ND
Benzo(k)fluoranthene	TP	ND
Benzo(g,h,i)perylene	None	ND
Benzo(a)pyrene	0.7	ND
Chrysene	None	ND
Dibenz(a,h)anthracene	None	ND
Fluoranthene	TP	ND
Fluorene	TP	ND
Indeno(1,2,3-cd)pyrene	None	ND
1-Methylnaphthalene	TP	ND
2-Methylnaphthalene	TP	ND
Naphthalene	30 *	ND
Phenanthrene	TP	ND
Pyrene	TP	ND

/PAH827/W1PAH827/WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

MW-9S
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/27/94	12/13/94	03/28/95
PAHs							
Acenaphthene	None	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	None	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND	ND	ND
Indeno(1,2,3- <i>cd</i>)pyrene	None	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
2-Methylnaphthalene	TP	NA	ND	ND	ND	ND	ND
Naphthalene	30 *	ND	ND	ND	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND	ND	ND

#PAHs/701PAHs/701WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3- <i>cd</i>)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

MW-11
 Brickland Refinery Site
 Quarterly Analytical Results
 (All results in ug/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/27/94	12/13/94	03/27/95	
PAHs								
Acenaphthene	None	NS	ND	ND	ND	ND	ND	ND
Acenaphthylene	None	NS	ND	ND	ND	ND	ND	ND
Anthracene	TP	NS	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	None	NS	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	None	NS	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	NS	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	0.7	NS	ND	ND	ND	ND	ND
Benzo(a)pyrene	None	NS	ND	ND	ND	ND	ND	ND
Chrysene	None	NS	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	NS	ND	ND	ND	ND	ND	ND
Fluoranthene	TP	NS	ND	ND	ND	ND	ND	ND
Florene	TP	NS	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	TP	NS	29	ND	120	ND	69	ND
2-Methylnaphthalene	TP	NS	ND	ND	18	ND	ND	ND
Naphthalene	30 *	NS	ND	ND	35	ND	ND	ND
Phenanthrene	TP	NS	ND	ND	32	21	ND	ND
Pyrene	TP	NS	ND	ND	16	58	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAHC2011PAH&70WQ2

MW-14
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
PAHs					
Acenaphthene	None	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND	ND
1-Methylnaphthalene	TP	160	26	ND	ND
2-Methylnaphthalene	TP	180	14	ND	ND
Naphthalene	30 *	230	ND	ND	ND
Phenanthrene	TP	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

MW-15
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
PAHs					
Acenaphthene	None	ND	ND	ND	ND
Acenaphthylene	None	ND	ND	ND	ND
Anthracene	TP	ND	ND	ND	ND
Benzo(a)anthracene	None	ND	ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND	ND	ND
Chrysene	None	ND	ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND	ND	ND
Fluoranthene	TP	ND	ND	ND	ND
Fluorene	TP	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND	ND
1-Methylnaphthalene	TP	61	62	47	ND
2-Methylnaphthalene	TP	41	11	ND	ND
Naphthalene	30 *	15	53	37	ND
Phenanthrene	TP	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH8270/WPAH8270/WC2

MW-17

Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
PAHs					
Acenaphthene	None	ND	ND,ND	ND	ND
Acenaphthylene	None	ND	ND,ND	ND	ND
Anthracene	TP	ND	ND,ND	ND	ND
Benzo(a)anthracene	None	ND	ND,ND	ND	ND
Benzo(b)fluoranthene	None	ND	ND,ND	ND	ND
Benzo(k)fluoranthene	TP	ND	ND,ND	ND	ND
Benzo(g,h,i)perylene	None	ND	ND,ND	ND	ND
Benzo(a)pyrene	0.7	ND	ND,ND	ND	ND
Chrysene	None	ND	ND,ND	ND	ND
Dibenz(a,h)anthracene	None	ND	ND,ND	ND	ND
Fluoranthene	TP	ND	ND,ND	ND	ND
Fluorene	TP	ND	ND,ND	ND	ND
Indeno(1,2,3-cd)pyrene	None	ND	ND,ND	ND	ND
1-Methylnaphthalene	TP	ND	20,14	ND	ND
2-Methylnaphthalene	TP	ND	14,10	ND	ND
Naphthalene	30*	ND	24,13	ND	ND
Phenanthrene	TP	ND	ND	ND	ND
Pyrene	TP	ND	ND	ND	ND

Detection Limits (ug/l):

Acenaphthene	10	Benz{o(g,h,i)}perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benz{o(a)}pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Florene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

#PAH8270/WQCC8270/WQ2

WP-1
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Florene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	36	
2-Methylnaphthalene	TP	33	
Naphthalene	30 *	26	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

/PAH82701/PAH8270/WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-od)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-2
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	ND	
2-Methylnaphthalene	TP	ND	
Naphthalene	30 *	19	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

/PAH8701PAH8701WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-od)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-3
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95
PAHs		
Acenaphthene	None	ND
Acenaphthyrene	None	ND
Anthracene	TP	ND
Benzo(a)anthracene	None	ND
Benzo(b)fluoranthene	None	ND
Benzo(k)fluoranthene	TP	ND
Benzo(g,h,i)perylene	None	ND
Benzo(a)pyrene	0.7	ND
Chrysene	None	ND
Dibenzo(a,h)anthracene	None	ND
Fluoranthene	TP	ND
Fluorene	TP	ND
Indeno(1,2,3-cd)pyrene	None	ND
1-Methylnaphthalene	TP	ND
2-Methylnaphthalene	TP	ND
Naphthalene	30 *	ND
Phenanthrene	TP	ND
Pyrene	TP	ND

PAHs/PAHs/WQCC

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthyrene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-4
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	48	
2-Methylnaphthalene	TP	39	
Naphthalene	30*	14	
Phenanthrene	TP	28	
Pyrene	TP	24	

PAH&NPAH&WQ2

Detection Limits (ug/l):

Acenaphthene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	1-Methylnaphthalene	10
Anthracene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-5
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
PAHs				
Acenaphthene	None	ND		
Acenaphthylene	None	ND		
Anthracene	TP	ND		
Benzo(a)anthracene	None	ND		
Benzo(b)fluoranthene	None	ND		
Benzo(k)fluoranthene	TP	ND		
Benzo(g,h,i)perylene	None	ND		
Benzo(a)pyrene	0.7	ND		
Chrysene	None	ND		
Dibenzo(a,h)anthracene	None	ND		
Fluoranthene	TP	ND		
Fluorene	TP	ND		
Indeno(1,2,3-cd)pyrene	None	ND		
1-Methylnaphthalene	TP	24		
2-Methylnaphthalene	TP	27		
Naphthalene	30 *	73	ND	
Phenanthrene	TP	ND	ND	
Pyrene	TP	ND		

Detection Limits (ug/l):

Acenaphthene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	1-Methylnaphthalene	10
Anthracene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH82071PAH&70W02

WP-6
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Florene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	160	
2-Methylnaphthalene	TP	200	
Naphthalene	30 *	290	
Phenanthrene	TP	20	
Pyrene	TP	35	

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	50
Anthracene	10	Chrysene	10	2-Methylnaphthalene	50
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAHS70/PAHS70/WQ2

WP-7
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95
PAHs		
Acenaphthene	None	ND
Acenaphthylene	None	ND
Anthracene	TP	ND
Benzo(a)anthracene	None	ND
Benzo(b)fluoranthene	None	ND
Benzo(k)fluoranthene	TP	ND
Benzo(g,h,i)perylene	None	ND
Benzo(a)pyrene	0.7	ND
Chrysene	None	ND
Dibenz(a,h)anthracene	None	ND
Fluoranthene	TP	ND
Fluorene	TP	ND
Indeno(1,2,3-cd)pyrene	None	ND
1-Methylnaphthalene	TP	12
2-Methylnaphthalene	TP	ND
Naphthalene	30*	ND
Phenanthrene	TP	ND
Pyrene	TP	ND

/PAH&2701PAH&2701WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-8
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
PAHs				
Acenaphthene	None	ND		
Acenaphthylene	None	ND		
Anthracene	TP	ND		
Benzo(a)anthracene	None	ND		
Benzo(b)fluoranthene	None	ND		
Benzo(k)fluoranthene	TP	ND		
Benzo(g,h,i)perylene	None	ND		
Benzo(a)pyrene	0.7	ND		
Chrysene	None	ND		
Dibenz(a,h)anthracene	None	ND		
Fluoranthene	TP	ND		
Fluorene	TP	ND		
Indeno(1,2,3-cd)pyrene	None	ND		
1-Methylnaphthalene	TP	40		
2-Methylnaphthalene	TP	59		
Naphthalene	30 *	73		
Phenanthrene	TP	ND		
Pyrene	TP	ND		

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3- <i>o</i>)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

RPAH82701PAH8270WQ2

WP-9
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95		
PAHs				
Acenaphthene	None	ND		
Acenaphthylene	None	ND		
Anthracene	TP	ND		
Benzo(a)anthracene	None	ND		
Benzo(b)fluoranthene	None	ND		
Benzo(k)fluoranthene	TP	ND		
Benzo(g,h,i)perylene	None	ND		
Benzo(a)pyrene	0.7	ND		
Chrysene	None	ND		
Dibenzo(a,h)anthracene	None	ND		
Fluoranthene	TP	ND		
Fluorene	TP	ND		
Indeno(1,2,3-cd)pyrene	None	ND		
1-Methylnaphthalene	TP	190		
2-Methylnaphthalene	TP	250		
Naphthalene	30 *	220		
Phenanthrene	TP	ND		
Pyrene	TP	ND		

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	100
Anthracene	10	Chrysene	10	2-Methylnaphthalene	100
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	100
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

PAH82701PAH82701WQ2

WP-15
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3- <i>cd</i>)pyrene	None	ND	
1-Methylnaphthalene	TP	ND	
2-Methylnaphthalene	TP	ND	
Naphthalene	30*	ND	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

/PAH82701PAH82701WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3- <i>cd</i>)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzof(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-18
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	52	
2-Methylnaphthalene	TP	66	
Naphthalene	30 *	60	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH&70/PAH&70/WQ2

WP-19
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
PAHs				
Acenaphthene	None	ND		
Acenaphthylene	None	ND		
Anthracene	TP	ND		
Benzo(a)anthracene	None	ND		
Benzo(b)fluoranthene	None	ND		
Benzo(k)fluoranthene	TP	ND		
Benzo(g,h,i)perylene	None	ND		
Benzo(a)pyrene	'0.7	ND		
Chrysene	None	ND		
Dibenzo(a,h)anthracene	None	ND		
Fluoranthene	TP	ND		
Fluorene	TP	ND		
Indeno(1,2,3-cd)pyrene	None	ND		
1-Methylnaphthalene	TP	75		
2-Methylnaphthalene	TP	87		
Naphthalene	30 *	120		
Phenanthrene	TP	ND		
Pyrene	TP	ND		

/PAH82701PAH8270/WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzof(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-20
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Aceanaphthene	None	ND	
Aceanaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	180	
2-Methylnaphthalene	TP	220	
Naphthalene	30 *	220	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

Detection Limits (ug/l):

Aceanaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Aceanaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	50
Anthracene	10	Chrysene	10	2-Methylnaphthalene	50
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	50
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Florene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH8270/WQCC/WQCC

WP-22
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	22	
2-Methylnaphthalene	TP	ND	
Naphthalene	30 *	ND	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

/PAHs/701/WQCC/WQ2

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-od)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-23
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Florene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	ND	
2-Methylnaphthalene	TP	ND	
Naphthalene	30 *	ND	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethyl/naphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

PAHs/TOXIC PAHs/WQ2

WP-26d
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/27/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Florene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	120	
2-Methylnaphthalene	TP	ND	
Naphthalene	30 *	ND	
Phenanthrene	TP	85	
Pyrene	TP	ND	

Detection Limits (ug/l):

Acenaphthene	50	Benzo(g,h,i)perylene	50	Indeno(1,2,3-cd)pyrene	50
Acenaphthylene	50	Benzo(a)pyrene	50	1-Methylnaphthalene	50
Anthracene	50	Chrysene	50	2-Methylnaphthalene	50
Benzo(a)anthracene	50	Dibenzo(a,h)anthracene	50	Naphthalene	50
Benzo(b)fluoranthene	50	Fluoranthene	50	Phenanthrene	50
Benzo(k)fluoranthene	50	Fluorene	50	Pyrene	50

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

PAHs/WQCC/WQ2

WP-27d
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95		
PAHs				
Acenaphthene	None	ND		
Acenaphthylene	None	ND		
Anthracene	TP	ND		
Benzo(a)anthracene	None	ND		
Benzo(b)fluoranthene	None	ND		
Benzo(k)fluoranthene	TP	ND		
Benzo(g,h,i)perylene	None	ND		
Benzo(a)pyrene	0.7	ND		
Chrysene	None	ND		
Dibenzo(a,h)anthracene	None	ND		
Fluoranthene	TP	ND		
Fluorene	TP	ND		
Indeno(1,2,3-cd)pyrene	None	ND		
1-Methylnaphthalene	TP	160		
2-Methylnaphthalene	TP	120		
Naphthalene	30 *	ND		
Phenanthrene	TP	ND		
Pyrene	TP	ND		

Detection Limits (ug/l):

Acenaphthene	100	Benzo(g,h,i)perylene	100	Indeno(1,2,3-cd)pyrene	100
Acenaphthylene	100	Benzo(a)pyrene	100	1-Methylnaphthalene	100
Anthracene	100	Chrysene	100	2-Methylnaphthalene	100
Benzo(s)anthracene	100	Dibenzo(a,h)anthracene	100	Naphthalene	100
Benzo(b)fluoranthene	100	Fluoranthene	100	Phenanthrene	100
Benzo(k)fluoranthene	100	Fluorene	100	Pyrene	100

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

WP-29
 Brickland Refinery Site
 Quarterly Analytical Results
 (All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	'0.7	ND	
Chrysene	None	ND	
Dibenz(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	70	
2-Methylnaphthalene	TP	110	
Naphthalene	30 *	160	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenz(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH&70/PAH&70/WQ2

WP-30
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

Parameter	WQCC Std.	03/28/95	
PAHs			
Acenaphthene	None	ND	
Acenaphthylene	None	ND	
Anthracene	TP	ND	
Benzo(a)anthracene	None	ND	
Benzo(b)fluoranthene	None	ND	
Benzo(k)fluoranthene	TP	ND	
Benzo(g,h,i)perylene	None	ND	
Benzo(a)pyrene	0.7	ND	
Chrysene	None	ND	
Dibenzo(a,h)anthracene	None	ND	
Fluoranthene	TP	ND	
Fluorene	TP	ND	
Indeno(1,2,3-cd)pyrene	None	ND	
1-Methylnaphthalene	TP	48	
2-Methylnaphthalene	TP	12	
Naphthalene	30 *	ND	
Phenanthrene	TP	ND	
Pyrene	TP	ND	

Detection Limits (ug/l):

Acenaphthene	10	Benzo(g,h,i)perylene	10	Indeno(1,2,3-cd)pyrene	10
Acenaphthylene	10	Benzo(a)pyrene	10	1-Methylnaphthalene	10
Anthracene	10	Chrysene	10	2-Methylnaphthalene	10
Benzo(a)anthracene	10	Dibenzo(a,h)anthracene	10	Naphthalene	10
Benzo(b)fluoranthene	10	Fluoranthene	10	Phenanthrene	10
Benzo(k)fluoranthene	10	Fluorene	10	Pyrene	10

*Standard for naphthalene includes monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

/PAH87071PAH&70/WQ2

MW-3D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95
Benzene	10	ND	ND	0.6	ND	ND	ND
Toluene	750	ND	ND	ND	ND	ND	ND
Ethyl Benzene	750	ND	ND	ND	ND	ND	ND
Xylenes	620	ND	ND	ND	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	NA	NA	NA	NA

Detection Limits (ug/l):
Benzene 0.5
Toluene 0.5

Ethyl Benzene 0.5
Xylenes 0.5

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/28/94	12/12/94	03/28/95
Calcium	None	NS	473	460	396	367	NS
Magnesium	None	NS	246	220	224	207	NS
Potassium	None	NS	36	61	21	17	NS
Sodium	None	NS	3830	2760	3230	3210	NS
Bicarbonate	None	NS	468	473	460	464	NS
Chloride	250	NS	4720	6560	4750	4800	NS
Nitrate (N)	10	NS	ND	0.1	ND	0.7	NS
Sulfate	600	NS	2630	2550	2330	2270	NS

Detection Limits (mg/l):
Calcium 1.0
Magnesium 0.1
Potassium 0.1
Sodium 5

Bicarbonate 5.0
Chloride 25
Nitrate (N) 0.1
Sulfate 50

ND = Not detected
NS = Not sampled
NA = Not analyzed

DSMW-3D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95	(All results in ug/l except TPH)		
Benzene	10	ND			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	0.5	Ethyl Benzene	0.5
Toluene	0.5	Xylenes	0.5

0.1 mg/l
 Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/28/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/1BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-3S
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95
Benzene	10	ND	ND	0.8	ND	ND	ND
Toluene	750	ND	4.9	ND	ND	ND	ND
Ethyl Benzene	750	ND	ND	ND	ND	ND	ND
Xylenes	620	ND	18	ND	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

Ethyl Benzene

0.5

Xylenes

Toluene

0.5

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/28/94	12/13/94	03/28/95
Calcium	None	NS	143	157	97.3	97.7	NS
Magnesium	None	NS	70.6	75.9	41.9	39.8	NS
Potassium	None	NS	13.3	28	8.6	8.5	NS
Sodium	None	NS	1390	1040	1050	985	NS
Bicarbonate	None	NS	624	756	692	854	NS
Chloride	250	NS	2030	2630	1240	1250	NS
Nitrate (N)	10	NS	ND	0.4	0.1	0.3	NS
Sulfate	600	NS	720	1010	620	573	NS

Detection Limits (mg/l):

Calcium

Bicarbonate

1.0

Magnesium

Chloride

0.1

Potassium

Nitrate (N)

0.1

Sodium

Sulfate

5

MW-4
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/27/94	12/13/94	03/27/95
Benzene	10	NS	130,110	1800	2000	220	220
Toluene	750	NS	ND,ND	12	ND	ND	ND
Ethyl Benzene	750	NS	2,5,1,6	50	ND	ND	6
Xylenes	620	NS	ND,ND	ND	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	NS	ND,ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

0.5

Toluene

0.5

Ethyl Benzene

0.5

Xylenes

0.5

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/27/94	12/13/94	03/27/95
Calcium	None	NS	740,755	430	370	298	NS
Magnesium	None	NS	262,247	217	225	219	NS
Potassium	None	NS	57,69	66	65	27	NS
Sodium	None	NS	2920,2930	2050	2340	2360	NS
Bicarbonate	None	NS	924,908	1350	1470	1020	NS
Chloride	250	NS	4010,4330	4300	4360	4680	NS
Nitrate (N)	10	NS	ND,ND	2.8	0.4	ND	NS
Sulfate	600	NS	1820,2100	932	364	3060	NS

Detection Limits (mg/l):

Calcium

20.0

Bicarbonate

5.0

Chloride

25.0

Nitrate (N)

0.1

Sulfate

20

/BTEX602/BTEX602.W02

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

100

MW-5
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/24/94	07/12/94	09/27/94	12/13/94	03/27/95
Benzene	10	NS	7100	5000,4200	5600	4600	4700
Toluene	750	NS	160	ND,ND	ND	ND	100
Ethyl Benzene	750	NS	53	ND,ND	ND	ND	70
Xylenes	620	NS	420	130,130	160	140	280
Total Vol. Petroleum Hydrocarbon	None	NS	12	NA,NA	NA	NA	NA

Detection Limits (ug/l):

Benzene 50
Toluene 50

Ethyl Benzene 50
Xylenes 50

Total Vol. Petroleum Hydrocarbons 50
Hydrocarbons 50

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/27/94	12/13/94	03/27/95
Calcium	None	NS	402	500	620	503	NS
Magnesium	None	NS	180	160	186	184	NS
Potassium	None	NS	24.2	58	60	21	NS
Sodium	None	NS	2880	2230	3040	3070	NS
Bicarbonate	None	NS	1860	1710	1630	1830	NS
Chloride	250	NS	5280	5450	4310	2430	NS
Nitrate (N)	10	NS	ND	0.3	ND	1.1	NS
Sulfate	600	NS	505	962	904	705	NS

Detection Limits (mg/l):

Calcium 1.0
Magnesium 0.5
Potassium 5.0
Sodium 20

Bicarbonate 5.0
Chloride 25.0
Nitrate (N) 0.1
Sulfate 200

ND = Not detected
NS = Not sampled
NA = Not analyzed

MW-6D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95
Benzene	10	ND	ND	ND	ND	ND	ND
Toluene	750	ND	ND	ND	ND	ND	ND
Ethyl Benzene	750	ND	ND	ND	ND	ND	ND
Xylenes	620	ND	1.6	ND	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

0.5

Ethyl Benzene
Xylenes

0.5

Total Vol. Petroleum
Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/28/94	12/13/94	03/28/95
Calcium	None	NS	510	530	411	379	NS
Magnesium	None	NS	218	188	190	177	NS
Potassium	None	NS	25	62	21	16	NS
Sodium	None	NS	3520	3100	3270	3410	NS
Bicarbonate	None	NS	475	739	506	525	NS
Chloride	250	NS	5600	3990	5000	5210	NS
Nitrate (N)	10	NS	ND	10	ND	1.0	NS
Sulfate	600	NS	2360	2420	2150	2490	NS

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

25

Nitrate (N)

0.1

Sulfate

500

/BTEX602/BTEX602.WQ2

ND = Not detected

NS = Not sampled

NA = Not analyzed

DSMW-6D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95	(All results in ug/l except TPH)		
Benzene	10	ND			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	0.5	Ethyl Benzene	0.5	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	0.5	Xylenes	0.5		

(All results in mg/l)

Parameter	WQCC Std.	03/28/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-6S
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95*	
Benzene	10	71	74	110	4.8	59	110	
Toluene	750	ND	ND	ND	2.8	ND	7	
Ethyl Benzene	750	52	12	30	34	ND	31.5	
Xylenes	620	ND	7.6	88	16	ND	43.5	
Total Vol. Petroleum Hydrocarbon	None	2.9	1.8	NA	NA	NA	NA	

Detection Limits (ug/l):

Benzene

0.5

Toluene

0.5

Ethyl Benzene

Xylenes

0.5

Ethyl Benzene

Xylenes

Ethyl Benzene

Xylenes

*Detection limit for BTEX constituents = 5 ug/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/28/94	12/13/94	03/28/95	
Calcium	None	NS	244	259	155	150	NS	
Magnesium	None	NS	104	101	125	82.3	NS	
Potassium	None	NS	19.4	40	25	14	NS	
Sodium	None	NS	1550	1120	2980	1840	NS	
Bicarbonate	None	NS	1690	2020	2550	2710	NS	
Chloride	250	NS	5280	2090	1650	2180	NS	
Nitrate (N)	10	NS	ND	0.4	ND	ND	NS	
Sulfate	600	NS	505	84	130	209	NS	

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Magnesium

0.1

Chloride

25

Potassium

0.1

Nitrate (N)

0.1

Sodium

5

Sulfate

50

/BTEX/602/BTEX/602/WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-7
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/24/94	07/12/94	09/27/94	12/13/94	03/27/95
Benzene	10	NS	31	ND	ND	36	100
Toluene	750	NS	ND	ND	ND	ND	ND
Ethyl Benzene	750	NS	2.1	ND	3.6	ND	ND
Xylenes	620	NS	0.6	3.2	1.3	ND	ND
Total Vol. Petroleum Hydrocarbon	None	NS	ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

0.5

Ethyl Benzene

0.5

Xylenes

0.5

Total Vol. Petroleum

Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/27/94	12/13/94	03/27/95
Calcium	None	NS	300	248	320	229	NS
Magnesium	None	NS	72.3	66.8	73	77.4	NS
Potassium	None	NS	22.1	37	41.5	15	NS
Sodium	None	NS	1620	710	1230	1100	NS
Bicarbonate	None	NS	1320	1330	1300	1500	NS
Chloride	250	NS	2220	1210	1580	1570	NS
Nitrate (N)	10	NS	ND	0.3	0.1	5.1	NS
Sulfate	600	NS	755	575	548	333	NS

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

5.0

Nitrate (N)

0.2

Sulfate

30

/STEX602/1BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-8
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/24/94	07/12/94	09/27/94	12/13/94	03/27/95
Benzene	10	NS	9600	2400	13000	5300	14000
Toluene	750	NS	ND	ND	ND	ND	ND
Ethyl Benzene	750	NS	ND	ND	ND	ND	ND
Xylenes	620	NS	720	ND	ND	140	1100
Total Vol. Petroleum Hydrocarbon	None	NS	ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

125

Ethyl Benzene

125

Xylenes

125

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/27/94	12/13/94	03/27/95
Calcium	None	NS	46.5	89.9	47.2	60.0	NS
Magnesium	None	NS	33.9	36.1	38.2	36.4	NS
Potassium	None	NS	10.2	20.0	29.8	13.1	NS
Sodium	None	NS	1560	1150	1550	1870	NS
Bicarbonate	None	NS	2680	2670	2930	2940	NS
Chloride	250	NS	1210	1380	1450	831	NS
Nitrate (N)	10	NS	ND	0.5	0.1	5.5	NS
Sulfate	600	NS	20	60	73	72	NS

Detection Limits (mg/l):

Calcium

0.5

Bicarbonate

5.0

Chloride

5.0

Nitrate (N)

0.2

Sulfate

10

/BTEX602/BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-9S
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95
Benzene	10	ND	ND	ND	ND	ND	ND
Toluene	750	ND	ND	ND	ND	ND	ND
Ethyl Benzene	750	ND	ND	ND	ND	ND	ND
Xylenes	620	ND	ND	0.6	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	NA	NA	NA	NA

Detection Limits (ug/l):
 Benzene 0.5
 Toluene 0.5

Ethyl Benzene 0.5
 Xylenes 0.5

Total Vol. Petroleum Hydrocarbons 0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94	09/27/94	12/13/94	03/28/95
Calcium	None	NS	305	245	322	255	NS
Magnesium	None	NS	104	87.3	95.6	88.9	NS
Potassium	None	NS	13.7	27	32	11	NS
Sodium	None	NS	1450	1090	1510	1520	NS
Bicarbonate	None	NS	628	820	830	866	NS
Chloride	250	NS	1280	1350	1500	1440	NS
Nitrate (N)	10	NS	ND	1.4	ND	0.4	NS
Sulfate	600	NS	1800	2010	1760	978	NS

Detection Limits (mg/l):
 Calcium 1.0
 Magnesium 0.5
 Potassium 5.0
 Sodium 20

Bicarbonate 5.0
 Chloride 5.0
 Nitrate (N) 0.1
 Sulfate 100

/RTEX-6/2/ABTEX/6/2/WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-11
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/24/94	07/12/94	09/27/94	12/13/94	03/27/95*
Benzene	10	NS	120	ND	15	15	15
Toluene	750	NS	0.7	ND	2.3	ND	ND
Ethyl Benzene	750	NS	4.7	ND	8.9	ND	ND
Xylenes	620	NS	4.4	ND	9.4	2.5	ND
Total Vol. Petroleum Hydrocarbon	None	NS	1.0	ND	NA	NA	NA

Detection Limits (ug/l):

Benzene

0.5

Toluene

0.5

*Detection limit for BTEX constituents = 5 ug/l

Ethyl Benzene

0.5

Xylenes

0.5

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/27/94	12/13/94	03/27/95
Calcium	None	NS	79	116	201	93.4	NS
Magnesium	None	NS	62.3	69.5	72.2	60.8	NS
Potassium	None	NS	18.3	29	39.4	12	NS
Sodium	None	NS	1050	820	950	985	NS
Bicarbonate	None	NS	1620	1830	2100	1980	NS
Chloride	250	NS	959	927	792	924	NS
Nitrate (N)	10	NS	0.2	1.3	0.6	0.2	NS
Sulfate	600	NS	ND	18	22	35	NS

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

3.0

Nitrate (N)

0.1

Sulfate

20

/BTEX602/BTEX602.WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

USMW-12
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95	(All results in ug/l except TPH)		
Benzene	10	ND			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene

0.5

Ethyl Benzene

0.5

Xylenes

0.1 mg/l

Total Vol. Petroleum Hydrocarbons

0.5

0.5

Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/28/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium

5.0

Bicarbonate

5.0

Chloride

50

Nitrate (N)

0.1

Sulfate

200

/BTTEX602/1BTTEX602.W02

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-14
 Brickland Refinery Site
 Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	07/12/94	09/27/94	12/13/94	03/27/95*		
Benzene	10	23000	2900	930	1100	ND	
Toluene	750	ND	ND	ND	25	ND	
Ethyl Benzene	750	ND	ND	ND	ND	NA	
Xylenes	620	ND	ND	NA	NA	NA	
Total Vol. Petroleum Hydrocarbon	None	NA	NA	NA	NA	NA	

Detection Limits (ug/l):

Benzene 10

Toluene 10

Ethyl Benzene 10
 Xylenes 10

*Detection limit for BTEX constituents = 25 ug/l

(All results in mg/l)

Parameter	WQCC Std.	07/12/94	09/27/94	12/13/94	03/27/95		
Calcium	None	165	625	413	NS		
Magnesium	None	81.3	154	154	NS		
Potassium	None	11.4	42	19	NS		
Sodium	None	730	1800	1720	NS		
Bicarbonate	None	1490	1160	1510	NS		
Chloride	250	910	3190	2430	NS		
Nitrate (N)	10	ND	ND	ND	NS		
Sulfate	600	200	986	1460	NS		

Detection Limits (mg/l):

Calcium 1.0

Magnesium 0.5

Potassium 5.0

Sodium 20

Bicarbonate 5.0
 Chloride 25
 Nitrate (N) 0.1
 Sulfate 5.0

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

/BTEX40/1/BTEX602/WQ2

MW-15
 Brickland Refinery Site
 Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	07/12/94	09/27/94	12/13/94	03/27/95
Benzene	10	23000	ND	930	NS
Toluene	750	ND	ND	ND	NS
Ethyl Benzene	750	ND	ND	ND	NS
Xylenes	620	ND	ND	ND	NS
Total Vol. Petroleum Hydrocarbon	None	NA	NA	NA	NS

Detection Limits (ug/l):

Benzene 10

Toluene 10

Ethyl Benzene 10

Xylenes 10

Total Vol. Petroleum Hydrocarbons 10

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	07/12/94	09/27/94	12/13/94	03/27/95
Calcium	None	165	625	413	NS
Magnesium	None	81.3	154	154	NS
Potassium	None	11.4	42	19	NS
Sodium	None	730	1800	1720	NS
Bicarbonate	None	1490	1160	1510	NS
Chloride	250	910	3190	2430	NS
Nitrate (N)	10	ND	ND	ND	NS
Sulfate	600	200	986	1460	NS

Detection Limits (mg/l):

Calcium 1.0 Bicarbonate 5.0

Magnesium 0.5 Chloride 25

Potassium 5.0 Nitrate (N) 0.1

Sodium 20 Sulfate 5.0

/BTEX602/BTEX602WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

MW-16
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
Benzene	10	ND,ND	ND	ND	ND
Toluene	750	ND,ND	ND	ND	ND
Ethyl Benzene	750	ND,ND	ND	ND	ND
Xylenes	620	2,11	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

0.5

Xylenes

0.5

Ethyl Benzene
Xylenes

0.5

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	07/12/94	09/27/94	09/27/94	03/27/95
Calcium	None	237,243	261	224	NS
Magnesium	None	96,799.5	108	98.3	NS
Potassium	None	35,30	33.5	15	NS
Sodium	None	1500,1490	1510	1870	NS
Bicarbonate	None	1100,1090	1130	1160	NS
Chloride	250	1910,1870	1950	1980	NS
Nitrate (N)	10	ND,ND	0.9	ND	NS
Sulfate	600	1510,1780	2340	1840	NS

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Magnesium

0.5

Chloride

10

Potassium

5.0

Nitrate (N)

0.1

Sodium

20

Sulfate

200

/BTEX602/BTEX602/WQ2

ND = Not detected

NS = Not sampled

NA = Not analyzed

MW-17
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
Benzene	10	17	46.68	460	67
Toluene	750	ND	21.25	ND	ND
Ethyl Benzene	750	19	35.41	10	ND
Xylenes	620	30	8.92	10	ND
Total Vol. Petroleum Hydrocarbon	None	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

5

Toluene

5

Ethyl Benzene

5

Xylenes

5

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	06/28/94	09/27/94	12/13/94	03/27/95
Calcium	None	218	241,237	278	NS
Magnesium	None	63.8	77,76.3	80	NS
Potassium	None	38	36.4,36.7	13	NS
Sodium	None	610	136,800	2090	NS
Bicarbonate	None	1100	1590,1650	1700	NS
Chloride	250	1350	2110,1930	2430	NS
Nitrate (N)	10	0.3	0.1,ND	ND	NS
Sulfate	600	318	239,198	407	NS

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

5.0

Nitrate (N)

0.1

Sulfate

100

/BTBEX602/BTBEX602.W02

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-1
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95				
Benzene	10	300				
Toluene	750	14				
Ethyl Benzene	750	25				
Xylenes	620	45				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene

5

Xylenes

5

Ethyl Benzene

5

Toluene

5

Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/27/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

25

Potassium

0.1

Nitrate (N)

0.1

Sulfate

50

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

/BTEX602/1BTEX602.WQ2

WP-2
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95				
Benzene	10	500				
Toluene	750	320				
Ethyl Benzene	750	72				
Xylenes	620	110				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene	25	Ethyl Benzene	25	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	25	Xylenes	25		

(All results in mg/l)

Parameter	WQCC Std.	03/27/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX02/1/BTEX602/WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-3
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95			
Benzene	10	ND			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene
Toluene

0.5
0.5

Ethyl Benzene
Xylenes

0.5

Ethyl Benzene
Xylenes

0.1 mg/l
Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/27/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium
Magnesium
Potassium
Sodium

1.0
0.1
0.1
5

Bicarbonate
Chloride
Nitrate (N)
Sulfate

5.0
25
0.1
50

ND = Not detected
NS = Not sampled
NA = Not analyzed

/BTEX602/BTEX602 WQ2

WP-4

Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95				
Benzene	10	ND				
Toluene	750	ND				
Ethyl Benzene	750	ND				
Xylenes	620	26				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene	5	Ethyl Benzene	5	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	5	Xylenes	5		

(All results in mg/l)

Parameter	WQCC Std.	03/27/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/BTEX602.WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-5
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95			
Benzene	10	4500			
Toluene	750	ND			
Ethyl Benzene	750	130			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	50	Ethyl Benzene	50
Toluene	50	Xylenes	

0.1 mg/l
 Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/28/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX/02/BTEX/02/WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-6
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95	(All results in ug/l except TPH)		
Benzene	10	17000 E			
Toluene	750	ND			
Ethyl Benzene	750	1400			
Xylenes	620	160			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene

Toluene

125 Ethyl Benzene 125
125 Xylenes 125

0.1 mg/l
Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/28/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium

Magnesium

Potassium

Sodium

1.0 Bicarbonate 5.0
0.1 Chloride 25
0.1 Nitrate (N) 0.1
5 Sulfate 50

/BTEX602/1BTEX602.WQ2

ND = Not detected

NS = Not sampled

NA = Not analyzed

E = Sample result is an estimate because the concentration exceeded the calibration range of the instrument.

WP-7
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95				
Benzene	10	5				
Toluene	750	ND				
Ethyl Benzene	750	ND				
Xylenes	620	ND				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ng/l):

Benzene

5

Ethyl Benzene

5

Xylenes

0.1 mg/l

Total Vol. Petroleum Hydrocarbons

5

(All results in mg/l)

Parameter	WQCC Std.	03/27/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

25

Nitrate (N)

0.1

Sulfate

50

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

/BTEX602/1BTEX602.WC2

WP-8
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95			
Benzene	10	5300			
Toluene	750	ND			
Ethyl Benzene	750	100			
Xylenes	620	100			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene

50

Ethyl Benzene

50

Xylenes

0.1 mg/l

Total Vol. Petroleum Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/27/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Chloride

25

Nitrate (N)

0.1

Sulfate

Sodium

50

/BTEX602/BTEX602WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-9
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95	(All results in ug/l except TPH)		
Benzene	10	6600			
Toluene	750	200			
Ethyl Benzene	750	500			
Xylenes	620	1400			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	125	Ethyl Benzene	125	Total Vol. Petroleum Hydrocarbons
Toluene	125	Xylenes	125	Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/27/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-15
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95			
Benzene	10	ND			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	0.5	Ethyl Benzene	0.5
Toluene	0.5	Xylenes	0.5

Total Vol. Petroleum
Hydrocarbons

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/28/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/BTEX602.WQ2

ND = Not detected
NS = Not sampled
NA = Not analyzed

WP-18
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95			
Benzene	10	76			
Toluene	750	ND			
Ethyl Benzene	750	14			
Xylenes	620	8			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	5
Toluene	5

Ethyl Benzene	5
Xylenes	5

Total Vol. Petroleum Hydrocarbons	0.1 mg/l
-----------------------------------	----------

(All results in mg/l)

Parameter	WQCC Std.	03/28/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/1/BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-19
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95				
Benzene	10	9400				
Toluene	750	ND				
Ethyl Benzene	750	670				
Xylenes	620	380				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene	125	Ethyl Benzene	125	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	125	Xylenes			

(All results in mg/l)

Parameter	WQCC Std.	03/28/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX/02/BTEX/02/WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-20
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95			
Benzene	10	1700			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	25	Ethyl Benzene	25
Toluene	25	Xylenes	

0.1 mg/l
 Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/27/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX6021BTEX602WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-22
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95	(All results in ug/l except TPH)		
Benzene	10	1800			
Toluene	750	ND			
Ethyl Benzene	750	88			
Xylenes	620	ND			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	50	Ethyl Benzene	50	Total Vol. Petroleum Hydrocarbons
Toluene	50	Xylenes	50	

(All results in mg/l)

Parameter	WQCC Std.	03/27/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/STEX602/1BTEX602/WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-23
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95		
Benzene	10	0.9		
Toluene	750	ND		
Ethyl Benzene	750	ND		
Xylenes	620	ND		
Total Vol. Petroleum Hydrocarbon	None	NA		

Detection Limits (ug/l):

Benzene 0.5

Toluene 0.5

Ethyl Benzene 0.5
Xylenes 0.5

Total Vol. Petroleum Hydrocarbons 0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/28/95		
Calcium	None	NS		
Magnesium	None	NS		
Potassium	None	NS		
Sodium	None	NS		
Bicarbonate	None	NS		
Chloride	250	NS		
Nitrate (N)	10	NS		
Sulfate	600	NS		

Detection Limits (mg/l):

Calcium 1.0

Magnesium 0.1

Potassium 0.1

Sodium 5

Bicarbonate 5.0
Chloride 25
Nitrate (N) 0.1
Sulfate 50

ND = Not detected
NS = Not sampled
NA = Not analyzed

/ETEX/02/15TEX/02/WQ2

WP-24
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95				
Benzene	10	160				
Toluene	750	ND				
Ethyl Benzene	750	ND				
Xylenes	620	ND				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene	10	Ethyl Benzene	10
Toluene	10	Xylenes	10

0.1 mg/l
 Total Vol. Petroleum Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	03/27/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/BTEX602.WQ2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-26d
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/27/95	(All results in ug/l except TPH)		
Benzene	10	20			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	16			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene

5

Ethyl Benzene

5

Xylenes

0.1 mg/l

Total Vol. Petroleum Hydrocarbons

5

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/27/95	(All results in mg/l)		
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Magnesium

0.1

Chloride

25

Potassium

0.1

Nitrate (N)

0.1

Sodium

5

Sulfate

50

/BTEX602/BTEX602WQ2

ND = Not detected

NS = Not sampled

NA = Not analyzed

WP-29

**Brickland Refinery Site
Quarterly Analytical Results**

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95				
Benzene	10	1900				
Toluene	750	ND				
Ethyl Benzene	750	95				
Xylenes	620	210				
Total Vol. Petroleum Hydrocarbon	None	NA				

Detection Limits (ug/l):

Benzene

50

Ethyl Benzene

50

Xylenes

Total Vol. Petroleum Hydrocarbons

50

0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/28/95				
Calcium	None	NS				
Magnesium	None	NS				
Potassium	None	NS				
Sodium	None	NS				
Bicarbonate	None	NS				
Chloride	250	NS				
Nitrate (N)	10	NS				
Sulfate	600	NS				

Detection Limits (mg/l):

Calcium

1.0

Bicarbonate

5.0

Magnesium

0.1

Chloride

25

Potassium

0.1

Nitrate (N)

0.1

Sodium

5

Sulfate

50

/BTEX602/BTEX602.WC2

ND = Not detected
 NS = Not sampled
 NA = Not analyzed

WP-30

**Brickland Refinery Site
Quarterly Analytical Results**

(All results in ug/l except TPH)

Parameter	WQCC Std.	03/28/95			
Benzene	10	8.6			
Toluene	750	ND			
Ethyl Benzene	750	ND			
Xylenes	620	0.8			
Total Vol. Petroleum Hydrocarbon	None	NA			

Detection Limits (ug/l):

Benzene	0.5
Toluene	0.5

Ethyl Benzene 0.5
Xylenes 0.5

Total Vol. Petroleum Hydrocarbons 0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	03/28/95			
Calcium	None	NS			
Magnesium	None	NS			
Potassium	None	NS			
Sodium	None	NS			
Bicarbonate	None	NS			
Chloride	250	NS			
Nitrate (N)	10	NS			
Sulfate	600	NS			

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0
Magnesium	0.1	Chloride	25
Potassium	0.1	Nitrate (N)	0.1
Sodium	5	Sulfate	50

/BTEX602/HTEX602.W02

ND = Not detected
NS = Not sampled
NA = Not analyzed

MW-3D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95
Benzene	10	ND	ND	0.6	ND	ND	ND
Toluene	750	ND	ND	ND	ND	ND	ND
Ethyl Benzene	750	ND	ND	ND	ND	ND	ND
Xylenes	620	ND	ND	ND	ND	ND	ND
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	NA	NA	NA	NA

Detection Limits (ug/l):

Benzene

Toluene

Ethyl Benzene
Xylenes

0.5
0.5
0.5
0.5

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94	09/28/94	12/12/94	03/28/95
Calcium	None	NS	473	460	396	367	NS
Magnesium	None	NS	246	220	224	207	NS
Potassium	None	NS	36	61	21	17	NS
Sodium	None	NS	3830	2760	3230	3210	NS
Bicarbonate	None	NS	468	473	460	464	NS
Chloride	250	NS	4720	6560	4750	4800	NS
Nitrate (N)	10	NS	ND	0.1	ND	0.7	NS
Sulfate	600	NS	2630	2550	2330	2270	NS

Detection Limits (mg/l):

Calcium
Magnesium
Potassium
Sodium

1.0
0.1
0.1
5

Bicarbonate
Chloride
Nitrate (N)
Sulfate

5.0
25
0.1
50

ND = Not detected
NS = Not sampled
NA = Not analyzed

Appendix B

5th Quarter Groundwater Monitoring Data Laboratory Reports

RECEIVED APR 14 1995



CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 950717
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 04/12/95

Linda L. Benkers
Signature

4-12-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



**Environmental Science
and Engineering**
A BCI International Company

B Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 454-9677
FAX: (301) 459-3064

NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

No. 8966

Chain of Custody

Date 3/28/95 Page 1 of 1

CORE LABORATORIES

Lab Name CORE LABORATORIES
Address 10703 East Bethany Drive
Telephone Aurora, CO 80014-2696
303/751-1780

Samplers (SIGNATURES)
D. REECE

Analysis Request

Sample Number	Matrix	Location	
9503280815	H2O	WP-5	
9503280835	H2O	WP-30	
9503280855	H2O	WP-23	
9503280915	H2O	WP-6	
9503270945	H2O	WP-7	
9503271015	H2O	WP-26d	
9503271045	H2O	WP-9	
9503271115	H2O	WP-20	
9503281145	H2O	WP-29	
9503281205	H2O	WP-19	

Project Information		Sample Receipt	Relinquished By	1. Relinquished By	2. Relinquished By	3.
Project	RENEWIC	Total No. of Containers	40	(Signature) <i>DAVID NEE</i>	(Time) <i>3/28/95</i>	(Signature) <i>1,500</i>
Project Director	TRENT	Chain of Custody Seals	01	(Printed Name) <i>DAVID NEE</i>	(Date) <i>3/28/95</i>	(Printed Name) <i>1,500</i>
Charge Code	No. 3031-004	Rec'd Good Condition/Cold	01	(Company) <i>GCL</i>	(Company) <i>GCL</i>	(Company) <i>GCL</i>
Shipping ID. No.		Conforms to Record	01			
Lab No.	950717	Received By		1. Received By	2. Received By	3.
Via:	FED X	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
Special Instructions/Comments:		(Printed Name)	(Printed Name)	(Printed Name)	(Printed Name)	(Laboratory)
		(Company)	(Company)	(Company)	(Company)	



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

April 12, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8966
Core Laboratories Project Number: 950717

Method 8270 Organic Analysis:

Multiple samples on this job displayed low internal standard areas which indicates matrix interference. These samples were reanalyzed diluted with acceptable internal standard areas (see below).

Sample 950717-4 (9503280915) had three internal standards outside method acceptance criteria in the undiluted run. Some of the analytes are being reported from this run as they were below detection limits in the 5x run. All internal standards were within acceptance criteria in the 5x diluted run.

Sample 950717-5 (9503270945) had two internal standards and the surrogate terphenyl outside method acceptance criteria in the undiluted run. Some of the analytes are being reported from the undiluted run as they were below detection limits in the 5x run. All internal standards and surrogates were within acceptance criteria in the 5x diluted run.

Sample 950717-7 (9503271045) had two internal standards-outside method acceptance criteria in the undiluted run. Some of the analytes are being reported from the undiluted run as they were below detection limits in the 10x run. All internal standards were within acceptance criteria in the 10x run.

Sample 950717-9 (9503281145) had one internal standard outside method acceptance criteria in the undiluted run. Some of the analytes are being reported from the undiluted run as they were below detection limits in the 50x run. All internal standards were within acceptance criteria in the 50x run.



CORE LABORATORIES

The spike blank/spike blank duplicate analyzed with this set of samples had the surrogate 2-fluorophenol recoveries outside method acceptance criteria. Reanalysis confirmed the low surrogate recoveries. Other analytes in the spike blank/spike blank duplicate showed poor recoveries indicating an extraction problem occurred with both of these QC samples.

602 GC Analysis for BTEX

The benzene result for sample 950717-4 (9503280915) is flagged with an "E" for an estimated result. The benzene result was at 70 ug/L in the diluted run which is just above the upper calibration limit of 60 ug/L. Past history with this instrument indicates the linearity for benzene continues above 70 ug/L. The sample could not be reanalyzed since all three vials provided were used during previous runs.

A handwritten signature in black ink.

Linda L. Benkers
QA/QC Coordinator

A handwritten signature in black ink.

James H. Travis
Laboratory Supervisor



CORE LABORATORIES

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - This data flag indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - This flag refers the client to an included case narrative for additional information which may be useful in data evaluation.
- I - Used to indicate matrix interference.
- * - Indicates a surrogate recovery that is outside the specified quality control limits.



CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:15
WORK DESCRIPTION...: 9503280815LABORATORY I.D....: 950717-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	04/09/95	JHT
Benzene	4500	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	130	50	ug/L			
Xylenes	ND	50	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	1539	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	24	10	ug/L			
2-Methylnaphthalene	27	10	ug/L			
Naphthalene	73	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	68	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	57	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	121	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	58	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	39	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:15
WORK DESCRIPTION...: 9503280815

LABORATORY I.D....: 950717-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	74 1413 03/31/95	0 0 0	% Recovery	10-123% Limit		

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LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:35
WORK DESCRIPTION...: 9503280835LABORATORY I.D....: 950717-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-30

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/07/95	JHT
Benzene	8.6	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	0.8	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	97	0	% Recovery	89-110% Limit		
Time Analyzed	1828	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	48	10	ug/L			
2-Methylnaphthalene	12	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	95	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	62	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	111	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	77	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	65	0	% Recovery	21-100% Limit		

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L A B O R A T O R Y T E S T S R E S U L T S
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:35
WORK DESCRIPTION...: 9503280835

LABORATORY I.D....: 950717-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-30

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	119 1511 03/31/95	0 0 0	% Recovery	10-123% Limit		

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LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:55
WORK DESCRIPTION...: 9503280855LABORATORY I.D....: 950717-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-23

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/07/95	JHT
Benzene	0.9	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1903	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	78	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	44	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	54	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	60	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	45	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 08:55
WORK DESCRIPTION...: 9503280855

LABORATORY I.D....: 950717-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-23

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	88 1609 03/31/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 09:15
WORK DESCRIPTION...: 9503280915LABORATORY I.D....: 950717-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-6

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*250		602 (6)	04/09/95	JHT
Benzene	17000 E	125	ug/L			
Toluene	ND	125	ug/L			
Ethyl benzene	1400	125	ug/L			
Xylenes	160	125	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	1614	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	160	10	ug/L			
2-Methylnaphthalene	200	50	ug/L			
Naphthalene	290	50	ug/L			
Phenanthrene	20	10	ug/L			
Pyrene	35	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	65	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	56	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	129	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	35	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	58	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 09:15
WORK DESCRIPTION...: 9503280915LABORATORY I.D....: 950717-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-6

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	73	0	% Recovery	10-123% Limit		
Time Analyzed	2056	0				
Date Extracted	03/31/95	0				
semi-Volatile Organic - Surrogates		*5		8270(2)/625(6)	04/09/95	JMC
Nitrobenzene-d5 (Surrogate)	75	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	78	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	57	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	80	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	85	0	% Recovery	10-123% Limit		
Date Extracted	03/31/95	0				
Time Analyzed	2010	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 09:45
WORK DESCRIPTION...: 9503270945LABORATORY I.D....: 950717-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	5	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1320	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	12	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	82	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	57	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	178 *	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	65	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	58	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 09:45
WORK DESCRIPTION...: 9503270945

LABORATORY I.D....: 950717-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	94	0	% Recovery	10-123% Limit		
Time Analyzed	1901	0				
Date Extracted	03/31/95	0				
Semi-Volatile Organic - Surrogates		*5		8270(2)/625(6)	04/09/95	JMC
Nitrobenzene-d5 (Surrogate)	79	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	60	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	64	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	88	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	70	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	65	0	% Recovery	10-123% Limit		
Date Extracted	03/31/95	0				
Time Analyzed	1721	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 10:15
WORK DESCRIPTION...: 9503271015

LABORATORY I.D....: 950717-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-26d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	20	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	16	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1355	0				
PAH AND PHENOLS LIST BY 8270		*5		8270 (2)	04/09/95	JMC
Acenaphthene	ND	50	ug/L			
Acenaphthylene	ND	50	ug/L			
Anthracene	ND	50	ug/L			
Benzo(a)anthracene	ND	50	ug/L			
Benzo(b)fluoranthene	ND	50	ug/L			
Benzo(k)fluoranthene	ND	50	ug/L			
Benzo(ghi)perylene	ND	50	ug/L			
Benzo(a)pyrene	ND	50	ug/L			
Chrysene	ND	50	ug/L			
Dibenzo(a,h)anthracene	ND	50	ug/L			
Fluoranthene	ND	50	ug/L			
Fluorene	ND	50	ug/L			
Indeno(1,2,3-cd)pyrene	ND	50	ug/L			
1-Methylnaphthalene	120	50	ug/L			
2-Methylnaphthalene	ND	50	ug/L			
Naphthalene	ND	50	ug/L			
Phenanthrene	85	50	ug/L			
Pyrene	ND	50	ug/L			
4-Chloro-3-methylphenol	ND	50	ug/L			
2-Chlorophenol	ND	50	ug/L			
2,4-Dichlorophenol	ND	50	ug/L			
2,4-Dimethylphenol	55	50	ug/L			
2,4-Dinitrophenol	ND	250	ug/L			
2-Methyl-4,6-dinitrophenol	ND	250	ug/L			
2-Nitrophenol	ND	50	ug/L			
4-Nitrophenol	ND	250	ug/L			
Pentachlorophenol	ND	250	ug/L			
Phenol	ND	50	ug/L			
2,4,6-Trichlorophenol	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	83	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	90	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	76	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	57	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 10:15
WORK DESCRIPTION...: 9503271015

LABORATORY I.D....: 950717-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-26d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	63	0	% Recovery	10-123% Limit		
Time Analyzed	1107	0				
Date Extracted	03/31/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 10:45
WORK DESCRIPTION...: 9503271045LABORATORY I.D....: 950717-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-9

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*250		602 (6)	04/09/95	JHT
Benzene	6600	125	ug/L			
Toluene	200	125	ug/L			
Ethyl benzene	500	125	ug/L			
Xylenes	1400	125	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1758	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Aceanaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	190	100	ug/L			
2-Methylnaphthalene	250	100	ug/L			
Naphthalene	220	100	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	380	100	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	170	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	12	10	ug/L			
Nitrobenzene-d5 (Surrogate)	63	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	59	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	124	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	81	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	61	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 10:45
WORK DESCRIPTION...: 9503271045

LABORATORY I.D....: 950717-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-9

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	114	0	% Recovery	10-123% Limit		
Time Analyzed	1958	0				
Date Extracted	03/31/95	0				
Semi-Volatile Organic - Surrogates		*10		8270(2)/625(6)	04/09/95	JMC
Nitrobenzene-d5 (Surrogate)	73	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	55	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	91	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	66	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	88	0	% Recovery	10-123% Limit		
Date Extracted	03/31/95	0				
Time Analyzed	1819	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 11:15
WORK DESCRIPTION...: 9503271115LABORATORY I.D....: 950717-0008
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-20

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	04/09/95	JHT
Benzene	1700	25	ug/L			
Toluene	ND	25	ug/L			
Ethyl benzene	ND	25	ug/L			
Xylenes	ND	25	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	1832	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	180	50	ug/L			
2-Methylnaphthalene	220	50	ug/L			
Naphthalene	220	50	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	<10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	58	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	52	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	105	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	80	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	68	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 11:15
WORK DESCRIPTION...: 9503271115

LABORATORY I.D....: 950717-0008
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-20

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	87	0	% Recovery	10-123% Limit		
Time Analyzed	1706	0				
Date Extracted	03/31/95	0				
Semi-Volatile Organic - Surrogates		*5		8270(2)/625(6)	04/09/95	JMC
Nitrobenzene-d5 (Surrogate)	82	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	55	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	54	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	82	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	78	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	66	0	% Recovery	10-123% Limit		
Date Extracted	03/31/95	0				
Time Analyzed	1526	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:45
WORK DESCRIPTION...: 9503281145LABORATORY I.D....: 950717-0009
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-29

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	04/09/95	JHT
Benzene	1900	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	95	50	ug/L			
Xylenes	210	50	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1907	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	70	10	ug/L			
2-Methylnaphthalene	110	10	ug/L			
Naphthalene	160	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	2200	500	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	53	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	52	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	78	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	78	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	69	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:45
WORK DESCRIPTION...: 9503281145LABORATORY I.D....: 950717-0009
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-29

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	92	0	% Recovery	10-123% Limit		
Time Analyzed	1804	0				
Date Extracted	03/31/95	0				
Semivolatile Organic - Surrogates		*50		8270 (2)/625 (6)	04/09/95	JMC
Nitrobenzene-d5 (Surrogate)	74	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	42	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	46	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	73	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	50	0	% Recovery	10-123% Limit		
Date Extracted	03/31/95	0				
Time Analyzed	1623	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:05
WORK DESCRIPTION...: 9503281205LABORATORY I.D....: 950717-0010
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-19

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
02 - VOLATILE AROMATIC ORGANICS		*250		602 (6)	04/09/95	JHT
Benzene	9400	125	ug/L			
Toluene	ND	125	ug/L			
Ethyl benzene	670	125	ug/L			
Xylenes	380	125	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1942	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	75	10	ug/L			
2-Methylnaphthalene	87	10	ug/L			
Naphthalene	120	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	28	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	78	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	59	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	50	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	98	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	54	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	37	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8966
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:05
WORK DESCRIPTION...: 9503281205

LABORATORY I.D....: 950717-0010
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-19

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	90 1316 03/31/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....

DATE SAMPLED..... / /

TIME SAMPLED..... :

WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D...: 950717-0011

DATE RECEIVED....: / /

TIME RECEIVED....: :

REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/09/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1136	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/05/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenz(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	89	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	109	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	31	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	23	0	% Recovery	21-100% Limit		

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LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: METHOD BLANKLABORATORY I.D....: 950717-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	37 1022 03/31/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950717-0012
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/07/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1753	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

DNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 04/05/95 TIME ANALYZED: 09:05 METHOD: 8270 (2)

QC NUMBER: 325940

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		1120	1	0	0	
Date Extracted	SBD		1218	1	0	0	
	SB		03/31/95	1	0	0	
	SBD		03/31/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 04/05/95 TIME ANALYZED: 09:05 METHOD: 8270 (2)

QC NUMBER: 325940

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	SB	B940331A	1	15	143	10	10	ug/L
	SBD	B940331A	1	41	143	29	10	ug/L
2-Chlorophenol	SB	B940331A	1	11	143	8	10	ug/L
	SBD	B940331A	1	26	143	18	10	ug/L
1,4-Dichlorobenzene	SB	B940331A	1	91	143	64	10	ug/L
	SBD	B940331A	1	102	143	71	10	ug/L
N-Nitrosodi-n-propylamine	SB	B940331A	1	106	143	74	10	ug/L
	SBD	B940331A	1	115	143	80	10	ug/L
1,2,4-Trichlorobenzene	SB	B940331A	1	98	143	69	10	ug/L
	SBD	B940331A	1	107	143	75	10	ug/L
4-Chloro-3-methylphenol	SB	B940331A	1	36	143	25	10	ug/L
	SBD	B940331A	1	73	143	51	10	ug/L
Acenaphthene	SB	B940331A	1	123	143	86	10	ug/L
	SBD	B940331A	1	129	143	90	10	ug/L
4-Nitrophenol	SB	B940331A	1	1	143	1	50	ug/L
	SBD	B940331A	1	31	143	22	50	ug/L
2,4-Dinitrotoluene	SB	B940331A	1	6	143	4	10	ug/L
	SBD	B940331A	1	133	143	93	10	ug/L
Pentachlorophenol	SB	B940331A	1	2	143	1	50	ug/L
	SBD	B940331A	1	17	143	12	50	ug/L
Pyrene	SB	B940331A	1	158	143	110	10	ug/L
	SBD	B940331A	1	172	143	120	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	66	100	66	0	35-114% Limit
	SBD	B940331A	1	90	100	90	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	68	100	68	0	43-116% Limit
	SBD	B940331A	1	71	100	71	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	103	100	103	0	33-141% Limit
	SBD	B940331A	1	112	100	112	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	10	100	10	0	10-94% Limit
	SBD	B940331A	1	28	100	28	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	3	100	3	0	21-100% Limit
	SBD	B940331A	1	14	100	14	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	11	100	11	0	10-123% Limit
	SBD	B940331A	1	22	100	22	0	10-123% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

NA SPIKED ANALYSIS-WATER

DATE ANALYZED: 04/09/95 TIME ANALYZED: 12:12 METHOD: 8270 (2)

QC NUMBER: 325942

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		1330	1	0	0	
Date Extracted	SBD		1428	1	0	0	
	SB		03/31/95	1	0	0	
	SBD		03/31/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

BNA SPIKED ANALYSIS-WATER DATE ANALYZED: 04/09/95 TIME ANALYZED: 12:12 METHOD: 8270 (2) QC NUMBER:325942

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	57	100	57	0	35-114% Limit
	SBD	B940331A	1	74	100	74	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	69	100	69	0	43-116% Limit
	SBD	B940331A	1	65	100	65	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	92	100	92	0	33-141% Limit
	SBD	B940331A	1	85	100	85	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	16	100	16	0	10-94% Limit
	SBD	B940331A	1	39	100	39	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	5	100	5	0	21-100% Limit
	SBD	B940331A	1	20	100	20	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	10	100	10	0	10-123% Limit
	SBD	B940331A	1	20	100	20	0	10-123% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT

04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/10/95 TIME ANALYZED: 00:00 METHOD: 602 (6)

QC NUMBER: 325959

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD		0420 0455	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

02 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 04/10/95 TIME ANALYZED: 00:00 METHOD: 602 (6) QC NUMBER: 325959

R E F E R E N C E S T A N D A R D S

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950409A	1	19.3	20.0	97	0.5	ug/L
	SBD	T950409A	1	20.1	20.0	101	0.5	ug/L
Toluene	SB	T950409A	1	19.4	20.0	97	0.5	ug/L
	SBD	T950409A	1	20.2	20.0	101	0.5	ug/L
Ethyl benzene	SB	T950409A	1	19.3	20.0	97	0.5	ug/L
	SBD	T950409A	1	20.0	20.0	100	0.5	ug/L
Stylenes	SB	T950409A	1	60.4	60.0	101	0.5	ug/L
	SBD	T950409A	1	62.6	60.0	104	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950409A	1	104	100	104	0	89-110% Limit
	SBD	T950409A	1	102	100	102	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/07/95 TIME ANALYZED: 16:08 METHOD: 602 (6)

QC NUMBER: 325962

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		1643	1	0	0	
	SBD		1718	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/12/95

JOB NUMBER: 950717 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 04/07/95 TIME ANALYZED: 16:08 METHOD: 602 (6) QC NUMBER: 325962

REF E R E N C E S T A N D A R D S

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950407A	1	20.0	20.0	100	0.5	ug/L
	SBD	T950407A	1	19.1	20.0	96	0.5	ug/L
Toluene	SB	T950407A	1	20.5	20.0	102	0.5	ug/L
	SBD	T950407A	1	19.4	20.0	97	0.5	ug/L
Ethyl benzene	SB	T950407A	1	20.9	20.0	104	0.5	ug/L
	SBD	T950407A	1	19.6	20.0	98	0.5	ug/L
Xylenes	SB	T950407A	1	66.1	60.0	110	0.5	ug/L
	SBD	T950407A	1	62.1	60.0	103	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950407A	1	104	100	104	0	89-110% Limit
	SBD	T950407A	1	105	100	105	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of Organic Compounds In Drinking Water, December 1988
- (8) U.S.G.S. Methods For The Determination Of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985
- (9) Federal Register, Friday, June 7, 1991, (40 CFR Parts 141 and 142)
- (10) Standard Methods For The Examination Of Water And Wastewater, 16th Edition, 1985
- (11) ASTM, Section 11 Water And Environmental Technology, Volume 11.01 Water (1), 1991
- (12) Methods Of Soil Analysis, American Society Of Agronomy, Agronomy No. 9, 1965
- (13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990
- (14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal and Coke
- (15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978
- (16) ASTM, Part 19, Soils and Rock; Building Stones, 1981

Comments: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due To Value(s) Lower Than The Detection Limit.

Blank QC Sample Identification

- MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

Reference Standard QC Sample Identification

- LGS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard
CCV Continuing Calibration Verification Standard
ISA/ISB ICP Interference Check Samples

Spike QC Sample Identification

- MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion Spike

Duplicate QC Sample Identification

- MD Method (Matrix) Duplicate
ED Extraction Duplicate
DO Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

Subcontract Laboratory

- Core Laboratories - Anaheim, CA
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Houston, TX

Code

- * AN
* CA
* CC
* HP

Subcontract Laboratory

- Core Laboratories - Lake Charles, LA
Core Laboratories - Long Beach, CA
Other Subcontract Laboratories

Code

- * LC
* LB
* XX

10703 East Bethany Drive
Aurora, CO 80014
(303) 751-1780



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CORE LABORATORIES

**CORE LABORATORIES
ANALYTICAL REPORT**

Job Number: 950714
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 04/05/95

Linda L. Benkers
Signature

4-5-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



GCL

*Environmental Science
and Engineering*

AFRA International Company

Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

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4221 Forbes Blvd., Ste. 240
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(301) 459-9677
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NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5245

Chain of Custody

Date 3/28/95 Page 1 of 1

Special Instructions/Comments:



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

April 4, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8965
Core Laboratories Project Number: 950714

Method 8270 Organic Analysis:

Due to a matrix interference present in sample 9503281235 (Core ID 950714-1), dilutions were necessary to bring the internal standards into method control. Percent surrogate recoveries were acceptable for the diluted reanalyses.

Linda L. Benkers
QA/QC Coordinator

Douglas Georgic
Laboratory Supervisor



CORE LABORATORIES

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - This data flag indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - This flag refers the client to an included case narrative for additional information which may be useful in data evaluation.
- I - Used to indicate matrix interference.
- * - Indicates a surrogate recovery that is outside the specified quality control limits.



CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:35
WORK DESCRIPTION...: 9503281235LABORATORY I.D....: 950714-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-27d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	03/30/95	DMJ
Benzene	950	25	ug/L			
Toluene	30	25	ug/L			
Ethyl benzene	250	25	ug/L			
Xylenes	370	25	ug/L			
4-Bromofluorobenzene (Surrogate)	110	0	% Recovery	89-110% Limit		
Time Analyzed	2155	0				
PAH AND PHENOLS LIST BY 8270		*10		8270 (2)	04/01/95	JMC
Acenaphthene	ND	100	ug/L			
Acenaphthylene	ND	100	ug/L			
Anthracene	ND	100	ug/L			
Benzo(a)anthracene	ND	100	ug/L			
Benzo(b)fluoranthene	ND	100	ug/L			
Benzo(k)fluoranthene	ND	100	ug/L			
Benzo(ghi)perylene	ND	100	ug/L			
Benzo(a)pyrene	ND	100	ug/L			
Chrysene	ND	100	ug/L			
Dibenz(a,h)anthracene	ND	100	ug/L			
Fluoranthene	ND	100	ug/L			
Fluorene	ND	100	ug/L			
Indeno(1,2,3-cd)pyrene	ND	100	ug/L			
1-Methylnaphthalene	160	100	ug/L			
2-Methylnaphthalene	120	100	ug/L			
Naphthalene	ND	100	ug/L			
Phenanthrene	ND	100	ug/L			
Pyrene	ND	100	ug/L			
4-Chloro-3-methylphenol	ND	100	ug/L			
2-Chlorophenol	ND	100	ug/L			
2,4-Dichlorophenol	ND	100	ug/L			
2,4-Dimethylphenol	6000	400	ug/L			
2,4-Dinitrophenol	ND	500	ug/L			
2-Methyl-4,6-dinitrophenol	ND	500	ug/L			
2-Nitrophenol	ND	100	ug/L			
4-Nitrophenol	ND	500	ug/L			
Pentachlorophenol	ND	500	ug/L			
Phenol	ND	100	ug/L			
2,4,6-Trichlorophenol	ND	100	ug/L			
Nitrobenzene-d5 (Surrogate)	79	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	105	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	37	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	65	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:35
WORK DESCRIPTION...: 9503281235LABORATORY I.D....: 950714-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-27d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	77	0	% Recovery	10-123% Limit		
Time Analyzed	2127	0				
Date Extracted	03/30/95	0				
Semi-Volatile Organic - Surrogates		*40		8270(2)/625(6)	04/01/95	JMC
Nitrobenzene-d5 (Surrogate)	93	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	81	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	94	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	21	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	27	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	79	0	% Recovery	10-123% Limit		
Date Extracted	03/30/95	0				
Time Analyzed	1536	0				

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LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 13:05
WORK DESCRIPTION...: 9503281305

LABORATORY I.D....: 950714-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-18

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	03/30/95	DMJ
4-Bromofluorobenzene (Surrogate) Time Analyzed	79* 0239	0 0	% Recovery	89-110% Limit		
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	03/30/95	DMJ
Benzene	76	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	14	5	ug/L			
Xylenes	8	5	ug/L			
4-Bromofluorobenzene (Surrogate) Time Analyzed	78* 2114	0 0	% Recovery	89-110% Limit		
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	52	10	ug/L			
2-Methylnaphthalene	66	10	ug/L			
Naphthalene	60	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			

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LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 13:05
WORK DESCRIPTION...: 9503281305LABORATORY I.D....: 950714-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-18

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	70	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	94	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	37	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	46	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	109	0	% Recovery	10-123% Limit		
Time Analyzed	1917	0				
Date Extracted	03/30/95	0				

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LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 13:35
WORK DESCRIPTION...: 9503281335LABORATORY I.D....: 950714-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	2033	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenz(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	69	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	32	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	39	0	% Recovery	21-100% Limit		

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LABORATORY TESTS RESULTS 04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8965
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 13:35
WORK DESCRIPTION...: 9503281335

LABORATORY I.D....: 950714-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	101 1819 03/30/95	0 0 0	% Recovery	10-123% Limit		

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LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANKLABORATORY I.D....: 950714-0004
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1219	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenz(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	57	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	57	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	21	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	36	0	% Recovery	21-100% Limit		

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LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950714-0004
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	71 1621 03/30/95	0 0 0	% Recovery	10-123% Limit		

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LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950714 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950714-0005
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/29/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	1501	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950714

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS DATE ANALYZED: 03/31/95 TIME ANALYZED: 15:03 METHOD: 8270 (2) QC NUMBER:325399

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	RS		1720	1	0	0	
Date Extracted	RS		03/30/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950714

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS DATE ANALYZED: 03/31/95 TIME ANALYZED: 15:03 METHOD: 8270 (2)

QC NUMBER: 325399

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Acenaphthene	RS	950145	1	29	41	71	10	ug/L
Anthracene	RS	950145	1	67	74	91	10	ug/L
Benzo(b)fluoranthene	RS	950145	1	58	73	79	10	ug/L
Bis(2-ethylhexyl)phthalate	RS	950145	1	34	35	97	10	ug/L
Chrysene	RS	950145	1	92	114	81	10	ug/L
2-Benzofuran	RS	950145	1	47	64	73	10	ug/L
,2-Dichlorobenzene	RS	950145	1	10	25	40	10	ug/L
,4-Dichlorobenzene	RS	950145	1	12	32	38	10	ug/L
2,4-Dinitrotoluene	RS	950145	1	106	129	82	10	ug/L
Fluorene	RS	950145	1	106	148	72	10	ug/L
Phthalalene	RS	950145	1	32	57	56	10	ug/L
Phenanthrene	RS	950145	1	21	23	91	10	ug/L
Pyrene	RS	950145	1	28	31	90	10	ug/L
,1,2,4-Trichlorobenzene	RS	950145	1	54	130	42	10	ug/L
Nitrobenzene-d5 (Surrogate)	RS	950145	1	65	100	65	0	35-114% Limit
-Fluorobiphenyl (Surrogate)	RS	950145	1	65	100	65	0	43-116% Limit
-Terphenyl-d14 (Surrogate)	RS	950145	1	89	100	89	0	33-141% Limit
Phenol-d6 (Surrogate)	RS	950145	1	25	100	25	0	10-94% Limit
-Fluorophenol (Surrogate)	RS	950145	1	40	100	40	0	21-100% Limit
,4,6-Tribromophenol (Surrogate)	RS	950145	1	78	100	78	0	10-123% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT 04/05/95

JOB NUMBER: 950714

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 03/29/95 TIME ANALYZED: 14:21 METHOD: 602 (6)

QC NUMBER: 325424

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		1826	1	0	0	
	SBD		1907	1	0	0	

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Certification

PriorityPollutnT™/CLP Quality Control Standards

Organics in Water
Catalog No. PP- 41

Lot No. 561

Parameter	Certified Value	Performance Acceptance Limits™
VOLATILES (Catalog No. 710)	µg/l	µg/l
Benzene	50.0	36.7 - 62.0
Bromodichloromethane	44.8	34.5 - 56.0
Bromoform	85.5	62.3 - 110
Carbon tetrachloride	143	103 - 182
Chlorobenzene	42.0	32.1 - 50.8
Dibromochloromethane	137	104 - 170
1,2-Dichlorobenzene	69.3	52.6 - 83.9
1,4-Dichlorobenzene	112	85.1 - 139
1,2-Dichloroethane	74.4	57.4 - 93.0
Ethylbenzene	17.9	13.2 - 22.2
Methylene chloride	49.5	33.6 - 65.8
4-Methyl-2-pentanone	27.9	16.0 - 38.8
1,1,1,2-Tetrachloroethane	52.3	35.9 - 66.4
Tetrachloroethylene	41.4	30.2 - 50.5
Toluene	72.6	56.0 - 87.8
1,1,1-Trichloroethane	67.3	47.1 - 80.8
Trichloroethylene	57.2	42.5 - 69.2
o-Xylene	29.1	17.9 - 37.5
BASE/NEUTRALS (Catalog No. 711)	µg/l	µg/l
Acenaphthene ACENAP	41.1	15.0 - 45.6
Anthracene ANATHR	73.8	34.5 - 85.8
Benzo(b)fluoranthene BOFLUR	72.7	25.2 - 91.6
Chrysene CHRYSE	114	52.8 - 139
Dibenzofuran D8FURA	64.0	30.7 - 73.6
1,2-Dichlorobenzene 1,2 DCB	24.9	6.55 - 28.1
1,4-Dichlorobenzene 1,4 DCB	32.0	11.1 - 35.8
2,4-Dinitrotoluene 24DNTD	129	47.0 - 154
bis(2-Ethyhexyl)phthalate B2 EHPH	35.2	13.6 - 45.1
Fluorene FLUORE	148	72.0 - 180
Naphthalene NAPTH	56.7	22.1 - 65.8
Phenanthrene PHENAN	23.2	11.7 - 26.4
Pyrene PYREN	31.2	13.8 - 39.6
1,2,4-Trichlorobenzene 124TCB	130	42.0 - 153
ACIDS (Catalog No. 712)	µg/l	µg/l
4-Chloro-3-methylphenol	48.6	25.0 - 55.4
2-Chlorophenol	88.3	39.0 - 98.9
2,4-Dichlorophenol	105	45.3 - 118
2,4-Dimethylphenol	164	55.6 - 200
2-Methylphenol	105	32.1 - 125
Pentachlorophenol	128	39.9 - 161
Phenol	73.8	7.53 - 89.3
2,4,6-Trichlorophenol	87.8	38.5 - 98.3

continued on back





CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of Organics Compounds In Drinking Water, December 1988
- (8) U.S.G.S. Methods For The Determination Of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985
- (9) Federal Register, Friday, June 7, 1991, (40 CFR Parts 141 and 142)
- (10) Standard Methods For The Examination Of Water And Wastewater, 16th Edition, 1985
- (11) ASTM, Section 11 Water And Environmental Technology, Volume 11.01 Water (1), 1991
- (12) Methods Of Soil Analysis, American Society Of Agronomy, Agronomy No. 9, 1965
- (13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990
- (14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal and Coke
- (15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978
- (16) ASTM, Part 19, Soils and Rock; Building Stones, 1981

Comments: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due To Value(s) Lower Than The Detection Limit.

Blank QC Sample Identification

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank
<u>Reference Standard QC Sample Identification</u>	
LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Samples

Spike QC Sample Identification

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
<u>Duplicate QC Sample Identification</u>	
SB	Spiked Blank
SBD	Spiked Blank Duplicate
MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

<u>Subcontract Laboratory</u>	<u>Code</u>
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Houston, TX	* HP

<u>Subcontract Laboratory</u>	<u>Code</u>
Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Other Subcontract Laboratories	* XX

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CORE LABORATORIES

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CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 950716
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 04/13/95

Linda L. Benkers
Signature

4-13-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



Environmental Science
and Engineering
A BDM International Company

No 8968

Chain of Custody

Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3054

NASA/WSTF
PO Drawer NM
Las Cruces, NM 88004-
(505) 524-5353
FAX: (505) 524-5315

Date 3/28/95 Page 1 of 1

Lab Name		CORE LABORATORIES		Analysis Request											
Address		10703 East Bethany Drive													
Telephone		Aurora, CO 80014-2696													
Samplers (SIGNATURES)		<u>Linda Lou Tracy</u>													
Sample Number	Matrix	Location													
9503280930	WATER	US MW-12 ✓ RIVER													
9503281000	"	MW-3S ✓													
9503281030	"	MW-3D ✓													
9503281040	"	DS MW3D ✓ RIVER													
9503281100	"	MW-6S ✓													
9503281110	"	MW-8S ✓													
9503281120	"	MW-6D ✓													
9503281130	"	MW-8D ✓													
9503281140	"	DS MW-6D ✓ RIVER													
9503281200	"	MW-9S ✓													
Project Information				Sample Receipt								Relinquished By			
Project	Ref No. 2	Total No. of Containers	36	Received By								2. Relinquished By			
Project Director	Thomas S	Chain of Custody Seals	91C	Linda Lou Tracy 03/28/95								(Time) (Signature)			
Charge Code	No. 3-31-006	Rec'd Good Condition/Cold	91C	03/28/95								(Printed Name) (Date)			
Shipping ID No.		Conforms to Record	91C	03/28/95								(Company)			
Lab No.	950716	Received By									3. Received By (Laboratory)				
Via:	Fed X	Signature	(Signature)								(Time) (Signature)				
Special Instructions/Comments:		(Printed Name)	(Printed Name)								(Date) (Printed Name)				
		(Company)	(Company)								(Laboratory)				

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

April 13, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8968
Core Laboratories Project Number: 950716

Method 8270 Organic Analysis:

On the reference standard analyzed with this set of samples, the surrogate 2-fluorobiphenyl was low at 38% with method acceptance criteria set at 43%. All other surrogates, internal standards, and analytes were within acceptable limits.

Linda L. Benkers
QA/QC Coordinator

James H. Travis
Laboratory Supervisor



CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 09:30
WORK DESCRIPTION...: 9503280930LABORATORY I.D....: 950716-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: US MW-12

TEST DESCRIPTION	FINAL RESULT	LIMITS/DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/09/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	2344	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 10:00
WORK DESCRIPTION...: 9503281000

LABORATORY I.D....: 950716-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	0018	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	72	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	49	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	85	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	46	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	28	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 10:00
WORK DESCRIPTION...: 9503281000

LABORATORY I.D....: 950716-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	43 1346 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 10:30
WORK DESCRIPTION...: 9503281030LABORATORY I.D...: 950716-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
02 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	0053	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	74	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	72	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	54	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 10:30
WORK DESCRIPTION...: 9503281030

LABORATORY I.D....: 950716-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	63 1447 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 10:40
WORK DESCRIPTION...: 9503281040

LABORATORY I.D....: 950716-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: DSMW3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	0127	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:00
WORK DESCRIPTION...: 9503281100LABORATORY I.D....: 950716-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-6S

TEST. DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST. METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	110	5	ug/L			
Toluene	7	5	ug/L			
Ethyl benzene	32	5	ug/L			
Xylenes	43	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	2051	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	85	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	54	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	99	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	41	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	38	0	% Recovery	21-100% Limit		

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(303) 751-1780

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:00
WORK DESCRIPTION...: 9503281100

LABORATORY I.D....: 950716-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	52 1549 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:10
WORK DESCRIPTION...: 9503281110

LABORATORY I.D....: 950716-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-8S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	110	5	ug/L			
Toluene	7	5	ug/L			
Ethyl benzene	31	5	ug/L			
Xylenes	44	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	2125	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	67	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	50	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	65	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	54	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	50	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:10
WORK DESCRIPTION...: 9503281110

LABORATORY I.D....: 950716-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-8S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	53	0	% Recovery	10-123% Limit		
Time Analyzed	1650	0				
Date Extracted	04/02/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:20
WORK DESCRIPTION...: 9503281120LABORATORY I.D....: 950716-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0202	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	68	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	97	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	59	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	33	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:20
WORK DESCRIPTION...: 9503281120

LABORATORY I.D....: 950716-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	16 1751 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:30
WORK DESCRIPTION...: 9503281130LABORATORY I.D....: 950716-0008
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-8D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	0237	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 11:40
WORK DESCRIPTION...: 9503281140LABORATORY I.D....: 950716-0009
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: DSMW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	0311	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:00
WORK DESCRIPTION...: 9503281200LABORATORY I.D....: 950716-0010
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/10/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	0346	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	68	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	51	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	101	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	69	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8968
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 12:00
WORK DESCRIPTION...: 9503281200

LABORATORY I.D....: 950716-0010
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	72 1853 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANKLABORATORY I.D....: 950716-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
02 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/09/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1136	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	74	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	48	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	89	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	76	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	75	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....

LABORATORY I.D....: 950716-0011

DATE SAMPLED.....: / /

DATE RECEIVED....: / /

TIME SAMPLED.....: :

TIME RECEIVED....: :

WORK DESCRIPTION...: METHOD BLANK

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	76 1245 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS DATE ANALYZED: 04/10/95 TIME ANALYZED: 09:55 METHOD: 8270 (2) QC NUMBER: 325938

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Chlorophenol	RS	950146	1	30	42	71	10	ug/L
2,4-Dimethylphenol	RS	950146	1	61	125	49	10	ug/L
o-Cresol (2-Methylphenol)	RS	950146	1	47	111	42	10	ug/L
Pentachlorophenol	RS	950146	1	21	57	37	50	ug/L
Phenol	RS	950146	1	41	90	46	10	ug/L
2,4,6-Trichlorophenol	RS	950146	1	67	131	51	10	ug/L
Nitrobenzene-d5 (Surrogate)	RS	950146	1	46	100	46	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	RS	950146	1	38	100	38	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	RS	950146	1	89	100	89	0	33-141% Limit
Phenol-d6 (Surrogate)	RS	950146	1	44	100	44	0	10-94% Limit
2-Fluorophenol (Surrogate)	RS	950146	1	35	100	35	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	RS	950146	1	64	100	64	0	10-123% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950716 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 04/10/95 TIME ANALYZED: 00:00 METHOD: 602 (6) QC NUMBER: 325959

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		0420	1	0	0	
	SBD		0455	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950716

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/10/95 TIME ANALYZED: 00:00 METHOD: 602 (6)

QC NUMBER: 325959

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950409A	1	19.3	20.0	97	0.5	ug/L
Toluene	SBD	T950409A	1	20.1	20.0	101	0.5	ug/L
Ethyl benzene	SB	T950409A	1	19.4	20.0	97	0.5	ug/L
Methylenes	SBD	T950409A	1	20.2	20.0	101	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950409A	1	19.3	20.0	97	0.5	ug/L
	SBD	T950409A	1	20.0	20.0	100	0.5	ug/L
	SB	T950409A	1	60.4	60.0	101	0.5	ug/L
	SBD	T950409A	1	62.6	60.0	104	0.5	ug/L
	SB	T950409A	1	104	100	104	0	89-110% Limit
	SBD	T950409A	1	102	100	102	0	89-110% Limit

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Certification

PriorityPollutnT™/CLP Quality Control Standards

Organics in Water
Catalog No. PP-41

Lot No. 562

Parameter	Certified Value	Performance Acceptance Limits™
VOLATILES (Catalog No. 710)	µg/l	µg/l
Benzene	34.8	26.9 - 43.2
Bromodichloromethane	24.7	19.0 - 30.9
Bromoform	44.0	32.1 - 56.8
Carbon tetrachloride	110	79.1 - 140
Chlorobenzene	129	98.6 - 156
Chloroform	74.1	55.9 - 91.1
Chlorodibromomethane	60.5	45.7 - 75.0
1,2-Dichlorobenzene	60.4	45.8 - 73.1
1,3-Dichlorobenzene	81.1	60.6 - 98.9
1,4-Dichlorobenzene	129	98.0 - 160
1,2-Dichloroethane	52.5	40.5 - 65.6
Ethylbenzene	58.9	43.5 - 73.0
Methylene chloride	23.4	15.9 - 31.1
4-Methyl-2-pentanone (MIBK)	141	81.1 - 196
Tetrachloroethylene	30.1	21.9 - 36.7
Toluene	127	97.9 - 154
1,1,1-Trichloroethane	18.4	12.9 - 22.1
Trichloroethylene	58.3	43.3 - 70.5
BASE/NEUTRALS (Catalog No. 711)	µg/l	µg/l
Acenaphthylene	64.3	29.8 - 73.3
Anthracene	29.1	13.6 - 33.8
4-Bromophenyl-phenylether	90.8	42.8 - 109
Chrysene	48.1	22.3 - 58.7
Dibenzofuran	111	53.3 - 128
1,2-Dichlorobenzene	38.0	9.99 - 42.9
2,4-Dinitrotoluene	79.0	28.8 - 94.0
bis(2-Ethylhexyl)phthalate	142	54.7 - 182
Fluoranthene	121	52.3 - 163
Iso phorone	140	61.2 - 161
Naphthalene	24.7	9.61 - 28.7
N-Nitroso-di-n-propylamine	73.1	38.6 - 89.9
Pyrene	74.2	32.7 - 94.2
1,2,4-Trichlorobenzene	60.9	19.7 - 71.9
ACIDS (Catalog No. 712)	µg/l	µg/l
2-Chlorophenol 2-CLPHEN	42.0	18.1 - 47.0
2,4-Dimethylphenol 2,4DMMPH	125	42.4 - 153
2-Methylphenol 2-MPHEN	111	34.0 - 132
Pentachlorophenol PENTCL	56.8	17.7 - 71.6
Phenol PHENOL	89.9	9.17 - 109
2,4,6-Trichlorophenol 246 TCP	131	57.4 - 147

continued on back





CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of Organics Compounds In Drinking Water, December 1988
- (8) U.S.G.S. Methods For The Determination Of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985
- (9) Federal Register, Friday, June 7, 1991, (40 CFR Parts 141 and 142)
- (10) Standard Methods For The Examination Of Water And Wastewater, 16th Edition, 1985
- (11) ASTM, Section 11 Water And Environmental Technology, Volume 11.01 Water (1), 1991
- (12) Methods Of Soil Analysis, American Society Of Agronomy, Agronomy No. 9, 1965
- (13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990
- (14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal and Coke
- (15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978
- (16) ASTM, Part 19, Soils and Rock; Building Stones, 1981

Comments: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due To Value(s) Lower Than The Detection Limit.

Blank QC Sample Identification

- MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

Reference Standard QC Sample Identification

- LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard
CCV Continuing Calibration Verification Standard
ISA/ISB ICP Interference Check Samples

Spike QC Sample Identification

- MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion Spike

Spiked Blank

- SBD Spiked Blank Duplicate
Duplicate QC Sample Identification
MD Method (Matrix) Duplicate
ED Extraction Duplicate
DD Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

Subcontract Laboratory

- Core Laboratories - Anaheim, CA
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Houston, TX

Code

- * AN
* CA
* CC
* HP

Subcontract Laboratory

- Core Laboratories - Lake Charles, LA
Core Laboratories - Long Beach, CA
Other Subcontract Laboratories

Code

- * LC
* LB
* XX

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(303) 751-1780



CORE LABORATORIES

12

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 950715
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 04/05/95

Linda L. Benkers
Signature

4-5-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator

GCL

✓ Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0505

Mid Atlantic
4221 Forbes
Lanham, MD
(301) 459-96
FAX: (301) 4

NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX (505) 524-5045

No 8964

Chain of Custody

Date 3/27/95 Page 1 of 1

Lab Name: COBE LABORATORIES

Lab Name SCRE ENDOCRINOLOGY
Address 10703 East Bethany Drive

Telephone 303/751-1780
Aurora, CO 80014-2696

Samplers (SIGNATURES)

३३६

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

April 6, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8964
Core Laboratories Project Number: 950715

Method 8270 Organic Analysis:

Due to a matrix interference present in samples 9503271605, 9503271625, 9503271725 (Core IDs 950715-2,3,6), dilutions were necessary to bring the internal standards into control and the target analytes into the range of calibration. All QA/QC was acceptable for these samples.

Linda L. Benkers
QA/QC Coordinator

James H. Travis
Laboratory Supervisor



CORE LABORATORIES

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - This data flag indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - This flag refers the client to an included case narrative for additional information which may be useful in data evaluation.
- I - Used to indicate matrix interference.
- * - Indicates a surrogate recovery that is outside the specified quality control limits.



CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:45
WORK DESCRIPTION...: 9503271545LABORATORY I.D....: 950715-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-24

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	03/29/95	DMJ
Benzene	160	10	ug/L			
Toluene	ND	10	ug/L			
Ethyl benzene	ND	10	ug/L			
Xylenes	ND	10	ug/L			
4-Bromofluorobenzene (Surrogate)	96	0	% Recovery	89-110% Limit		
Time Analyzed	2029	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	57	10	ug/L			
2-Methylnaphthalene	32	10	ug/L			
Naphthalene	19	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	79	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	78	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	92	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	32	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	50	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTODIAN: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:45
WORK DESCRIPTION...: 9503271545LABORATORY I.D....: 950715-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-24

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	99 2016 03/30/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:05
WORK DESCRIPTION...: 9503271605LABORATORY I.D....: 950715-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	03/30/95	DMJ
Benzene	5300	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	100	50	ug/L			
Xylenes	100	50	ug/L			
4-Bromofluorobenzene (Surrogate)	91	0	% Recovery	89-110% Limit		
Time Analyzed	2237	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/01/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	40	10	ug/L			
2-Methylnaphthalene	59	10	ug/L			
Naphthalene	73	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	78	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	83	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	79	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	99	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	44	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	48	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:05
WORK DESCRIPTION...: 9503271605

LABORATORY I.D...: 950715-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	111 0010 03/30/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:25
WORK DESCRIPTION...: 9503271625

LABORATORY I.D....: 950715-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST-METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	03/31/95	DMJ
Benzene	ND	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	26	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	1546	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/01/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	48	10	ug/L			
2-Methylnaphthalene	39	10	ug/L			
Naphthalene	14	10	ug/L			
Phenanthrene	28	10	ug/L			
Pyrene	24	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	37	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	90	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	87	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	141	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	41	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	48	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:25
WORK DESCRIPTION...: 9503271625

LABORATORY I.D....: 950715-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	100 0207 03/30/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:45
WORK DESCRIPTION...: 9503271645LABORATORY I.D...: 950715-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-3

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	0524	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	82	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	72	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	91	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	36	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:45
WORK DESCRIPTION...: 9503271645

LABORATORY I.D...: 950715-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-3

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	107 2115 03/30/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:05
WORK DESCRIPTION...: 9503271705

LABORATORY I.D....: 950715-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	03/31/95	DMJ
Benzene	500	25	ug/L			
Toluene	320	25	ug/L			
Ethyl benzene	72	25	ug/L			
Xylenes	110	25	ug/L			
4-Bromofluorobenzene (Surrogate)	99	0	% Recovery	89-110% Limit		
Time Analyzed	0324	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	19	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	3200	200	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	58	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	100	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	35	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:05
WORK DESCRIPTION...: 9503271705

LABORATORY I.D...: 950715-0005
DATE RECEIVED...: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	107	0	% Recovery	10-123% Limit		
Time Analyzed	2312	0				
Date Extracted	03/30/95	0				
Semivolatile Organic - Surrogates		*20		8270 (2)/625 (6)	04/01/95	JMC
Nitrobenzene-d5 (Surrogate)	92	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	98	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	120	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	47	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	87	0	% Recovery	10-123% Limit		
Date Extracted	03/30/95	0				
Time Analyzed	1832	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:25
WORK DESCRIPTION...: 9503271725

LABORATORY I.D....: 950715-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	03/31/95	DMJ
Benzene	300	5	ug/L			
Toluene	14	5	ug/L			
Ethyl benzene	25	5	ug/L			
Xylenes	45	5	ug/L			
4-Bromofluorobenzene (Surrogate)	90	0	% Recovery	89-110% Limit		
Time Analyzed	0446	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/01/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	36	10	ug/L			
2-Methylnaphthalene	33	10	ug/L			
Naphthalene	26	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	1200	100	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	126 *	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	54	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	190 *	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	35	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	46	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:25
WORK DESCRIPTION...: 9503271725

LABORATORY I.D....: 950715-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	84	0	% Recovery	10-123% Limit		
Time Analyzed	0305	0				
Date Extracted	03/30/95	0				
Semi-Volatile Organic - Surrogates		*10		8270(2)/625(6)	04/01/95	JMC
Nitrobenzene-d5 (Surrogate)	90	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	67	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	101	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	38	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	72	0	% Recovery	10-123% Limit		
Date Extracted	03/30/95	0				
Time Analyzed	1930	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:45
WORK DESCRIPTION...: 9503271745LABORATORY I.D...: 950715-0007
DATE RECEIVED...: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-22

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	03/30/95	DMJ
Benzene	1800	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	88	50	ug/L			
Xylenes	ND	50	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	0117	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	22	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	79	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	98	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	39	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8964
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 17:45
WORK DESCRIPTION...: 9503271745

LABORATORY I.D...: 950715-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: WP-22

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	80 2213 03/30/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED.... / /
TIME SAMPLED.... :
WORK DESCRIPTION.... METHOD BLANKLABORATORY I.D....: 950715-0008
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/29/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	1501	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	03/31/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	57	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	57	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	21	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	36	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950715-0008
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	71 1621 03/30/95	0 0 0	% Recovery	10-123% Limit		

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LABORATORY TESTS RESULTS
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950715-0009
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	03/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1219	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 03/30/95 TIME ANALYZED: 11:38 METHOD: 602 (6)

QC NUMBER: 325251

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	MS		1300	1	0	0	
	MSD		1342	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 03/30/95 TIME ANALYZED: 11:38 METHOD: 602 (6)

QC NUMBER: 325251

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	950715-4	1	23.2	0	20.0	116	0.5	ug/L
	MSD	950715-4	1	21.6	0	20.0	108	0.5	ug/L
Toluene	MS	950715-4	1	23.6	0	20.0	118	0.5	ug/L
	MSD	950715-4	1	21.5	0	20.0	108	0.5	ug/L
Ethyl benzene	MS	950715-4	1	23.2	0	20.0	116	0.5	ug/L
	MSD	950715-4	1	21.1	0	20.0	106	0.5	ug/L
Xylenes	MS	950715-4	1	68.7	0	60.0	114	0.5	ug/L
	MSD	950715-4	1	62.3	0	60.0	104	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	MS	950715-4	1	108	0	100	108	0	89-110% Limit
	MSD	950715-4	1	103	0	100	103	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 03/29/95 TIME ANALYZED: 14:21 METHOD: 602 (6) QC NUMBER:325252

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD		1826 1907	1 1	0 0	0 0	

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QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 03/29/95 TIME ANALYZED: 14:21 METHOD: 602 (6) QC NUMBER: 325252

R E F E R E N C E S T A N D A R D S

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950329B	1	21.9	20.0	110	0.5	ug/L
	SBD	T950329B	1	21.5	20.0	108	0.5	ug/L
Toluene	SB	T950329B	1	21.6	20.0	108	0.5	ug/L
	SBD	T950329B	1	21.2	20.0	106	0.5	ug/L
Ethyl benzene	SB	T950329B	1	21.9	20.0	110	0.5	ug/L
	SBD	T950329B	1	21.5	20.0	108	0.5	ug/L
Xylenes	SB	T950329B	1	64.4	60.0	107	0.5	ug/L
	SBD	T950329B	1	63.5	60.0	106	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950329B	1	102	100	102	0	89-110% Limit
	SBD	T950329B	1	102	100	102	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 03/31/95 TIME ANALYZED: 13:42 METHOD: 602 (6) QC NUMBER:325256

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD		1708 1749	1 1	0 0	0 0	

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QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS DATE ANALYZED: 03/31/95 TIME ANALYZED: 15:03 METHOD: 8270 (2) QC NUMBER:325399

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	RS		1720	1	0	0	
Date Extracted	RS		03/30/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/05/95

JOB NUMBER: 950715

CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS

DATE ANALYZED: 03/31/95 TIME ANALYZED: 15:03 METHOD: 8270 (2)

QC NUMBER: 325399

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Acenaphthene	RS	950145	1	29	41	71	10	ug/L
Anthracene	RS	950145	1	67	74	91	10	ug/L
Benzo(b)fluoranthene	RS	950145	1	58	73	79	10	ug/L
Bis(2-ethylhexyl)phthalate	RS	950145	1	34	35	97	10	ug/L
Chrysene	RS	950145	1	92	114	81	10	ug/L
Cibenzofuran	RS	950145	1	47	64	73	10	ug/L
,2-Dichlorobenzene	RS	950145	1	10	25	40	10	ug/L
1,4-Dichlorobenzene	RS	950145	1	12	32	38	10	ug/L
2,4-Dinitrotoluene	RS	950145	1	106	129	82	10	ug/L
Fluorene	RS	950145	1	106	148	72	10	ug/L
Naphthalene	RS	950145	1	32	57	56	10	ug/L
Phenanthrene	RS	950145	1	21	23	91	10	ug/L
Pyrene	RS	950145	1	28	31	90	10	ug/L
,2,4-Trichlorobenzene	RS	950145	1	54	130	42	10	ug/L
nitrobenzene-d5 (Surrogate)	RS	950145	1	65	100	65	0	35-114% Limit
-Fluorobiphenyl (Surrogate)	RS	950145	1	65	100	65	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	RS	950145	1	89	100	89	0	33-141% Limit
Phenol-d6 (Surrogate)	RS	950145	1	25	100	25	0	10-94% Limit
-Fluorophenol (Surrogate)	RS	950145	1	40	100	40	0	21-100% Limit
,4,6-Tribromophenol (Surrogate)	RS	950145	1	78	100	78	0	10-123% Limit

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Certification

Priority PollutnT™/CLP Quality Control Standards

Organics in Water
Catalog No. PP- 41

Lot No. 561

Parameter	Certified Value	Performance Acceptance Limits™
VOLATILES (Catalog No. 710)	µg/l	µg/l
Benzene	50.0	36.7 - 62.0
Bromodichloromethane	44.8	34.5 - 56.0
Bromoform	85.5	62.3 - 110
Carbon tetrachloride	143	103 - 182
Chlorobenzene	42.0	32.1 - 50.8
Dibromochloromethane	137	104 - 170
1,2-Dichlorobenzene	69.3	52.6 - 83.9
1,4-Dichlorobenzene	112	85.1 - 139
1,2-Dichloroethane	74.4	57.4 - 93.0
Ethylbenzene	17.9	13.2 - 22.2
Methylene chloride	49.5	33.6 - 65.8
4-Methyl-2-pentanone	27.9	16.0 - 38.8
1,1,1,2-Tetrachloroethane	52.3	35.9 - 66.4
Tetrachloroethylene	41.4	30.2 - 50.5
Toluene	72.6	56.0 - 87.8
1,1,1-Trichloroethane	67.3	47.1 - 80.8
Trichloroethylene	57.2	42.5 - 69.2
o-Xylene	29.1	17.9 - 37.5
BASE/NEUTRALS (Catalog No. 711)	µg/l	µg/l
Acenaphthene ACENAP	41.1	15.0 - 45.6
Anthracene ANATHR	73.8	34.5 - 65.6
Benz(b)fluoranthene BBFLUR	72.7	25.2 - 91.6
Chrysene CHRYSE	114	52.8 - 139
Dibenzofuran DBFURA	64.0	30.7 - 73.6
1,2-Dichlorobenzene 12 DCB	24.9	6.55 - 28.1
1,4-Dichlorobenzene 14 DCB	32.0	11.1 - 35.8
2,4-Dinitrotoluene 24 DNTD	129	47.0 - 154
bis(2-Ethylhexyl)phthalate B2 EHPH	35.2	13.6 - 45.1
Fluorene FLUORE	146	72.0 - 180
Naphthalene NAPTH	56.7	22.1 - 65.8
Phenanthrene PHENAN	23.2	11.7 - 28.4
Pyrene PYREN	31.2	13.8 - 39.6
1,2,4-Trichlorobenzene 124TCB	130	42.0 - 153
ACIDS (Catalog No. 712)	µg/l	µg/l
4-Chloro-3-methylphenol	48.6	25.0 - 55.4
2-Chlorophenol	88.3	38.0 - 98.9
2,4-Dichlorophenol	105	45.3 - 118
2,4-Dimethylphenol	164	55.6 - 200
2-Methylphenol	105	32.1 - 125
Pentachlorophenol	128	39.9 - 161
Phenol	73.8	7.53 - 89.3
2,4,6-Trichlorophenol	87.8	38.5 - 98.3

continued on back





CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1988
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of Organic Compounds In Drinking Water, December 1988
- (8) U.S.G.S. Methods For The Determination Of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985
- (9) Federal Register, Friday, June 7, 1991, (40 CFR Parts 141 and 142)
- (10) Standard Methods For The Examination Of Water And Wastewater, 16th Edition, 1985
- (11) ASTM, Section 11 Water And Environmental Technology, Volume 11.01 Water (1), 1991
- (12) Methods Of Soil Analysis, American Society Of Agronomy, Agronomy No. 9, 1965
- (13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990
- (14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal and Coke
- (15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978
- (16) ASTM, Part 19, Soils and Rock; Building Stones, 1981

Comments: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due To Value(s) Lower Than The Detection Limit.

Blank QC Sample Identification

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank
<u>Reference Standard QC Sample Identification</u>	
LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Samples

Spike QC Sample Identification

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate
<u>Duplicate QC Sample Identification</u>	
MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

<u>Subcontract Laboratory</u>	<u>Code</u>	<u>Subcontract Laboratory</u>	<u>Code</u>
Core Laboratories - Anaheim, CA	* AN	Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Casper, WY	* CA	Core Laboratories - Long Beach, CA	* LB
Core Laboratories - Corpus Christi, TX	* CC	Other Subcontract Laboratories	* XX
Core Laboratories - Houston, TX	* HP		

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(303) 751-1780



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3

CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 950718
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 04/13/95

Linda L. Benkers
Signature

4-13-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



Environmental Science
and Engineering
ABDI International Company

Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3064

NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

No 8398

Chain of Custody

Date 3/28/95 Page 1 of 1

Lab Name CORE LABORATORIES		Project Reference		Sample Receipt		Relinquished By		2. Relinquished By		3. Relinquished By	
Address	10703 East Bethany Drive	Sample Number	Matrix	Location		Sample Received	By	Signature	Time	Signature	Time
Aurora, CO	80014-2696	9503271200	Agarous	MW-4	✓	1503271200	By Linda Lou Tracy	Linda Lou Tracy	1503271200	By Linda Lou Tracy	1503271200
Telephone	303/751-1780	9503271230	"	MW-5	✓	9503271230	By Linda Lou Tracy	Linda Lou Tracy	9503271230	By Linda Lou Tracy	9503271230
Samplers (SIGNATURES)	Linda Lou Tracy	9503271300	"	MW-7	✓	9503271300	By Linda Lou Tracy	Linda Lou Tracy	9503271300	By Linda Lou Tracy	9503271300
		9503271330	"	MW-8	✓	9503271330	By Linda Lou Tracy	Linda Lou Tracy	9503271330	By Linda Lou Tracy	9503271330
		9503271500	"	MW-11	✓	9503271500	By Linda Lou Tracy	Linda Lou Tracy	9503271500	By Linda Lou Tracy	9503271500
		9503271520	"	MW-16	✓	9503271520	By Linda Lou Tracy	Linda Lou Tracy	9503271520	By Linda Lou Tracy	9503271520
		9503271550	"	MW-14	✓	9503271550	By Linda Lou Tracy	Linda Lou Tracy	9503271550	By Linda Lou Tracy	9503271550
		9503271620	"	MW-15	✓	9503271620	By Linda Lou Tracy	Linda Lou Tracy	9503271620	By Linda Lou Tracy	9503271620
		9503281700	"	TRIP BLANK	✓	9503281700	By Linda Lou Tracy	Linda Lou Tracy	9503281700	By Linda Lou Tracy	9503281700
Project Information		Total No. of Containers		1. Relinquished By		2. Relinquished By		3. Relinquished By			
Project	Receiv	Total No. of Containers	3	Relinquished By	Linda Lou Tracy	Received By	By	Signature	Time	Signature	Time
Project Director	Z. T. Thomas	Chain of Custody Seals	OK	Received By	By Linda Lou Tracy	By	Printed Name	Date	Printed Name	Date	
Charge Code No.	3031.006	Rec'd Good Condition/Cold	OK	Received By	By Linda Lou Tracy	By	Printed Name	Date	Printed Name	Date	
Shipping ID. No.		Conforms to Record	OK	Received By	By Linda Lou Tracy	By	Printed Name	Date	Printed Name	Date	
Lab No.	950718	Lab No.	950718	Received By	By Linda Lou Tracy	By	Printed Name	Date	Printed Name	Date	
Via:	FEQ-X	Special Instructions/Comments:		Received By	By Linda Lou Tracy	By	Printed Name	Date	Printed Name	Date	



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

April 13, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8398
Core Laboratories Project Number: 950718

Method 8270 Organic Analysis:

On the reference standard analyzed with this set of samples, the surrogate 2-fluorobiphenyl was low at 38% with method acceptance criteria set at 43%. All other surrogates, internal standards, and analytes were within acceptable limits.

Linda L. Benkers
QA/QC Coordinator

James H. Travis
Laboratory Supervisor



CORE LABORATORIES

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - This data flag indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - This flag refers the client to an included case narrative for additional information which may be useful in data evaluation.
- I - Used to indicate matrix interference.
- * - Indicates a surrogate recovery that is outside the specified quality control limits.



CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 12:00
WORK DESCRIPTION...: 9503271200

LABORATORY I.D...: 950718-0001
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	220	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	6	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	1211	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 12:30
WORK DESCRIPTION...: 9503271230LABORATORY I.D....: 950718-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	04/08/95	JHT
Benzene	4700	50	ug/L			
Toluene	100	50	ug/L			
Ethyl benzene	70	50	ug/L			
Xylenes	280	50	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	0527	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	65	10	ug/L			
2-Methylnaphthalene	15	10	ug/L			
Naphthalene	37	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	40	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	77	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	83	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	13	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	31	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 12:30
WORK DESCRIPTION...: 9503271230LABORATORY I.D....: 950718-0002
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	0 *	0	% Recovery	10-123% Limit		
Time Analyzed	1309	0				
Date Extracted	04/02/95	0				
Semi-Volatile Organic - Surrogates		*1		8270(2)/625(6)	04/10/95	JMC
Nitrobenzene-d5 (Surrogate)	42	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	78	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	85	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	13	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	31	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	0 *	0	% Recovery	10-123% Limit		
Date Extracted	04/02/95	0				
Time Analyzed	1856	0				

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LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 13:00
WORK DESCRIPTION...: 9503271300

LABORATORY I.D....: 950718-0003
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/08/95	JHT
Benzene	100	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	0601	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 13:30
WORK DESCRIPTION...: 9503271330LABORATORY I.D....: 950718-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/08/95	JHT
Benzene	67	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	0636	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	71	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	63	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	70	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	67	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		

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LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 13:30
WORK DESCRIPTION...: 9503271330

LABORATORY I.D....: 950718-0004
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	86 1407 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:00
WORK DESCRIPTION...: 9503271500

LABORATORY I.D....: 950718-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*250		602 (6)	04/09/95	JHT
Benzene	14000	125	ug/L			
Toluene	ND	125	ug/L			
Ethyl benzene	ND	125	ug/L			
Xylenes	1100	125	ug/L			
4-Bromofluorobenzene (Surrogate)	99	0	% Recovery	89-110% Limit		
Time Analyzed	1505	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	50	10	ug/L			
2-Methylnaphthalene	42	10	ug/L			
Naphthalene	88	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	87	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	94	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	49	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	54	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	59	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	53	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:00
WORK DESCRIPTION...: 9503271500

LABORATORY I.D....: 950718-0005
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	55 1504 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:20
WORK DESCRIPTION...: 9503271520LABORATORY I.D...: 950718-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	04/09/95	JHT
Benzene	15	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	2016	0				
AH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibeno(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	94	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	98	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	76	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	33	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	26	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:20
WORK DESCRIPTION...: 9503271520

LABORATORY I.D....: 950718-0006
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	83 1602 04/02/95	0 0 0	% Recovery	10-123% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 15:50
WORK DESCRIPTION...: 9503271550

LABORATORY I.D....: 950718-0007
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/07/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	99	0	% Recovery	89-110% Limit		
Time Analyzed	2341	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/27/95
TIME SAMPLED....: 16:20
WORK DESCRIPTION...: 9503271620

LABORATORY I.D....: 950718-0008
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	04/08/95	JHT
Benzene	1100	25	ug/L			
Toluene	ND	25	ug/L			
Ethyl benzene	25	25	ug/L			
Xylenes	ND	25	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	0745	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	28	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	79	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	68	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	82	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	69	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8398
DATE SAMPLED....: 03/28/95
TIME SAMPLED....: 17:00
WORK DESCRIPTION...: 9503281700

LABORATORY I.D....: 950718-0010
DATE RECEIVED....: 03/29/95
TIME RECEIVED....: 10:15
REMARKS.....: TRIP BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/05/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1328	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED.... / /
TIME SAMPLED.... :
WORK DESCRIPTION...: METHOD BLANKLABORATORY I.D...: 950718-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/09/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1136	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	04/10/95	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	52	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	73	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	69	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950718-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	82	0	% Recovery	10-123% Limit		
Time Analyzed	1113	0				
Date Extracted	04/02/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS

04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 950718-0012
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/07/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1753	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....
DATE SAMPLED.... / /
TIME SAMPLED.... :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D...: 950718-0014
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	04/05/95	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	1247	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS

DATE ANALYZED: 04/10/95 TIME ANALYZED: 09:55 METHOD: 8270 (2)

QC NUMBER: 325938

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	RS		1211	1	0	0	
Date Extracted	RS		04/02/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

8270 - BASE/NEUTRAL/ACID ORGANICS DATE ANALYZED: 04/10/95 TIME ANALYZED: 09:55 METHOD: 8270 (2) QC NUMBER: 325938

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Chlorophenol	RS	950146	1	30	42	71	10	ug/L
2,4-Dimethylphenol	RS	950146	1	61	125	49	10	ug/L
o-Cresol (2-Methylphenol)	RS	950146	1	47	111	42	10	ug/L
Pentachlorophenol	RS	950146	1	21	57	37	50	ug/L
Phenol	RS	950146	1	41	90	46	10	ug/L
2,4,6-Trichlorophenol	RS	950146	1	67	131	51	10	ug/L
Nitrobenzene-d5 (Surrogate)	RS	950146	1	46	100	46	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	RS	950146	1	38	100	38	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	RS	950146	1	89	100	89	0	33-141% Limit
Phenol-d6 (Surrogate)	RS	950146	1	44	100	44	0	10-94% Limit
2-Fluorophenol (Surrogate)	RS	950146	1	35	100	35	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	RS	950146	1	64	100	64	0	10-123% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/10/95 TIME ANALYZED: 00:00 METHOD: 602 (6)

QC NUMBER: 325959

B L A N K S

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		0420	1	0	0	
	SBD		0455	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 04/07/95 TIME ANALYZED: 16:08 METHOD: 602 (6) QC NUMBER: 325962

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD		1643 1718	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS DATE ANALYZED: 04/07/95 TIME ANALYZED: 16:08 METHOD: 602 (6)

QC NUMBER: 325962

R E F E R E N C E S T A N D A R D S

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950407A	1	20.0	20.0	100	0.5	ug/L
	SBD	T950407A	1	19.1	20.0	96	0.5	ug/L
Toluene	SB	T950407A	1	20.5	20.0	102	0.5	ug/L
	SBD	T950407A	1	19.4	20.0	97	0.5	ug/L
Ethyl benzene	SB	T950407A	1	20.9	20.0	104	0.5	ug/L
	SBD	T950407A	1	19.6	20.0	98	0.5	ug/L
Xylenes	SB	T950407A	1	66.1	60.0	110	0.5	ug/L
	SBD	T950407A	1	62.1	60.0	103	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950407A	1	104	100	104	0	89-110% Limit
	SBD	T950407A	1	105	100	105	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/05/95 TIME ANALYZED: 12:05 METHOD: 602 (6)

QC NUMBER: 326245

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	0029 04/06 0110 04/06	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT
04/13/95

JOB NUMBER: 950718

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 04/05/95 TIME ANALYZED: 12:05 METHOD: 602 (6)

QC NUMBER: 326245

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950405A	1	21.9	20.0	110	0.5	ug/L
	SBD	T950405A	1	22.2	20.0	111	0.5	ug/L
Toluene	SB	T950405A	1	22.3	20.0	112	0.5	ug/L
	SBD	T950405A	1	22.7	20.0	114	0.5	ug/L
Ethyl benzene	SB	T950405A	1	22.4	20.0	112	0.5	ug/L
	SBD	T950405A	1	23.0	20.0	115	0.5	ug/L
Xylenes	SB	T950405A	1	66.3	60.0	110	0.5	ug/L
	SBD	T950405A	1	67.5	60.0	112	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950405A	1	110	100	110	0	89-110% Limit
	SBD	T950405A	1	110	100	110	0	89-110% Limit

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Certification

PriorityPollutnT™/CLP Quality Control Standards

Organics in Water
Catalog No. PP- 41

Lot No. 562

Parameter	Certified Value	Performance Acceptance Limits™
VOLATILES (Catalog No. 710)	µg/l	µg/l
Benzene	34.8	26.9 - 43.2
Bromodichloromethane	24.7	19.0 - 30.9
Bromoform	44.0	32.1 - 56.8
Carbon tetrachloride	110	79.1 - 140
Chlorobenzene	129	98.6 - 156
Chloroform	74.1	55.9 - 91.1
Chlorodibromomethane	60.5	45.7 - 75.0
1,2-Dichlorobenzene	60.4	45.8 - 73.1
1,3-Dichlorobenzene	81.1	60.6 - 98.9
1,4-Dichlorobenzene	129	98.0 - 160
1,2-Dichloroethane	52.5	40.5 - 65.6
Ethylbenzene	58.9	43.5 - 73.0
Methylene chloride	23.4	15.9 - 31.1
4-Methyl-2-pentanone (MIBK)	141	81.1 - 196
Tetrachloroethylene	30.1	21.9 - 36.7
Toluene	127	97.9 - 154
1,1,1-Trichloroethane	18.4	12.9 - 22.1
Trichloroethylene	58.3	43.3 - 70.5
BASE/NEUTRALS (Catalog No. 711)	µg/l	µg/l
Acenaphthylene	64.3	29.8 - 73.3
Anthracene	29.1	13.6 - 33.8
4-Bromophenyl-phenylether	90.8	42.8 - 109
Chrysene	48.1	22.3 - 58.7
Dibenzofuran	111	53.3 - 128
1,2-Dichlorobenzene	38.0	9.99 - 42.9
2,4-Dinitrotoluene	79.0	28.8 - 94.0
bis(2-Ethylhexyl)phthalate	142	54.7 - 182
Fluoranthene	121	52.3 - 163
Isophorone	140	61.2 - 161
Naphthalene	24.7	9.61 - 28.7
N-Nitroso-di-n-propylamine	73.1	36.6 - 89.9
Pyrene	74.2	32.7 - 94.2
1,2,4-Trichlorobenzene	60.9	19.7 - 71.9
ACIDS (Catalog No. 712)	µg/l	µg/l
2-Chlorophenol 2 CLPHE	42.0	18.1 - 47.0
2,4-Dimethylphenol 24DMPH	125	42.4 - 153
2-Methylphenol 2MPHEN	111	34.0 - 132
Pentachlorophenol PENTCL	56.8	17.7 - 71.6
Phenol PHENOL	89.9	9.17 - 109
2,4,6-Trichlorophenol 246 TCP	131	57.4 - 147

continued on back





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QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of Organics Compounds In Drinking Water, December 1988
- (8) U.S.G.S. Methods For The Determination Of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985
- (9) Federal Register, Friday, June 7, 1991, (40 CFR Parts 141 and 142)
- (10) Standard Methods For The Examination Of Water And Wastewater, 16th Edition, 1985
- (11) ASTM, Section 11 Water And Environmental Technology, Volume 11.01 Water (1), 1991
- (12) Methods Of Soil Analysis, American Society Of Agronomy, Agronomy No. 9, 1965
- (13) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, Revision 1, November 1990
- (14) ASTM, Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal and Coke
- (15) EPA 600/2-78-054, Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978
- (16) ASTM, Part 19, Soils and Rock; Building Stones, 1981

Comments: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical ranges.

The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis. Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

NC = Not Calculable Due To Value(s) Lower Than The Detection Limit.

Blank QC Sample Identification

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

Reference Standard QC Sample Identification

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard
CCV Continuing Calibration Verification Standard
ISA/ISB ICP Interference Check Samples

Spike QC Sample Identification

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion Spike

SB Spiked Blank
SBD Spiked Blank Duplicate
Duplicate QC Sample Identification
MD Method (Matrix) Duplicate
ED Extraction Duplicate
DD Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

<u>Subcontract Laboratory</u>	<u>Code</u>
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Houston, TX	* HP

<u>Subcontract Laboratory</u>	<u>Code</u>
Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Other Subcontract Laboratories	* XX

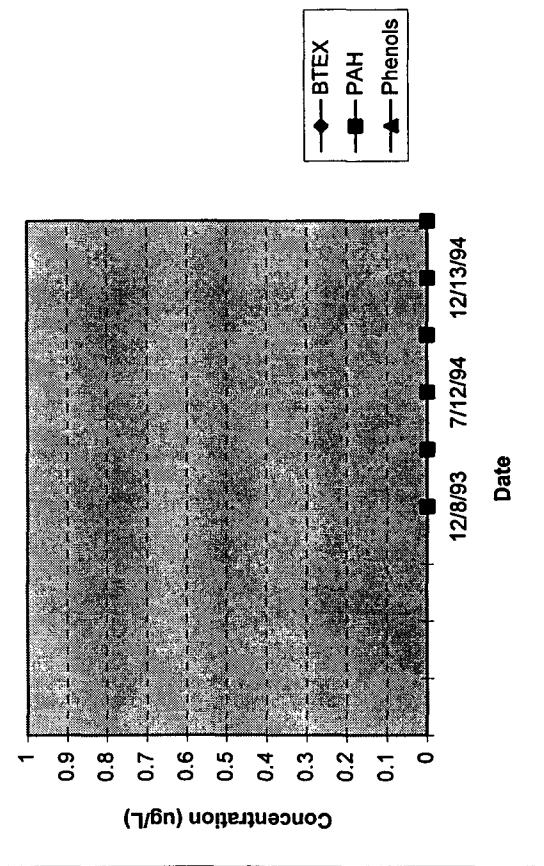
10703 East Bethany Drive
Aurora, CO 80014
(303) 751-1780

Appendix C

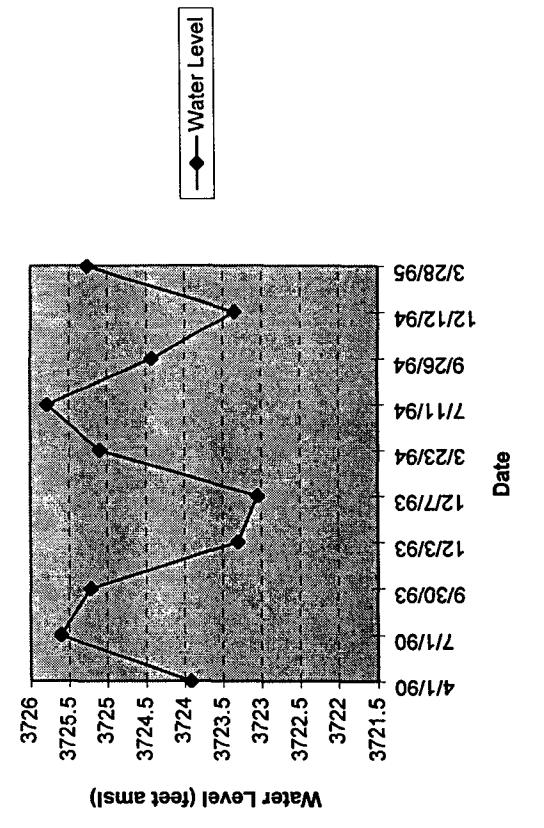
Groundwater Monitoring Data
Concentration vs. Time Plots

MW-3D	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3723.92				
	7/1/90	3725.6				
	9/30/93	3725.22				
	12/3/93	3723.3				
	12/7/93	3723.05	12/8/93	0	0	0
	3/23/94	3725.1	3/23/94	0	0	0
	7/11/94	3725.78	7/12/94	0	0	0
	9/26/94	3724.42	9/28/94	0	0	0
	12/12/94	3723.35	12/13/94	0	0	0
	3/28/95	3725.26	3/28/95	0	0	0

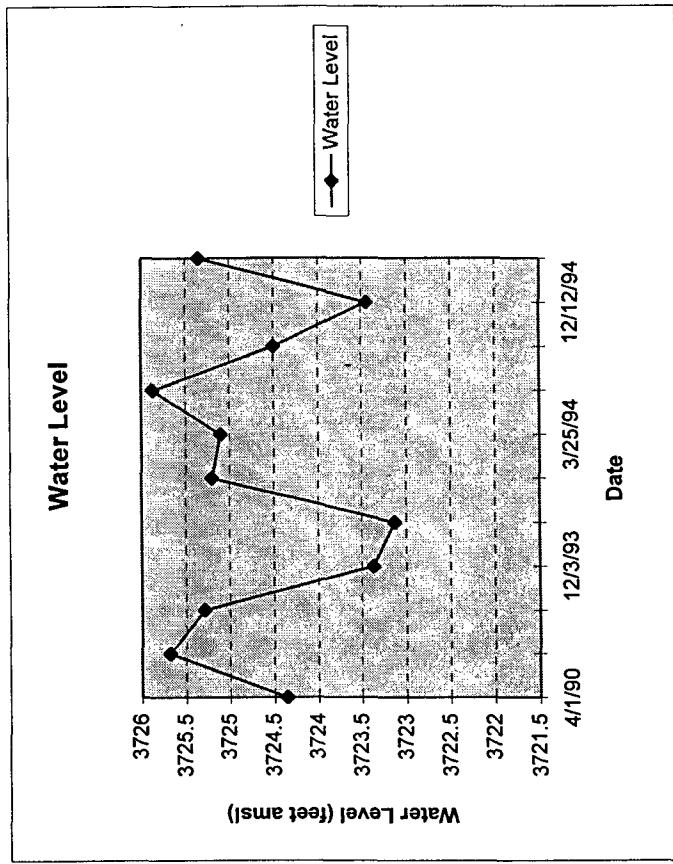
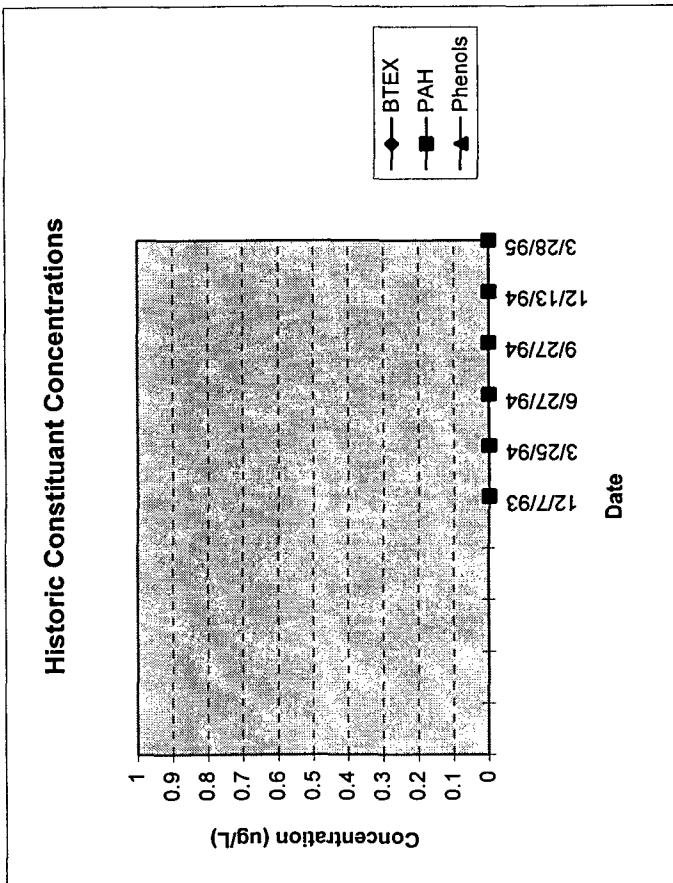
Historic Constituent Concentrations



Water Level

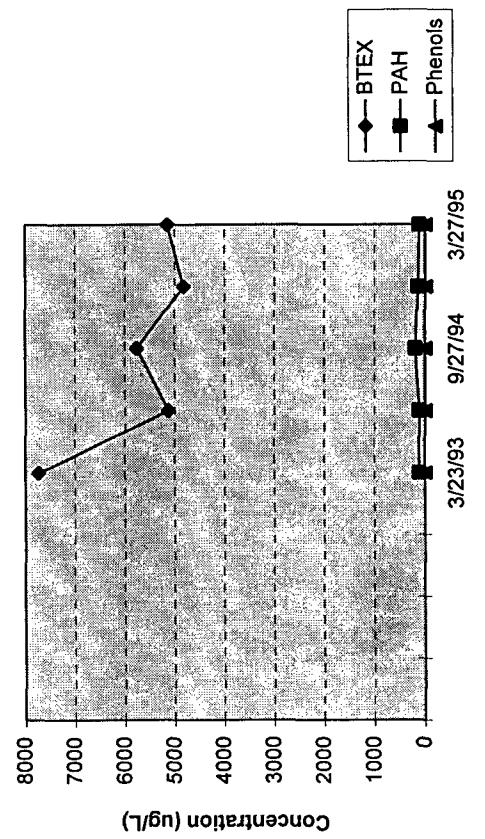


MW-3S	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.36				
	7/1/90	3725.68				
	9/30/93	3725.29				
	12/3/93	3723.37				
	12/7/93	3723.13				
	3/23/94	3725.2	12/7/93	0	0	
	3/25/94	3725.1	3/25/94	0	0	
	7/11/94	3725.87	6/27/94	0	0	
	9/26/94	3724.5	9/27/94	0	0	
	12/12/94	3723.44	12/13/94	0	0	
	3/27/95	3725.35	3/28/95	0	0	

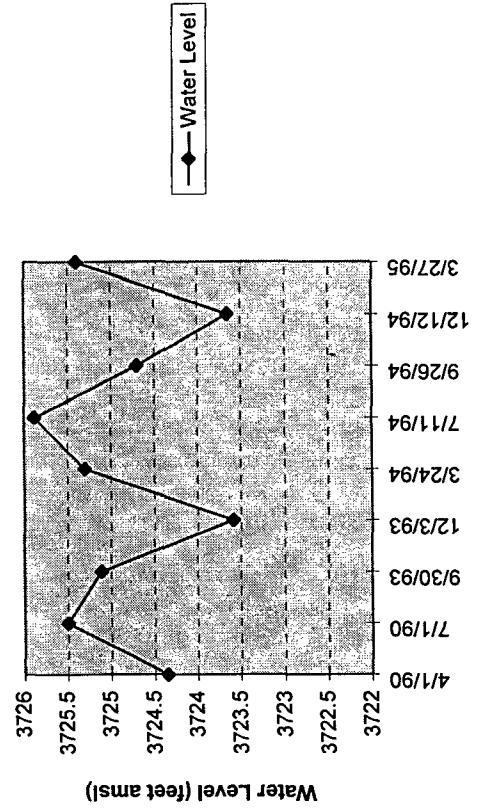


MW-5	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.35				
	7/1/90	3725.5				
	9/30/93	3725.11				
	12/3/93	3723.59				
	3/24/94	3725.3	3/23/93	7733	107	0
	7/11/94	3725.88	6/27/94	5130	117	0
	9/26/94	3724.7	9/27/94	5760	191	0
	12/12/94	3723.65	12/13/94	4824	139	0
	3/27/95	3725.4	3/27/95	5150	117	0

Historic Constituent Concentrations

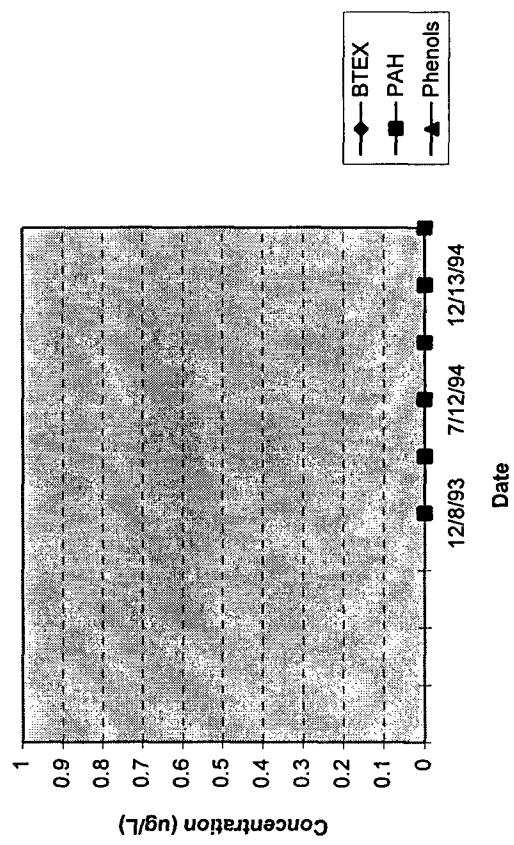


Water Level

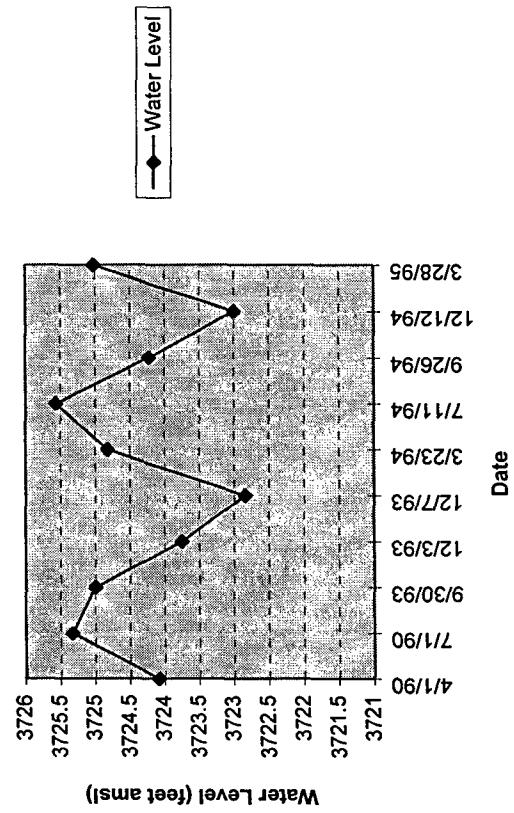


MW-6D	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.08				
	7/1/90	3725.33				
	9/30/93	3725				
	12/3/93	3723.75				
	12/7/93	3722.84	12/8/93	0	0	0
	3/23/94	3724.82	3/23/94	0	0	0
	7/11/94	3725.57	7/12/94	0	0	0
	9/26/94	3724.22	9/28/94	0	0	0
	12/12/94	3723	12/13/94	0	0	0
	3/28/95	3725.02	3/28/95	0	0	0

Historic Constituent Concentrations

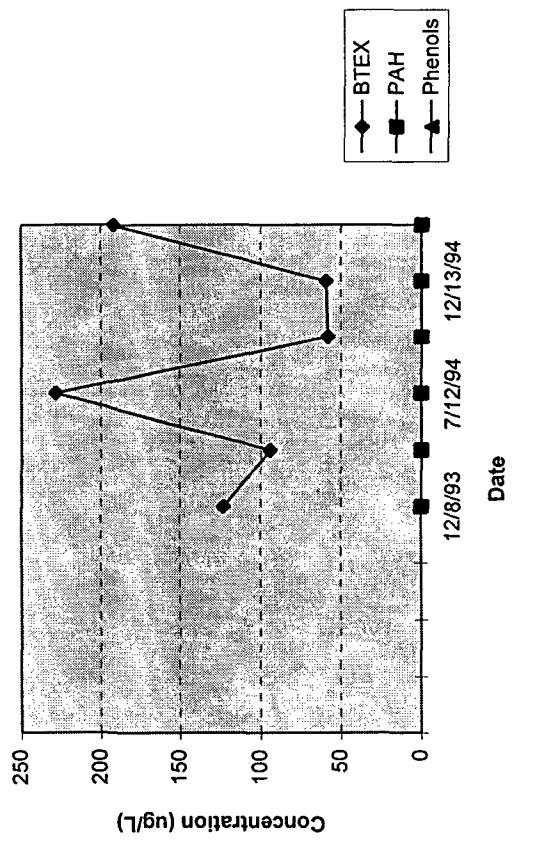


Water Level

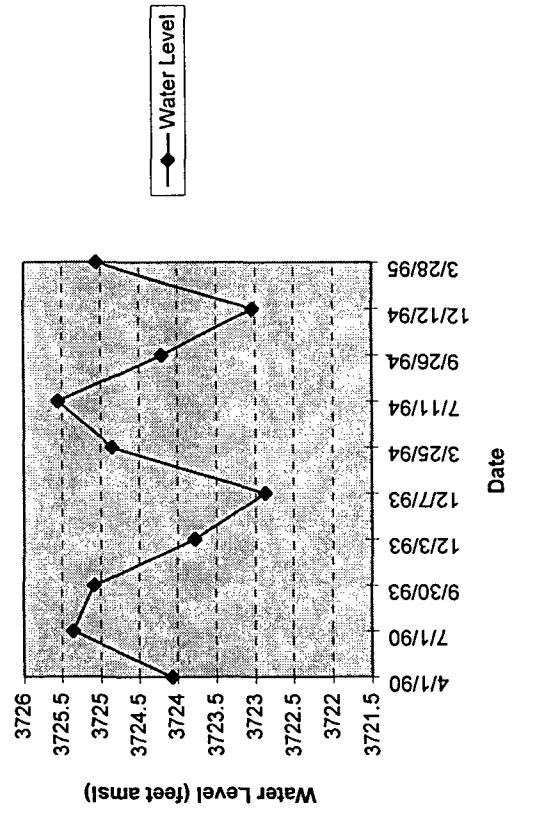


MW-6S	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.07				
	7/1/90	3725.35				
	9/30/93	3725.08				
	12/3/93	3723.78				
	12/7/93	3722.87	12/8/93	123	0	0
	3/25/94	3724.85	3/25/94	94	0	0
	7/11/94	3725.55	7/12/94	228	0	0
	9/26/94	3724.2	9/28/94	58	0	0
	12/12/94	3723.03	12/13/94	59	0	0
	3/28/95	3725.05	3/28/95	192	0	0

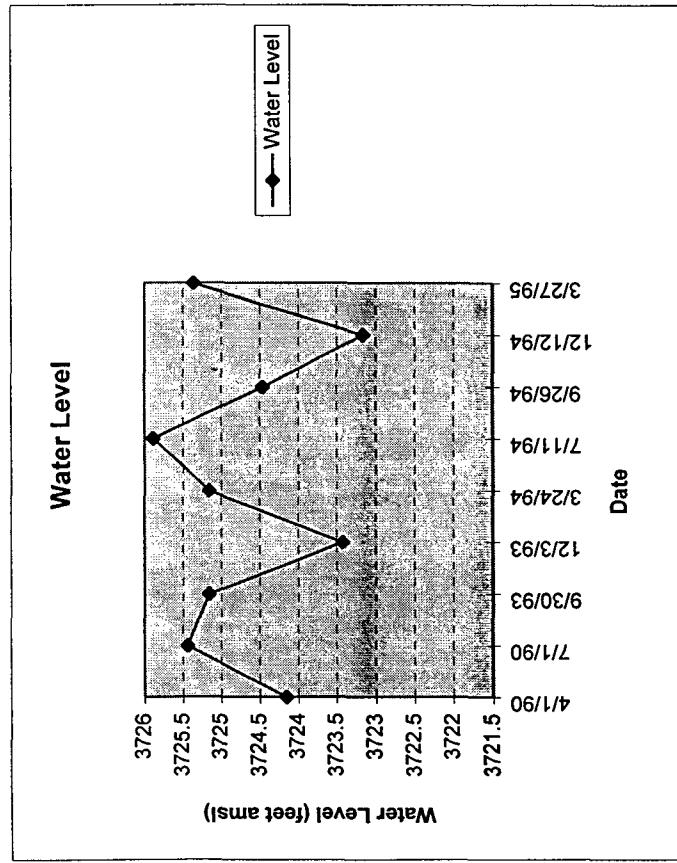
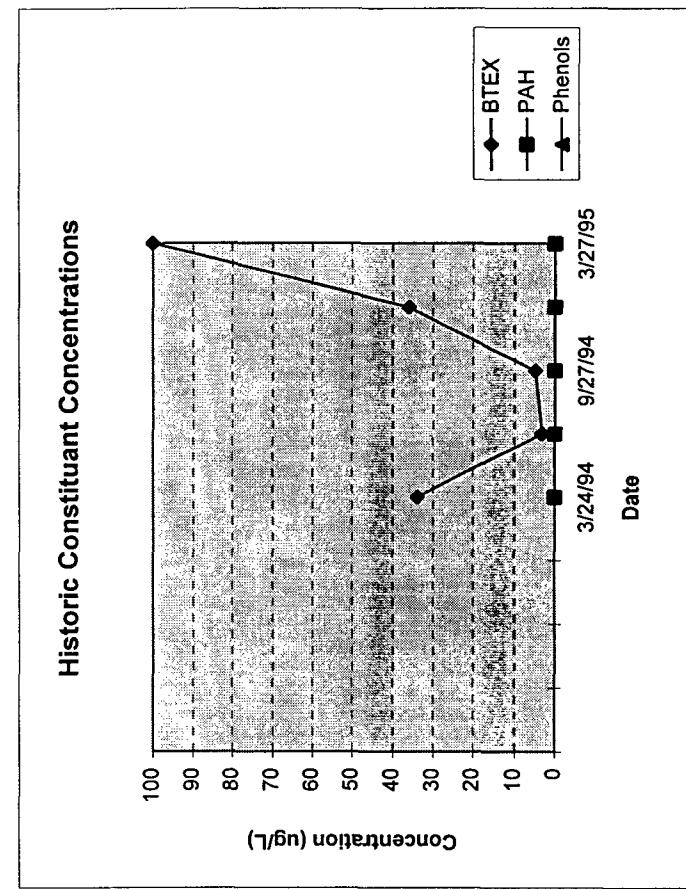
Historic Constituent Concentrations



Water Level

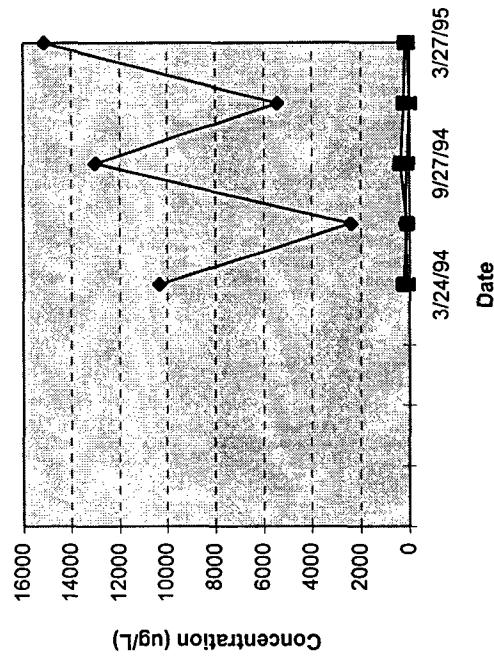


MW-7	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.16				
	7/1/90	3725.44				
	9/30/93	3725.16				
	12/3/93	3723.42				
	3/24/94	3725.16	3/24/94	33.9	0	0
	7/1/94	3725.89	7/12/94	3.2	0	0
	9/26/94	3724.46	9/27/94	4.9	0	0
	12/12/94	3723.16	12/13/94	36	0	0
	3/27/95	3725.36	3/27/95	100	0	0

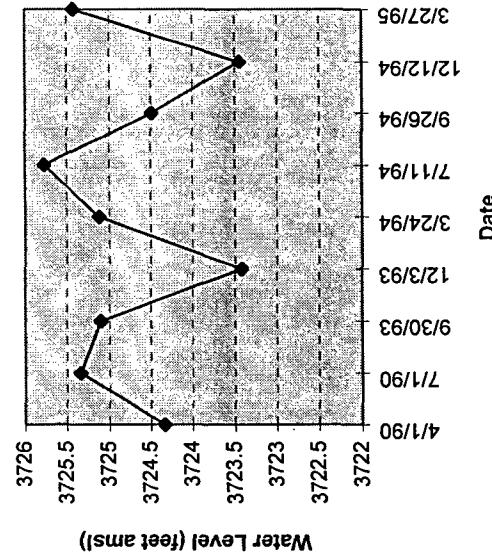


MW-8	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.33				
	7/1/90	3725.34				
	9/30/93	3725.1				
	12/3/93	3723.42				
	3/24/94	3725.12	3/24/94	10320	250	96
	7/1/94	3725.77	7/12/94	2400	93	166
	9/26/94	3724.49	9/27/94	13000	366	110
	12/1/94	3723.45	12/13/94	5440	236	0
	3/27/95	3725.42	3/27/95	15100	180	87

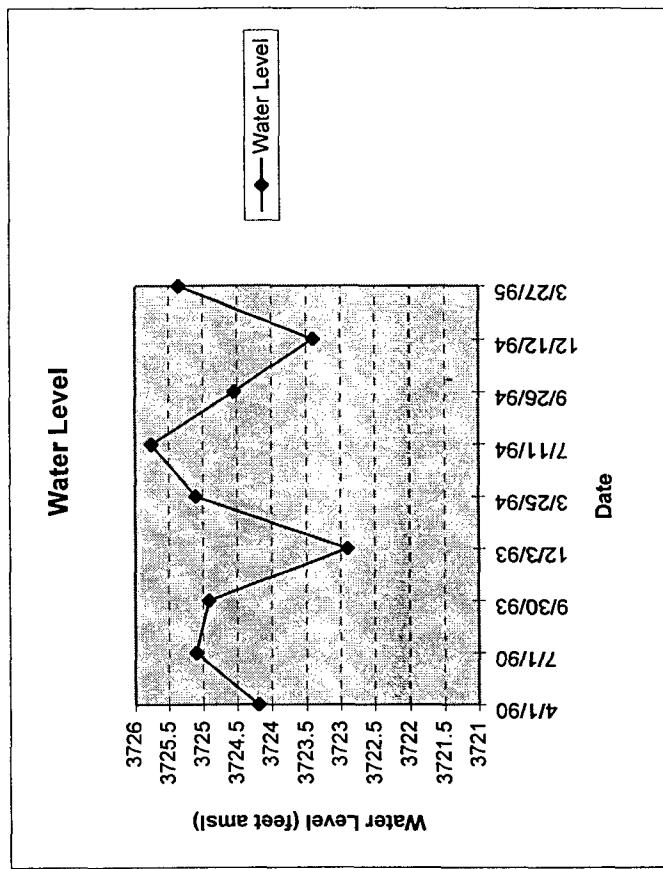
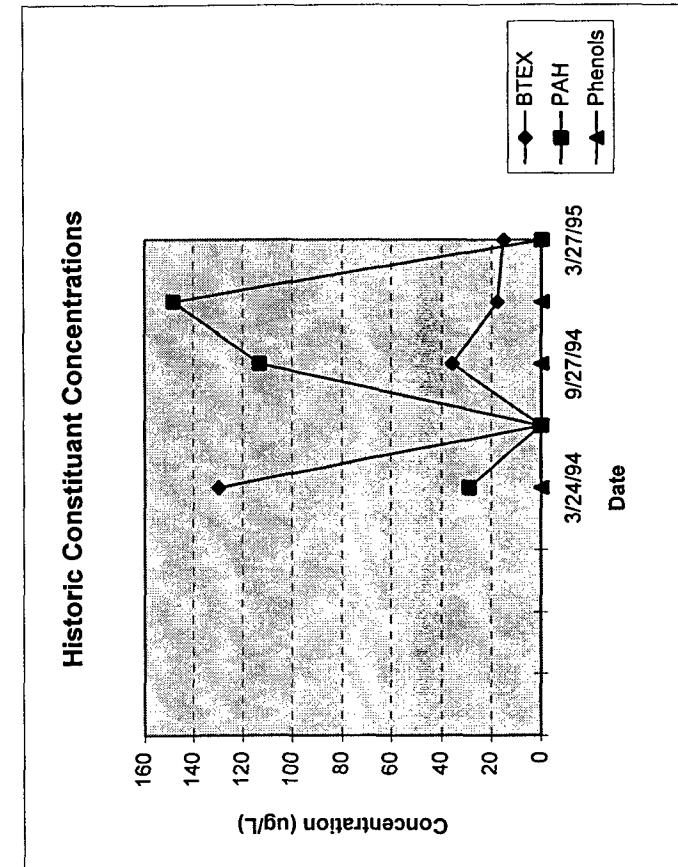
Historic Constituent Concentrations



Water Level

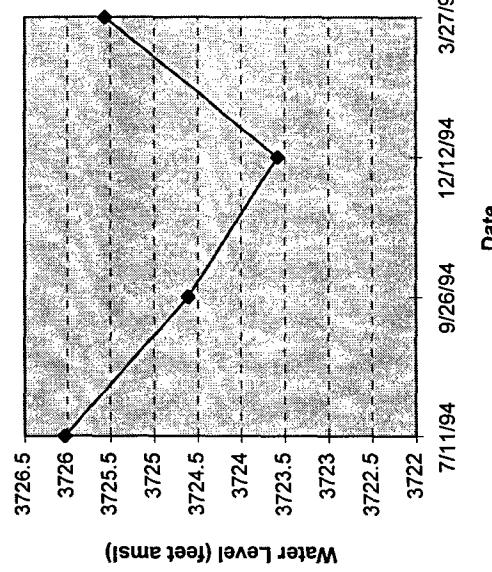


MW-11	Date	Water Level	Date	BTEX	PAH	Phenols
	4/1/90	3724.19				
	7/1/90	3725.1				
	9/30/93	3724.91				
	12/3/93	3722.9				
	3/25/94	3725.1	3/24/94	129.8	29	0
	7/11/94	3725.75	7/12/94	0	0	0
	9/26/94	3724.54	9/27/94	35.6	113	0
	12/12/94	3723.4	12/13/94	17.5	148	0
	3/27/95	3725.35	3/27/95	15	0	0

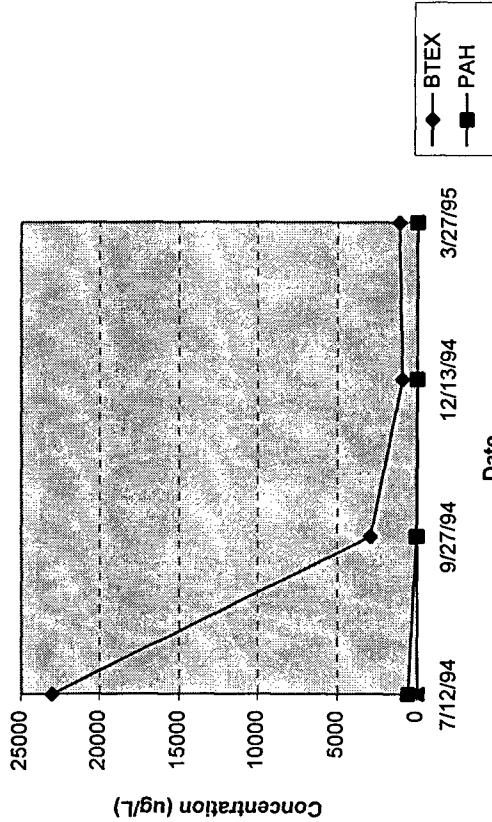


MW-14	Date	Water Level	Date	BTEX	PAH	Phenols
	7/11/94	3726.03	7/12/94	23000	570	0
	9/26/94	3724.61	9/27/94	2900	40	0
	12/12/94	3723.58	12/13/94	930	0	0
	3/27/95	3725.56	3/27/95	1125	0	0

Water Level

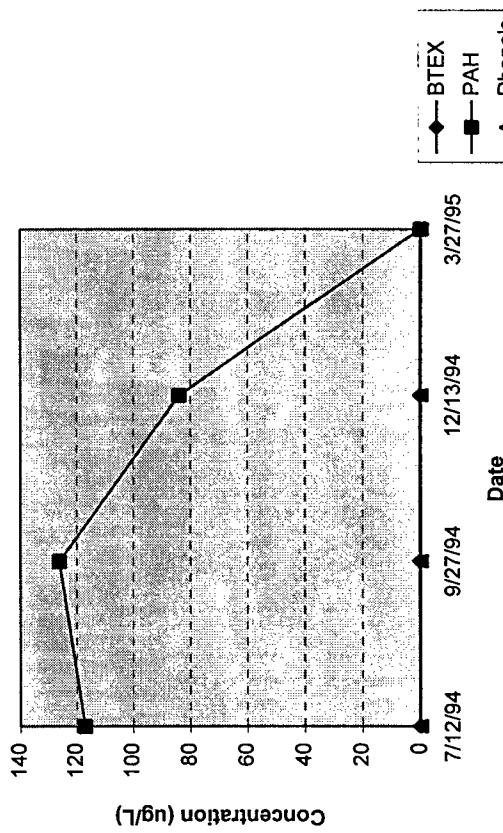


Historic Constituent Concentrations

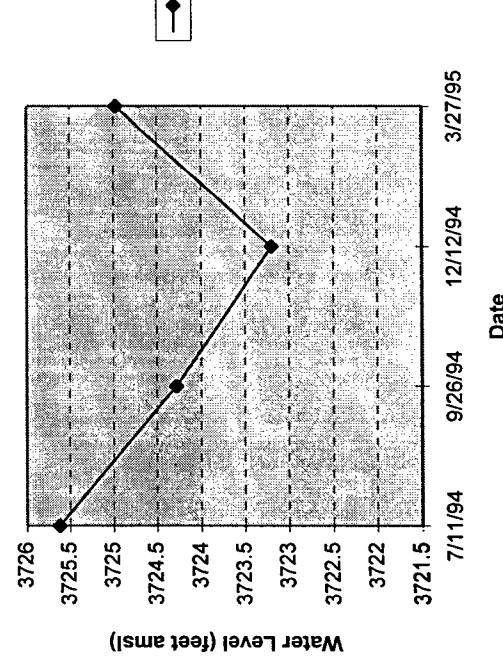


MW-15	Date	Water Level	Date	BTEX	PAH	Phenols
	7/1/94	3725.62	7/12/94		117	0
	9/26/94	3724.28	9/27/94		126	0
	12/12/94	3723.19	12/13/94		84	0
	3/27/95	3724.97	3/27/95		0	0

Historic Constituent Concentrations

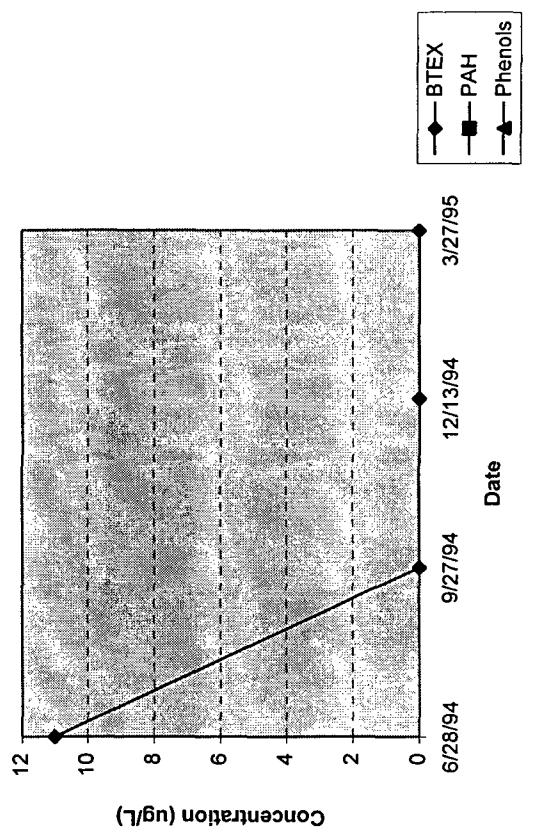


Water Level

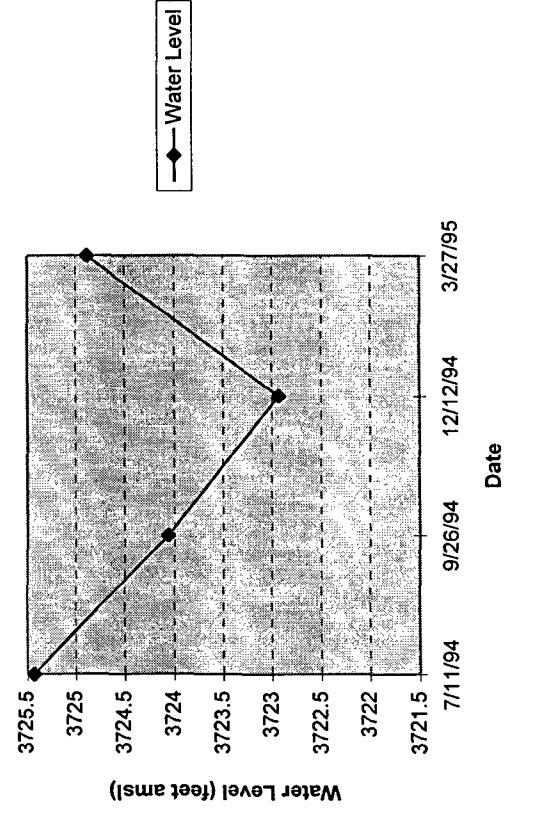


MW-16	Date	Water Level	Date	BTEX	PAH	Phenols
	7/11/94	3725.43	6/28/94	11		
	9/26/94	3724.06	9/27/94	0		
	12/12/94	3722.93	12/13/94	0		
	3/27/95	3724.88	3/27/95	0		

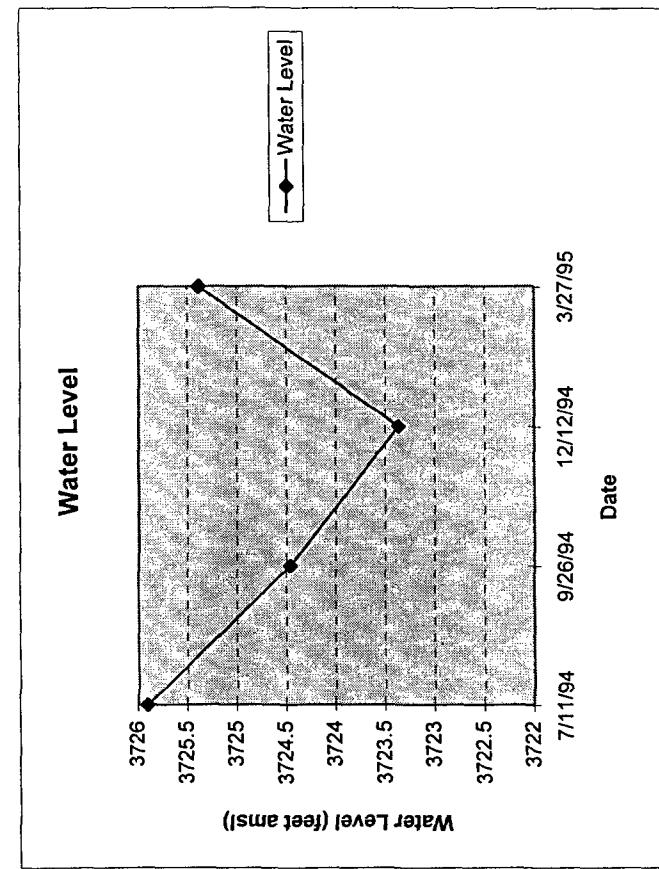
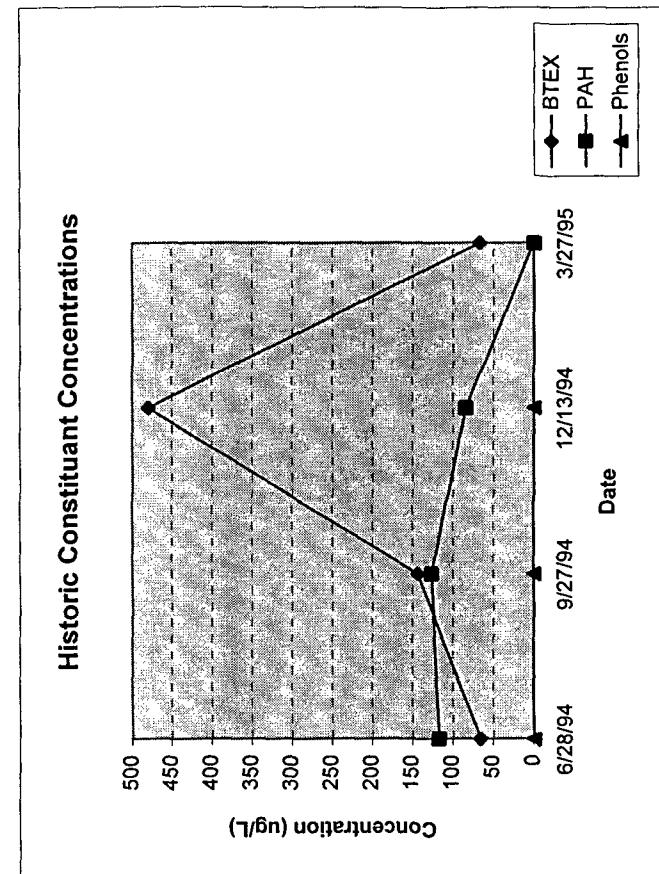
Historic Constituent Concentrations



Water Level



MW-17	Date	Water Level	Date	BTEX	PAH	Phenols
	7/11/94	3725.9	6/28/94	66	117	0
	9/26/94	3724.46	9/27/94	143.2	126	0
	12/12/94	3723.36	12/13/94	480	84	0
	3/27/95	3725.38	3/27/95	67	0	0



Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
Water Level Data at Rexene - Brickland Facility									
Water Level Data at Rexene - Brickland Facility									
Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-1	3730.57	3728.87	3723.92	04/01/90	--	--	3724.91	-0.99	10.00
MW-1	3730.57		3723.92	07/01/90	--	--	3726.19	-2.27	
MW-1	3730.57		3723.92	09/30/93	--	--	3725.78	-1.86	
MW-1	3730.57		3723.92	12/03/93	--	6.27	3724.30	-0.38	
MW-1	3730.57		3723.92	12/07/93	--	6.44	3724.13	-0.21	
MW-1	3730.57		3723.92	03/23/94	NP	5.30	3725.27	-1.35	
MW-1	3730.57		3723.92	07/11/94	NP	4.03	3726.54	-2.62	
MW-1	3730.57		3723.92	09/26/94	NP	5.20	3725.37	-1.45	
MW-1	3730.57		3723.92	12/12/94	NP	6.22	3724.35	-0.43	
MW-2	3730.49	3729.33	NA	04/01/90	--	--	3726.74	NA	
MW-2	3730.49		NA	07/01/90	--	--	3727.92	NA	
MW-2	3730.49		NA	09/30/93	NM	NM			
MW-2	3730.49		NA	12/03/93	NM	NM			
MW-2	3730.49		NA	03/23/94	NP	4.10	3726.39	NA	
MW-2	3730.49		NA	07/11/94	NP	3.95	3726.54	NA	
MW-2	3730.49		NA	09/26/94	NP	4.60	3725.89	NA	
MW-2	3730.49		NA	12/12/94	NP	6.52	3723.97	NA	
MW-3s	3730.00	3727.81	3723.50	04/01/90	--	--	3724.36	-0.86	10.00
MW-3s	3730.00		3723.50	07/01/90	--	--	3725.68	-2.18	
MW-3s	3730.00		3723.50	09/30/93	--	--	3725.29	-1.79	
MW-3s	3730.00		3723.50	12/03/93	--	6.63	3723.37	0.13	
MW-3s	3730.00		3723.50	12/07/93	--	6.87	3723.13	0.37	
MW-3s	3730.00		3723.50	03/23/94	NP	4.80	3725.20	-1.70	
MW-3s	3730.00		3723.50	03/25/94	NP	4.90	3725.10	-1.60	
MW-3s	3730.00		3723.50	07/11/94	NP	4.13	3725.87	-2.37	
MW-3s	3730.00		3723.50	09/26/94	NP	5.50	3724.50	-1.00	
MW-3s	3730.00		3723.50	12/12/94	NP	6.56	3723.44	0.06	
MW-3s	3730.00		3723.50	03/27/95	NP	4.65	3725.35	-1.85	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-3d	3730.00	3727.93	3707.00	04/01/90	--	--	3723.92	-16.92	10.00
MW-3d	3730.00		3707.00	07/01/90	--	--	3725.60	-18.60	
MW-3d	3730.00		3707.00	09/30/93	--	--	3725.22	-18.22	
MW-3d	3730.00		3707.00	12/03/93	--	6.70	3723.30	-16.30	
MW-3d	3730.00		3707.00	12/07/93	--	6.95	3723.05	-16.05	
MW-3d	3730.00		3707.00	03/23/94	NP	4.90	3725.10	-18.10	
MW-3d	3730.00		3707.00	07/11/94	NP	4.22	3725.78	-18.78	
MW-3d	3730.00		3707.00	09/26/94	NP	5.58	3724.42	-17.42	
MW-3d	3730.00		3707.00	12/12/94	NP	6.65	3723.35	-16.35	
MW-3d	3730.00		3707.00	03/28/95	NP	4.74	3725.26	-18.26	
MW-4	3728.86	3727.50	3722.76	04/01/90	--	--	3724.37	-1.61	10.00
MW-4	3728.86		3722.76	07/01/90	--	--	3725.59	-2.83	
MW-4	3728.86		3722.76	09/30/93	--	--	3725.21	-2.45	
MW-4	3728.86		3722.76	12/03/93	--	5.27	3723.59	-0.83	
MW-4	3728.86		3722.76	03/23/94	NP	3.50	3725.36	-2.60	
MW-4	3728.86		3722.76	07/11/94	NP	3.30	3725.56	-2.80	
MW-4	3728.86		3722.76	09/26/94	NP	4.18	3724.68	-1.92	
MW-4	3728.86		3722.76	12/12/94	NP	5.22	3723.64	-0.88	
MW-4	3728.86		3722.76	03/27/95	NP	3.30	3725.56	-2.80	
MW-5	3729.70	3728.29	3725.20	04/01/90	--	--	3724.35	0.85	10.00
MW-5	3729.70		3725.20	07/01/90	--	--	3725.50	-0.30	
MW-5	3729.70		3725.20	09/30/93	--	--	3725.11	0.09	
MW-5	3729.70		3725.20	12/03/93	--	6.11	3723.59	1.61	
MW-5	3729.70		3725.20	03/24/94	NP	4.40	3725.30	-0.10	
MW-5	3729.70		3725.20	07/11/94	NP	3.82	3725.88	-0.68	
MW-5	3729.70		3725.20	09/26/94	NP	5.00	3724.70	0.50	
MW-5	3729.70		3725.20	12/12/94	NP	6.05	3723.65	1.55	
MW-5	3729.70		3725.20	03/27/95	NP	4.30	3725.40	-0.20	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-6s	3730.65	3728.46	3724.05	04/01/90	--	--	3724.07	-0.02	10.00
MW-6s	3730.65		3724.05	07/01/90	--	--	3725.35	-1.30	
MW-6s	3730.65		3724.05	09/30/93	--	--	3725.08	-1.03	
MW-6s	3730.65		3724.05	12/03/93	--	--	3723.78	0.27	
MW-6s	3730.65		3724.05	12/07/93	--	7.78	3722.87	1.18	
MW-6s	3730.65		3724.05	03/25/94	NP	5.80	3724.85	-0.80	
MW-6s	3730.65		3724.05	07/11/94	NP	5.10	3725.55	-1.50	
MW-6s	3730.65		3724.05	09/26/94	NP	6.45	3724.20	-0.15	
MW-6s	3730.65		3724.05	12/12/94	NP	7.62	3723.03	1.02	
MW-6s	3730.65		3724.05	03/28/95	NP	5.60	3725.05	-1.00	
MW-6d	3730.62	3728.59	3703.12	04/01/90	--	--	3724.08	-20.96	10.00
MW-6d	3730.62		3703.12	07/01/90	--	--	3725.33	-22.21	
MW-6d	3730.62		3703.12	09/30/93	--	--	3725.00	-21.88	
MW-6d	3730.62		3703.12	12/03/93	--	--	3723.75	-20.63	
MW-6d	3730.62		3703.12	12/07/93	--	7.78	3722.84	-19.72	
MW-6d	3730.62		3703.12	03/23/94	NP	5.80	3724.82	-21.70	
MW-6d	3730.62		3703.12	07/11/94	NP	5.05	3725.57	-22.45	
MW-6d	3730.62		3703.12	09/26/94	NP	6.40	3724.22	-21.10	
MW-6d	3730.62		3703.12	12/12/94	NP	7.62	3723.00	-19.88	
MW-6d	3730.62		3703.12	03/28/95	NP	5.60	3725.02	-21.90	
MW-7	3728.96	3727.75	3723.16	04/01/90	--	--	3724.16	-1.00	10.00
MW-7	3728.96		3723.16	07/01/90	--	--	3725.44	-2.28	
MW-7	3728.96		3723.16	09/30/93	--	--	3725.16	-2.00	
MW-7	3728.96		3723.16	12/03/93	--	5.54	3723.42	-0.26	
MW-7	3728.96		3723.16	03/24/94	NP	3.80	3725.16	-2.00	
MW-7	3728.96		3723.16	07/11/94	NP	3.07	3725.89	-2.73	
MW-7	3728.96		3723.16	09/26/94	NP	4.50	3724.46	-1.30	
MW-7	3728.96		3723.16	12/12/94	NP	5.80	3723.16	0.00	
MW-7	3728.96		3723.16	03/27/95	NP	3.60	3725.36	-2.20	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-8	3729.22	3727.72	3724.52	04/01/90	--	--	3724.33	0.19	10.00
MW-8	3729.22		3724.52	07/01/90	--	--	3725.34	-0.82	
MW-8	3729.22		3724.52	09/30/93	--	--	3725.10	-0.58	
MW-8	3729.22		3724.52	12/03/93	--	5.80	3723.42	1.10	
MW-8	3729.22		3724.52	03/24/94	NP	4.10	3725.12	-0.60	
MW-8	3729.22		3724.52	07/11/94	NP	3.45	3725.77	-1.25	
MW-8	3729.22		3724.52	09/26/94	NP	4.73	3724.49	0.03	
MW-8	3729.22		3724.52	12/12/94	NP	5.77	3723.45	1.07	
MW-8	3729.22		3724.52	03/27/95	NP	3.80	3725.42	-0.90	
MW-9s	3730.01	3728.24	3724.31	04/01/90	--	--	3723.75	0.56	10.00
MW-9s	3730.01		3724.31	07/01/90	--	--	3724.98	-0.67	
MW-9s	3730.01		3724.31	09/30/93	--	--	3724.84	-0.53	
MW-9s	3730.01		3724.31	12/03/93	--	--	3723.52	0.79	
MW-9s	3730.01		3724.31	12/07/93	--	7.30	3722.71	1.60	
MW-9s	3730.01		3724.31	03/25/94	NP	5.45	3724.56	-0.25	
MW-9s	3730.01		3724.31	07/11/94	NP	4.72	3725.29	-0.98	
MW-9s	3730.01		3724.31	09/26/94	NP	6.10	3723.91	0.40	
MW-9s	3730.01		3724.31	12/12/94	NP	7.20	3722.81	1.50	
MW-9s	3730.01		3724.31	03/28/95	NP	5.20	3724.81	-0.50	
MW-9d	3730.08	3728.59	3703.48	04/01/90	--	--	3723.74	-20.26	10.00
MW-9d	3730.08		3703.48	07/01/90	--	--	3724.94	-21.46	
MW-9d	3730.08		3703.48	09/30/93	--	--	Silted In		
MW-9d	3730.08		3703.48	12/03/93	--	--	Silted in		
MW-9d	3730.08		3703.48	07/11/94	--	--	Obstructed		
MW-9d	3730.08		3703.48	09/26/94	--	--	Obstructed		
MW-9d	3730.08		3703.48	12/12/94	--	--	Obstructed		

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-10	3732.54	3731.12	3723.54	04/01/90	--	--	3723.81	-0.27	10.00
MW-10	3732.54		3723.54	07/01/90	--	--	3725.32	-1.78	
MW-10	3732.54		3723.54	09/30/93	7.00	12.42	3724.46	-0.92	
MW-10	3732.54		3723.54	12/03/93	9.07	12.65	3722.75	0.79	
MW-10	3732.54		3723.54	07/11/94	6.55	10.00	3725.30	-1.76	
MW-10	3732.54		3723.54	09/26/94	8.00	10.40	3724.06	-0.52	
MW-10	3732.54		3723.54	12/12/94	8.26	10.72	3723.79	-0.25	
MW-11	3731.40	3729.84	3721.60	04/01/90	--	--	3724.19	-2.59	10.00
MW-11	3731.40		3721.60	07/01/90	--	--	3725.10	-3.50	
MW-11	3731.40		3721.60	09/30/93	--	--	3724.91	-3.31	
MW-11	3731.40		3721.60	12/03/93	--	8.50	3722.90	-1.30	
MW-11	3731.40		3721.60	03/25/94	NP	6.30	3725.10	-3.50	
MW-11	3731.40		3721.60	07/11/94	NP	5.65	3725.75	-4.15	
MW-11	3731.40		3721.60	09/26/94	6.85	6.90	3724.54	-2.94	
MW-11	3731.40		3721.60	12/12/94	--	8.00	3723.40	-1.80	
MW-11	3731.40		3721.60	03/27/95	--	6.05	3725.35	-3.75	
MW-12	3730.35	3728.88	3713.45	04/01/90	--	--	3723.53	-10.08	10.00
MW-12	3730.35		3713.45	07/01/90	--	--	3726.68	-13.23	
MW-12	3730.35		3713.45	09/30/93	--	--	3726.09	-12.64	
MW-12	3730.35		3713.45	12/03/93	--	--	3724.91	-11.46	
MW-12	3730.35		3713.45	12/06/93	--	7.80	3722.55	-9.10	
MW-12	3730.35		3713.45	03/23/94	NP	3.90	3726.45	-13.00	
MW-12	3730.35		3713.45	07/11/94	NP	3.30	3727.05	-13.60	
MW-12	3730.35		3713.45	09/26/94	NP	4.65	3725.70	-12.25	
MW-12	3730.35		3713.45	12/12/94	NP	6.70	3723.65	-10.20	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
MW-13	3732.36	3729.53	NA	04/01/90	--	--	3724.41	NA	
MW-13	3732.36		NA	07/01/90	--	--	3725.50	NA	
MW-13	3732.36		NA	09/30/93	--	--	3725.22	NA	
MW-13	3732.36		NA	12/03/93	--	NM			
MW-13	3732.36		NA	07/11/94	NP	6.54	3725.82	NA	
MW-13	3732.36		NA	09/26/94	NP	7.65	3724.71	NA	
MW-13	3732.36		NA	12/12/94	NP	7.92	3724.44	NA	
MW-14	3730.46	3727.91	3725.46	07/11/94	NP	4.43	3726.03	-0.57	
MW-14	3730.46		3725.46	09/26/94	NP	5.85	3724.61	0.85	
MW-14	3730.46		3725.46	12/12/94	NP	6.88	3723.58	1.88	
MW-14	3730.46		3725.46	03/27/95	NP	4.90	3725.56	-0.10	
MW-15	3738.62	3735.64	3724.92	07/11/94	NP	13.00	3725.62	-0.70	
MW-15	3738.62		3724.92	09/26/94	NP	14.34	3724.28	0.64	
MW-15	3738.62		3724.92	12/12/94	NP	15.43	3723.19	1.73	
MW-15	3738.62		3724.92	03/27/95	NP	13.65	3724.97	-0.05	
MW-16	3736.78	3734.35	3726.78	07/11/94	NP	11.35	3725.43	1.35	
MW-16	3736.78		3726.78	09/26/94	NP	12.72	3724.06	2.72	
MW-16	3736.78		3726.78	12/12/94	NP	13.85	3722.93	3.85	
MW-16	3736.78		3726.78	03/27/95	NP	11.90	3724.88	1.90	
MW-17	3731.98	3731.98	3726.58	07/11/94	NP	6.08	3725.90	0.68	
MW-17	3731.98		3726.58	09/26/94	NP	7.52	3724.46	2.12	
MW-17	3731.98		3726.58	12/12/94	NP	8.62	3723.36	3.22	
MW-17	3731.98		3726.58	03/27/95	NP	6.60	3725.38	1.20	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-1	3733.40	3730.15	3722.37	10/06/93	--	6.97	3726.43	-4.06	5.60
WP-1	3733.40	3730.15	3722.37	12/03/93	--	7.96	3723.27	-0.90	
WP-1	3733.40	3730.15	3726.99	07/11/94	NP	8.28	3725.12	1.87	
WP-1	3733.40	3730.15	3726.99	09/26/94	NP	9.05	3724.35	2.64	
WP-1	3733.40	3730.15	3726.99	12/12/94	NP	10.13	3723.27	3.72	
WP-2	3731.65	3730.40	3718.64	10/06/93	--	8.08	3723.57	-4.93	5.60
WP-2	3731.65	3730.40	3718.64	12/03/93	--	8.53	3723.17	-4.53	
WP-2	3731.65	3730.40	3718.64	07/11/94	NP	6.50	3725.15	-6.51	
WP-2	3731.65	3730.40	3718.64	09/26/94	NP	9.34	3722.31	-3.67	
WP-2	3731.65	3730.40	3718.64	12/12/94	NP	8.43	3723.22	-4.58	
WP-3	3731.17	3728.50	3720.27	10/06/93	--	5.66	3725.51	-5.24	6.02
WP-3	3731.17	3728.50	3720.27	12/03/93	--	6.48	3724.28	-4.01	
WP-3	3731.17	3728.50	3726.77	07/11/94	NP	5.54	3725.63	1.14	
WP-3	3731.17	3728.50	3726.77	09/26/94	NP	6.10	3725.07	1.70	
WP-3	3731.17	3728.50	3726.77	12/12/94	NP	7.93	3723.24	3.53	
WP-4	3731.85	3727.74	3715.84	10/06/93	--	--	NM	NA	5.20
WP-4	3731.85	3727.74	3715.84	12/03/93	--	5.27	3726.58	-10.74	
WP-4	3731.85	3727.74	3726.84	07/11/94	NP	6.46	3725.39	1.45	
WP-4	3731.85	3727.74	3726.84	09/26/94	NP	7.50	3724.35	2.49	
WP-4	3731.85	3727.74	3726.84	12/12/94	NP	8.65	3723.20	3.64	
WP-5	3731.99	3727.58	3718.92	10/06/93	--	4.71	3727.28	-8.36	5.69
WP-5	3731.99	3727.58	3718.92	12/03/93	--	5.53	3726.46	-7.54	
WP-5	3731.99	3727.58	3726.92	07/11/94	NP	6.46	3725.53	1.39	
WP-5	3731.99	3727.58	3726.92	09/26/94	NP	7.35	3724.64	2.28	
WP-5	3731.99	3727.58	3726.92	12/12/94	NP	8.40	3723.59	3.33	
WP-6	3731.70	3728.35	3716.86	10/06/93	--	6.50	3725.20	-8.34	5.70
WP-6	3731.70	3728.35	3716.86	12/03/93	--	6.32	3725.38	-8.52	
WP-6	3731.70	3728.35	3727.26	07/11/94	NP	5.98	3725.72	1.54	
WP-6	3731.70	3728.35	3727.26	09/26/94	NP	7.07	3724.63	2.63	
WP-6	3731.70	3728.35	3727.26	12/12/94	NP	8.22	3723.48	3.78	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-7	3733.12	3730.70	3720.71	10/06/93	--	8.26	3724.86	-4.15	4.71
WP-7	3733.12	3730.70	3720.71	12/03/93	--	9.21	3723.91	-3.20	
WP-7	3733.12	3730.70	3720.71	07/11/94	NP	7.27	3725.85	-5.14	
WP-7	3733.12	3730.70	3720.71	09/26/94	NP	7.93	3725.19	-4.48	
WP-7	3733.12	3730.70	3720.71	12/12/94	NP	9.33	3723.79	-3.08	
WP-8	3729.67	3727.00	3719.57	10/06/93	--	4.17	3725.50	-5.93	4.71
WP-8	3729.67	3727.00	3719.57	12/03/93	--	5.11	3724.56	-4.99	
WP-8	3729.67	3727.00	3726.77	07/11/94	NP	3.85	3725.82	0.95	
WP-8	3729.67	3727.00	3726.77	09/26/94	NP	4.90	3724.77	2.00	
WP-8	3729.67	3727.00	3726.77	12/12/94	NP	6.03	3723.64	3.13	
WP-9	3730.89	3727.24	3720.47	10/06/93	4.43	4.44	3726.46	-5.99	4.71
WP-9	3730.89	3727.24	3720.47	12/03/93	--	5.22	3725.67	-5.20	
WP-9	3730.89	3727.24	3725.87	07/11/94	NP	5.13	3725.76	0.11	
WP-9	3730.89	3727.24	3725.87	09/26/94	NP	6.33	3724.56	1.31	
WP-9	3730.89	3727.24	3725.87	12/12/94	NP	7.40	3723.49	2.38	
WP-10	3731.37	3727.30	3721.46	10/06/93	--	4.32	3727.05	-5.59	3.71
WP-10	3731.37	3727.30	3721.46	12/03/93	--	5.14	3726.23	-4.77	
WP-10	3731.37	3727.30	3726.51	07/11/94	NP	5.96	3725.41	1.10	
WP-10	3731.37	3727.30	3726.51	09/26/94	8.70	8.90	3722.63	3.88	
WP-10	3731.37	3727.30	3726.51	12/12/94	DRY	--			
WP-11	3731.50	3727.49	3724.21	10/06/93	4.66	4.67	3726.84	-2.63	3.71
WP-11	3731.50	3727.49	3724.21	12/03/93	--	5.49	3726.01	-1.80	
WP-11	3731.50	3727.49	3726.61	07/11/94	NP	5.50	3726.00	0.61	
WP-11	3731.50	3727.49	3726.61	09/26/94	DRY	--			
WP-11	3731.50	3727.49	3726.61	12/12/94	DRY	--			
WP-12	3731.35	3727.40	3724.09	10/06/93	--	4.29	3727.06	-2.97	3.69
WP-12	3731.35	3727.40	3724.09	12/03/93	--	5.20	3726.15	-2.06	
WP-12	3731.35	3727.40	3726.59	07/11/94	NP	5.54	3725.81	0.78	
WP-12	3731.35	3727.40	3726.59	09/26/94	DRY	--			
WP-12	3731.35	3727.40	3726.59	12/12/94	--	6.75	3724.60	1.99	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-13	3730.82	3726.72	3723.19	10/06/93	--	3.80	3727.02	-3.83	3.67
WP-13	3730.82	3726.72	3723.19	12/03/93	--	4.54	3726.28	-3.09	
WP-13	3730.82	3726.72	3725.39	07/11/94	NP	4.95	3725.87	-0.48	
WP-13	3730.82	3726.72	3725.39	09/26/94	NP	6.25	3724.57	0.82	
WP-13	3730.82	3726.72	3725.39	12/12/94	NP	6.53	3724.29	1.10	
WP-14	3730.50	3727.38	3724.32	10/06/93	--	3.84	3726.66	-2.34	3.70
WP-14	3730.50	3727.38	3724.32	12/03/93	--	4.66	3725.84	-1.52	
WP-14	3730.50	3727.38	3726.42	07/11/94	NP	4.22	3726.28	0.14	
WP-14	3730.50	3727.38	3726.42	09/26/94	TAR	--			
WP-14	3730.50	3727.38	3726.42	12/12/94	--	5.96	3724.54	1.88	
WP-15	3732.97	3729.57	3723.61	10/06/93	--	6.13	3726.84	-3.23	3.69
WP-15	3732.97	3729.57	3723.61	12/03/93	--	6.99	3725.98	-2.37	
WP-15	3732.97	3729.57	3726.31	07/11/94	NP	7.21	3725.76	0.55	
WP-15	3732.97	3729.57	3726.31	09/26/94	NP	8.07	3724.90	1.41	
WP-15	3732.97	3729.57	3726.31	12/12/94	NP	8.76	3724.21	2.10	
WP-16	3730.25	3728.60	3722.00	10/06/93	--	6.32	3723.93	-1.93	3.69
WP-16	3730.25	3728.60	3722.00	12/03/93	--	7.21	3723.04	-1.04	
WP-16	3730.25	3728.60	3726.20	07/11/94	NP	5.03	3725.22	0.98	
WP-16	3730.25	3728.60	3726.20	09/26/94	IN SILT	5.54	3724.71	1.49	
WP-16	3730.25	3728.60	3726.20	12/12/94	IN SILT	--			

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-17	3731.28	3727.93	3719.88	10/06/93	--	4.90	3726.38	-6.50	3.69
WP-17	3731.28	3727.93	3719.88	12/03/93	--	4.98	3726.30	-6.42	
WP-17	3731.28	3727.93	3726.21	07/11/94	NP	5.38	3725.90	0.31	
WP-17	3731.28	3727.93	3726.21	09/26/94	DRY	--			
WP-17	3731.28	3727.93	3726.21	12/12/94	DRY	--			
WP-18	3728.56	3727.34	3718.34	10/06/93	--	4.18	3724.38	-6.04	3.69
WP-18	3728.56	3727.34	3718.34	12/03/93	--	7.00	3721.56	-3.22	
WP-18	3728.56	3727.34	3718.34	07/11/94	NP	2.58	3725.98	-7.64	
WP-18	3728.56	3727.34	3718.34	09/26/94	NP	3.85	3724.71	-6.37	
WP-18	3728.56	3727.34	3718.34	12/12/94	NP	4.90	3723.66	-5.32	
WP-19	3729.65	3728.29	3724.59	10/06/93	--	5.16	3724.49	0.10	3.71
WP-19	3729.65	3728.29	3724.59	12/03/93	6.99	7.00	3722.66	1.93	
WP-19	3729.65	3728.29	3724.59	07/11/94	NP	3.71	3725.94	-1.35	
WP-19	3729.65	3728.29	3724.59	09/26/94	NP	4.97	3724.68	-0.09	
WP-19	3729.65	3728.29	3724.59	12/12/94	NP	5.97	3723.68	0.91	
WP-20	3731.46	3727.60	3723.77	10/06/93	--	4.34	3727.12	-3.35	4.67
WP-20	3731.46	3727.60	3723.77	12/03/93	--	5.36	3726.10	-2.33	
WP-20	3731.46	3727.60	3726.57	07/11/94	NP	3.22	3728.24	-1.67	
WP-20	3731.46	3727.60	3726.57	09/26/94	PRODUCT	6.70	3724.76	1.81	
WP-20	3731.46	3727.60	3726.57	12/12/94	NP	7.80	3723.66	2.91	
WP-21	3730.38	3727.38	3718.77	10/06/93	--	4.69	3725.69	-6.92	3.69
WP-21	3730.38	3727.38	3718.77	12/03/93	--	5.57	3724.81	-6.04	
WP-21	3730.38	3727.38	3725.90	07/11/94	NP	4.95	3725.43	0.47	
WP-21	3730.38	3727.38	3725.90	09/26/94	NP	5.77	3724.61	1.29	
WP-21	3730.38	3727.38	3725.90	12/12/94	NP	6.78	3723.60	2.30	
WP-22	3728.85	3727.50	3713.90	10/06/93	--	5.00	3723.85	-9.95	3.69
WP-22	3728.85	3727.50	3713.90	12/03/93	--	5.79	3723.06	-9.16	
WP-22	3728.85	3727.50	3718.70	07/11/94	NP	3.00	3725.85	-7.15	
WP-22	3728.85	3727.50	3718.70	09/26/94	NP	4.33	3724.52	-5.82	
WP-22	3728.85	3727.50	3718.70	12/12/94	NP	5.43	3723.42	-4.72	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-23	3729.11	3728.00	3724.03	10/06/93	--	5.38	3723.73	0.30	3.69
WP-23	3729.11	3728.00	3724.03	12/03/93	--	5.96	3723.15	0.88	
WP-23	3729.11	3728.00	3724.03	07/11/94	NP	5.00	3724.11	-0.08	
WP-23	3729.11	3728.00	3724.03	09/26/94	NP	5.43	3723.68	0.35	
WP-23	3729.11	3728.00	3724.03	12/12/94	NP	5.90	3723.21	0.82	
WP-24	3731.75	3727.40	3718.77	10/06/93	--	4.70	3727.05	-8.28	5.69
WP-24	3731.75	3727.40	3718.77	12/03/93	--	5.61	3726.14	-7.37	
WP-24	3731.75	3727.40	3726.77	07/11/94	NP	6.22	3725.53	1.24	
WP-24	3731.75	3727.40	3726.77	09/26/94	NP	5.41	3726.34	0.43	
WP-24	3731.75	3727.40	3726.77	12/12/94	NP	8.38	3723.37	3.40	
WP-25	3733.54	3730.48	3721.69	10/06/93	9.94	9.99	3723.59	-1.90	3.69
WP-25	3733.54	3730.48	3721.69	12/03/93	9.89	9.94	3723.64	-1.95	
WP-25	3733.54	3730.48	3721.69	07/11/94	7.70	7.92	3725.80	-4.11	
WP-25	3733.54	3730.48	3721.69	09/26/94	PRODUCT	PRODUCT			
WP-25	3733.54	3730.48	3721.69	12/12/94	9.75	9.95	3723.75	-2.06	
WP-26s	3732.44	3730.40	3727.15	12/03/93	10.07	10.19	3722.35	4.80	5.50
WP-26s	3732.44	3730.40	3727.15	07/11/94	6.80	9.00	3725.20	1.95	
WP-26s	3732.44	3730.40	3727.15	09/26/94	7.73	10.32	3724.19	2.96	
WP-26s	3732.44	3730.40	3727.15	12/12/94	8.77	10.30	3723.36	3.79	
WP-26d	3733.28	3730.30	3717.90	12/03/93	--	10.14	3723.14	-5.24	3.50
WP-26d	3733.28	3730.30	3717.90	07/11/94	NP	7.70	3725.58	-7.68	
WP-26d	3733.28	3730.30	3717.90	09/26/94	NP	8.74	3724.54	-6.64	
WP-26d	3733.28	3730.30	3717.90	12/12/94	NP	9.80	3723.48	-5.58	

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-27s	3736.82	3732.77	3726.47	12/03/93	--	13.78	3723.04	3.43	5.50
WP-27s	3736.82	3732.77	3726.47	07/11/94	NP	11.70	3725.12	1.35	
WP-27s	3736.82	3732.77	3726.47	09/26/94	NP	12.70	3724.12	2.35	
WP-27s	3736.82	3732.77	3726.47	12/12/94	NP	13.77	3723.05	3.42	
WP-27d	3736.86	3732.77	3725.46	12/03/93	--	13.83	3723.03	2.43	3.50
WP-27d	3736.86	3732.77	3725.46	07/11/94	11.87	11.98	3724.97	0.49	
WP-27d	3736.86	3732.77	3725.46	09/26/94	12.75	13.20	3724.02	1.44	
WP-27d	3736.86	3732.77	3725.46	12/12/94	13.76	14.25	3723.00	2.46	
WP-28	3731.62	3727.39	3726.39	07/11/94	NP	7.67	3723.95	2.44	3.60
WP-28	3731.62	3727.39	3726.39	09/26/94	NP	6.64	3724.98	1.41	
WP-28	3731.62	3727.39	3726.39	12/12/94	NP	7.65	3723.97	2.42	
WP-29	3731.19	3726.97	3725.97	07/11/94	NP	5.78	3725.41	0.56	3.63
WP-29	3731.19	3726.97	3725.97	09/26/94	NP	6.53	3724.66	1.31	
WP-29	3731.19	3726.97	3725.97	12/12/94	NP	7.53	3723.66	2.31	
WP-30	3733.41	3729.60	3725.20	07/11/94	NP	10.46	3722.95	2.25	5.70
WP-30	3733.41	3729.60	3725.20	09/26/94	NP	9.54	3723.87	1.33	
WP-30	3733.41	3729.60	3725.20	12/12/94	NP	9.57	3723.84	1.36	
WP-31	3737.21	3734.47	3726.57	07/11/94	NP	11.73	3725.48	1.09	5.60
WP-31	3737.21	3734.47	3726.57	09/26/94	NP	12.65	3724.56	2.01	
WP-31	3737.21	3734.47	3726.57	12/12/94	NP	13.58	3723.63	2.94	
WP-32	3736.80	3735.30	3726.30	07/11/94	--	Dry			3.60
WP-32	3736.80	3735.30	3726.30	09/26/94	--	Dry			
WP-32	3736.80	3735.30	3726.30	12/12/94	--	Dry			

Water Level Data at Rexene - Brickland Facility

Well ID	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	TOS Elevation (ft. AMSL)	Measure Date	Depth to Product (ft. BTOC)	Depth to WL (ft. BTOC)	WL Elevation (ft. AMSL)	WL to TOS (ft.)	Screen Length (ft.)
WP-33	3732.74	3729.00	3722.65	07/11/94	NP	7.08	3725.66	-3.01	5.65
WP-33	3732.74	3729.00	3722.65	09/26/94	NP	8.25	3724.49	-1.84	
WP-33	3732.74	3729.00	3722.65	12/12/94	NP	9.36	3723.38	-0.73	
WP-34	3731.53	3727.20	3726.32	07/11/94	NP	7.32	3724.21	2.11	5.62
WP-34	3731.53	3727.20	3726.32	09/26/94	NP	6.81	3724.72	1.60	
WP-34	3731.53	3727.20	3726.32	12/12/94	NP	7.44	3724.09	2.23	
WP-35	3728.71	3727.08	3723.68	07/11/94	NP	3.30	3725.41	-1.73	3.60
WP-35	3728.71	3727.08	3723.68	09/26/94	NP	4.17	3724.54	-0.86	
WP-35	3728.71	3727.08	3723.68	12/12/94	NP	5.23	3723.48	0.20	
WP-36	3729.52	3726.87	3724.50	07/11/94	NP	3.63	3725.89	-1.39	3.63
WP-36	3729.52	3726.87	3724.50	09/26/94	NP	4.75	3724.77	-0.27	
WP-36	3729.52	3726.87	3724.50	12/12/94	NP	5.21	3724.31	0.19	
WP-37	3730.13	3727.70	3725.28	07/11/94	NP	4.44	3725.69	-0.41	3.61
WP-37	3730.13	3727.70	3725.28	09/26/94	NP	5.62	3724.51	0.77	
WP-37	3730.13	3727.70	3725.28	12/12/94	NP	6.50	3723.63	1.65	
Water N	3724.00	On 11/16/94							
Water M	3724.38								
Water S	3722.97								
Trench A	3733.70								
Trench B	3731.40								
Trench C	3727.10								
Trench D	3727.90								
Trench E	3727.40								
Trench F	3727.30								

TOC - Top of Casing

AMSL - Above Mean Sea Level

TOS - Top of Screen

BTOC - Below Top Of Casing

NA - Not Applicable/Available

NM - Not Measured

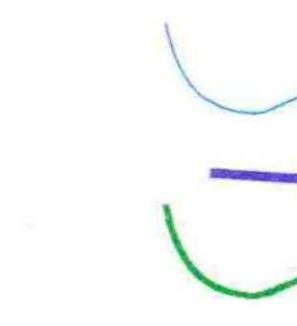
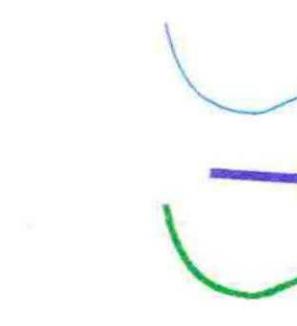
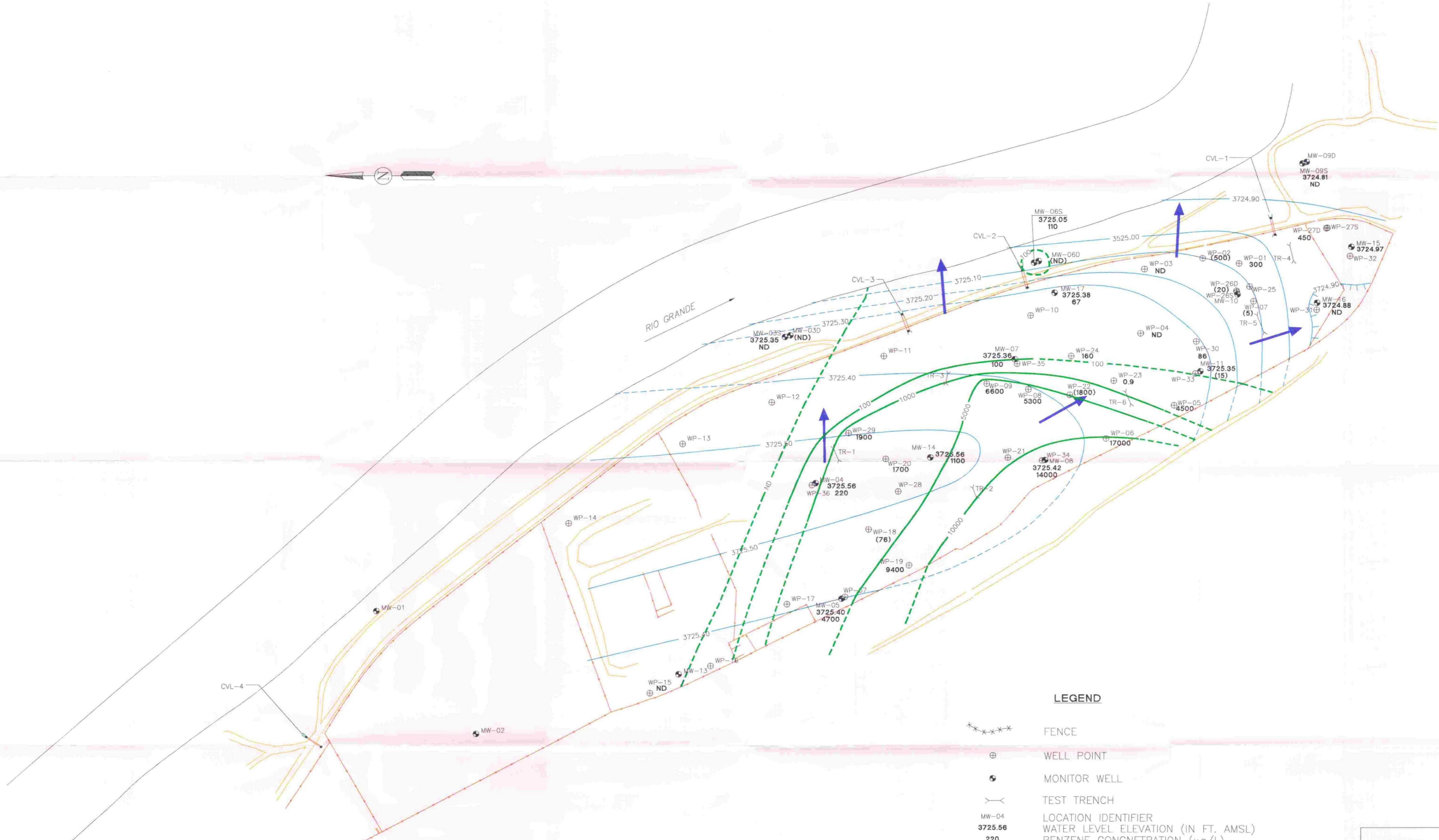
NP - Not Present

All TOC Elevations using Botsford 11/16/94 survey

Water level elevations adjusted for product thickness using specific gravity of 0.8.

Appendix D

**Water Level Elevation Map
5th Quarter — March 1995**



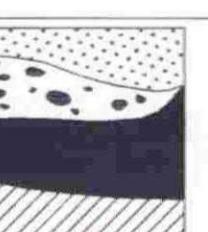
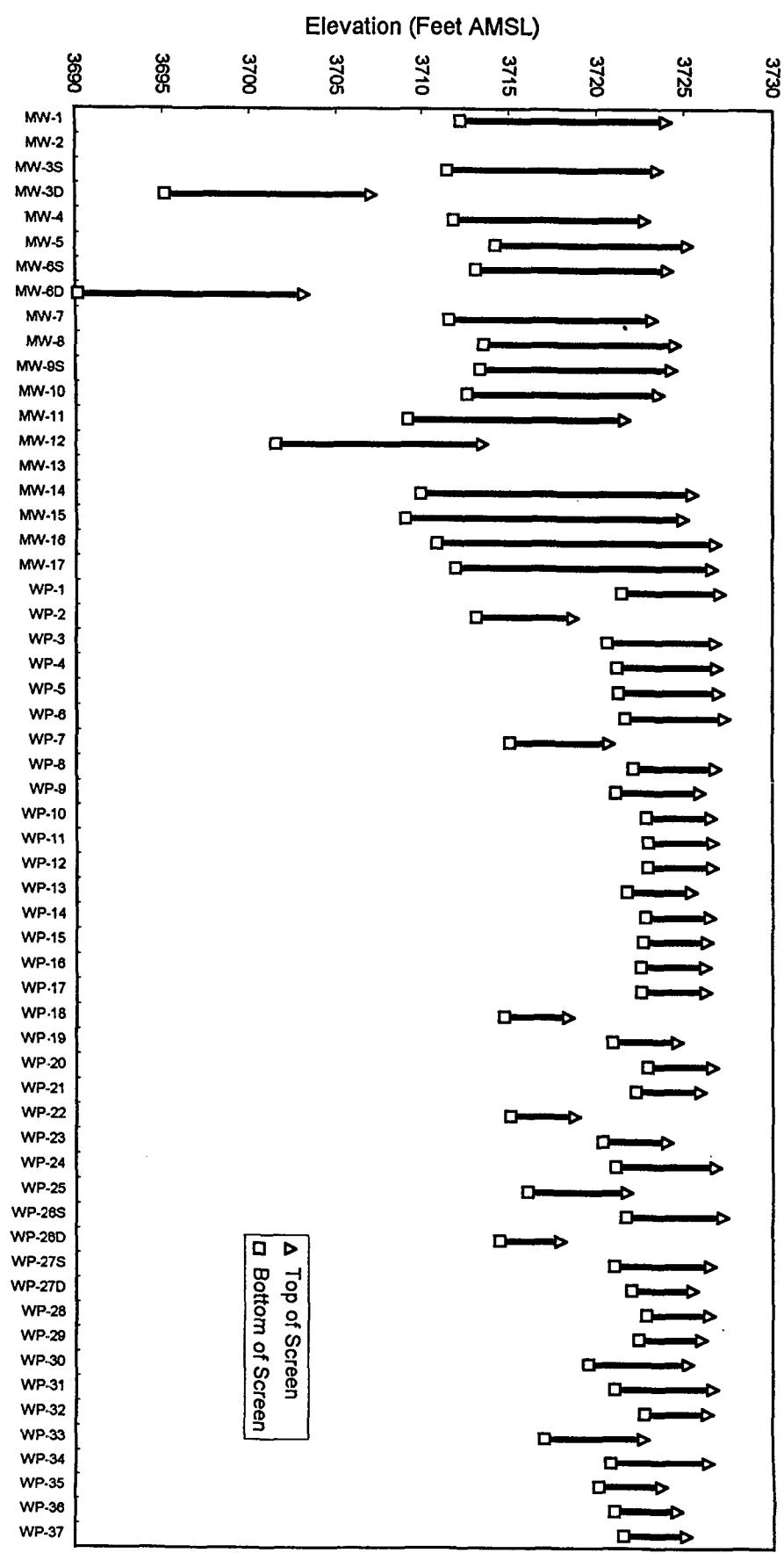
GCL 

PLATE A
WATER LEVEL AND BENZENE
CONCENTRATION CONTOUR MAP IN
5TH QUARTER (MARCH 1995) FOR THE
FORMER BRICKLAND REFINERY SITE

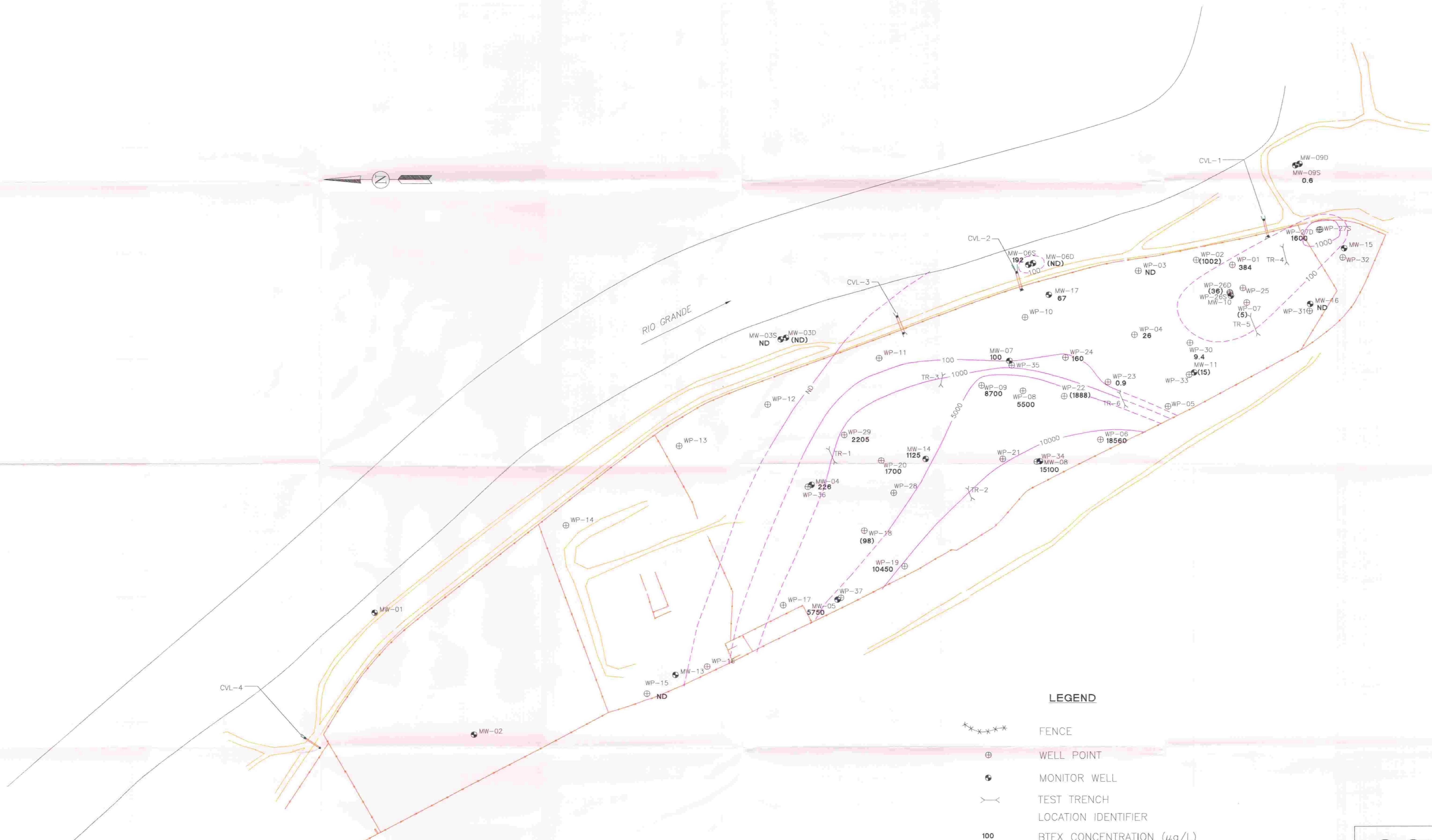
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DATE: 5/23/95
DRAWN BY: MP
CHECKED BY: JN
DWG. NO.: \REXENE\1STQTR95.DWG

**Screened Interval of Wells
at the Former Brickland Refinery Site**



Appendix E

Product Thickness Map and Contamination Isoconcentration Maps



80 40 0 200
100 60 20 100
SCALE: 1" = 100'

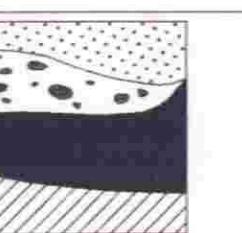
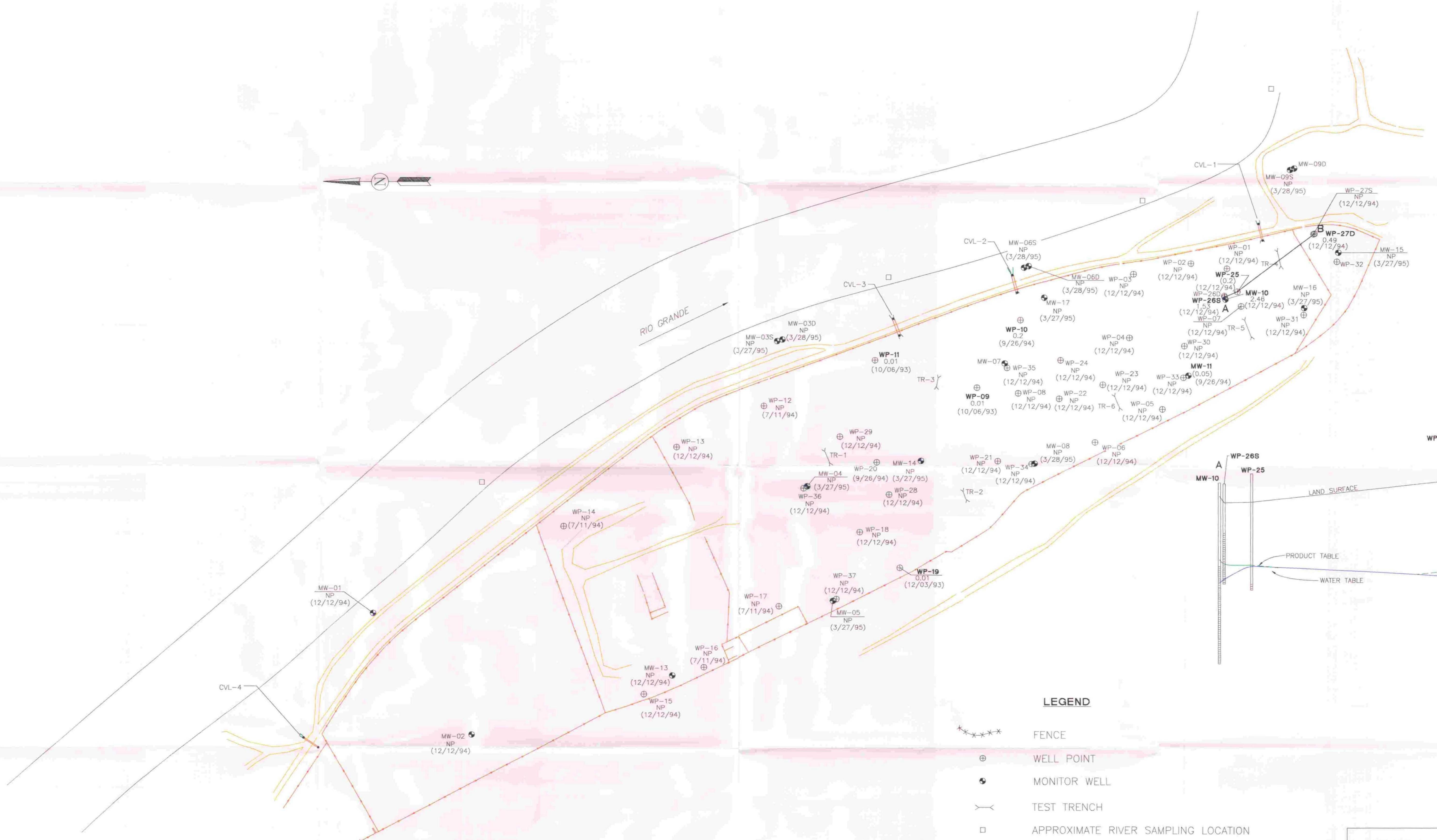
GCL 

PLATE B
BTEX CONCENTRATION
CONTOUR MAP IN
5TH QUARTER (MARCH 1995) FOR THE
FORMER BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 5/23/95
DRAWN BY: MP
CHECKED BY: JN
DWG. NO.: \REXENE\1STQTR95.DWG

RECEIVED
MAY 3 0 1995
Environmental Bureau
Oil Conservation Division



FENCE

⊕ WELL POINT

● MONITOR WELL

— TEST TRENCH

□ APPROXIMATE RIVER SAMPLING LOCATION

▨ WELL SCREEN

MW-10
2.46
(12/12/94)
(0.2)

PRODUCT THICKNESS IN PARENTHESIS FOR WELLS
WITH DEEPER SCREENED INTERVAL

NP PRODUCT NOT PRESENT

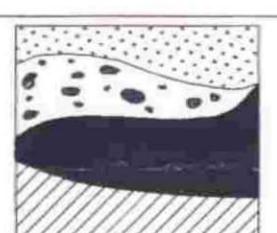
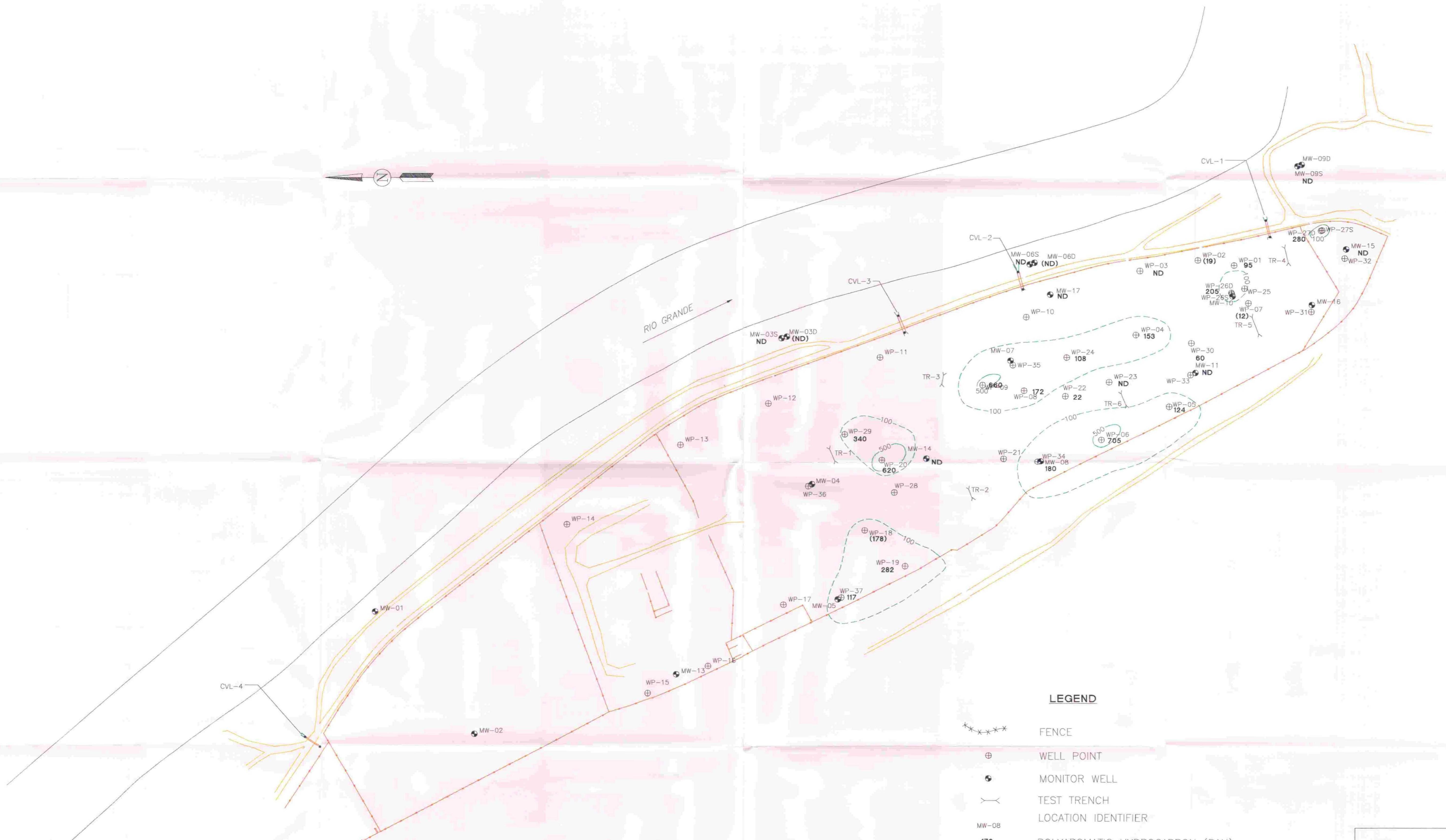


PLATE C
PRODUCT THICKNESS
MAP OF THE
FORMER BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 5/17/95
DRAWN BY: MP
CHECKED BY: JN
DWG. NO.: \REXENE\FPRDCT1.DWG
RECEIVED
MAY 30 1995
Environmental Bureau
Oil Conservation Division



LEGEND

- XXXXX FENCE
- ⊕ WELL POINT
- MONITOR WELL
- TEST TRENCH
- MW-08 LOCATION IDENTIFIER
- 172 POLYAROMATIC HYDROCARBON (PAH) CONCENTRATION ($\mu\text{g}/\text{L}$)
- ND NOT DETECTED ($<10 \mu\text{g}/\text{L}$)
- (178) CONCENTRATIONS IN PARENTHESIS WERE NOT USED IN CONTOURING BECAUSE SCREEN INTERVALS WERE AT A DEEPER DEPTH
- PAH CONCENTRATION CONTOUR (DASHED WHERE INFERRED)

GCL

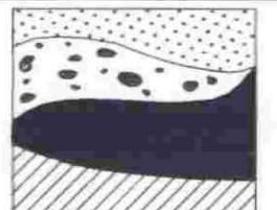


PLATE D POLYAROMATIC HYDROCARBON (PAH) CONCENTRATION CONTOUR MAP IN 5TH QUARTER (MARCH 1995) FOR THE FORMER BRICKLAND REFINERY SITE	
CLIENT: REXENE	
DATE: 5/23/95	
DRAWN BY: MP	
CHECKED BY: JN	
DWG. NO.: \REXENE\1STQTR95.DWG	

RECEIVED
MAY 30 1995

Environmental Bureau
Oil Conservation Division

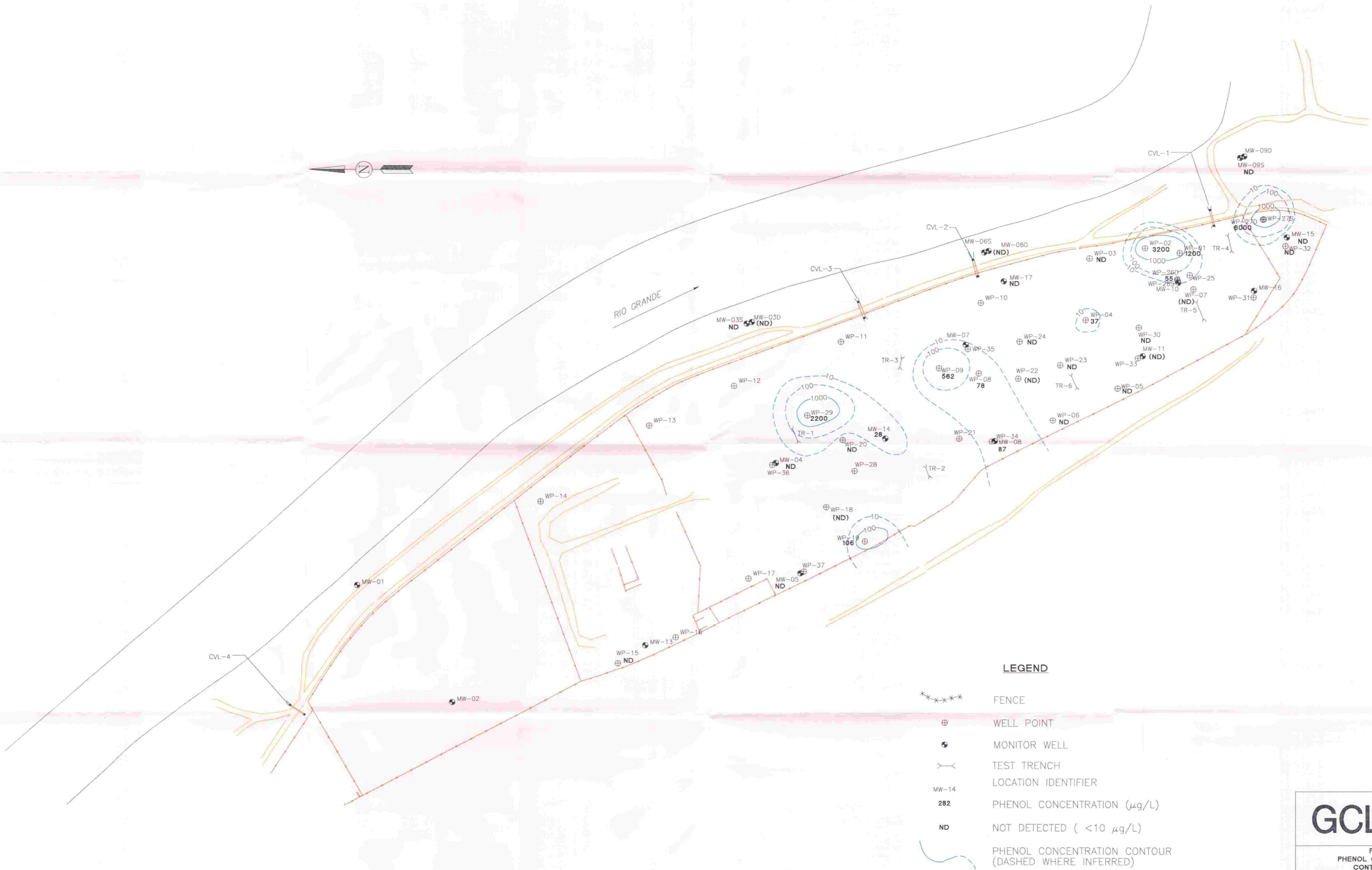


PLATE E
PHENOL CONCENTRATION
CONTOUR MAP IN
5TH QUARTER (MARCH 1995) FOR THE
FORMER BRICKLAND REFINERY SITE

CLIENT: REXENE
DATE: 5/23/95
DRAWN BY: MP
CHECKED BY: JN
DWG. NO.: \REXENE\1STQTR95.DWG

RECEIVED

MAY 30 1995

Environmental Bureau
Oil Conservation Division

Appendix F

Photoionization Measurements Results
June 1994

LITHOLOGIC LOG (CORE)

Page 1 of 1

LOCATION MAP:

The diagram consists of several hand-drawn elements. At the top, there is a horizontal line with a small square in the middle. Below this is a larger rectangle containing a diagonal line. A vertical line extends from the top of this rectangle downwards. A horizontal line extends from the right side of the rectangle downwards. Arrows point from the top-left towards the center and from the bottom-left towards the center. A large arrow points to the right at the bottom right.

Brockland

SITE ID: Reece LOCATION ID: B-2
SITE COORDINATES (ft.):
N 289205.02307 E 1551753.27625
GROUND ELEVATION (ft. MSL): 3727.39
STATE: New Mexico COUNTY:
DRILLING METHOD: Hollow Stem, Lexan Tube
DRILLING CONTR.: AE Geo Projects
DATE STARTED: 6/17/94 DATE COMPLETED: 6/17/94
FIELD REP.: Date Lithium Inc.
COMMENTS: Permit to be obtained

LOCATION DESCRIPTION:

LITHOLOGIC LOG (CORE)

Page 1 of 2

LOCATION MAP: See Map

Brickhouse

SITE ID: Rancon LOCATION ID: B-4 (MW-14)
SITE COORDINATES (ft.):
N 288991.32158 E 1551949.75780
GROUND ELEVATION (ft. MSL): 3727.59
STATE: New Mex COUNTY: Douglas County
DRILLING METHOD: Hollow Stem Auger
DRILLING CONTR.: GE Airstream
DATE STARTED: 6/19/94 DATE COMPLETED: 6-19-94
FIELD REP.: David L. Hargrave
COMMENTS: Much more sand in this well
6 ft. hole for MW-14

1/4 1/4 1/4 1/4 S T R

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	RUN			REC'D O.V.	SAMPLE		SAMPLE INTERVAL	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			#	FROM	TO		TYPE	% LD. OR READING (μ)		
0										Gravel, Fill, Debris
6			6'	2'	20			268		Silt. v fng gr, <10% sand, 20% gravel dry, Pale yellow brn (10YR 6/2), ang, poor sort, consolid,
10			2'	4'	70			400		Silty Clay, 20% silt, <10% sand, dry (10YR 2/2) HC stain, ang, consolid.
15			4'	6'	80			345		Silty Sand, 40% silt, v fng gr, wet, dk yellowish brn, (10YR 4/2), ang to sub-round, w/s, mod. consolid, No stain/odor
20			6'	8'	100			298		clay, wet, Pale Brn (5YR 3/2) consolid,
25			8'	10'	90			>1000		Silty Sand (as 3.5 - 5) No stain or odor
30			10'	12'	50			120		Silt, sand, v. fng gr, 20% silt, wet (SYR 5/2) rnd, w/s unconsolid.
35										Silty Clay (see 2')
40										Sand, fng gr, domed gr, wet, dk, yellowish brn, (10YR 4/2) Sub rnd, w/s, unconsolid (flow sand)
45										great difficulty catching split spoon sample.
50										Sand, Mrd gr, wet, dk yellowish brn, (10YR 4/2), rnd- sub rnd, well sorted, unconsolid, 80% qtz. (flow sand)

LITHOLOGIC LOG (CORE)

Page _____ of _____

LOCATION ID: _____

LITHOLOGIC LOG (CORE)

Page _____ of _____

LOCATION MAP: See Site Map.

Brockhard

ITE ID: Rexene LOCATION ID: 13-5
ITE COORDINATES (ft.): 288916.33213 E 1552038.71140
ROUND ELEVATION (ft. MSL): 3727.29
ATE: TVM COUNTY: Douglas
RILLING METHOD: Hollow, Lexan
RILLING CONTR.: Geo Projects
ATE STARTED: 6-17-94 DATE COMPLETED: 6-17-94
FIELD REP.: Dale Littlejohn
OMMENTS: _____

1/4 1/4 1/4 1/4 S T R

LOCATION DESCRIPTION:

LITHOLOGIC LOG (CORE)

Page 1 of 1

LOCATION MAP: See Map

Brickland

1/4	1/4	1/4	1/4	S	T	R
-----	-----	-----	-----	---	---	---

SITE ID: Rexxer LOCATION ID: B-6
 SITE COORDINATES (ft.): N 289163.91590 E 1552009.77426
 GROUND ELEVATION (ft. MSL): 3726.77
 STATE: NM COUNTY: Dona Ana
 DRILLING METHOD: Hollow Stem
 DRILLING CONTR.: Geo Projects
 DATE STARTED: 6-18-94 DATE COMPLETED: 6-18-94
 FIELD REP.: Dale Littlejohn
 COMMENTS:

LOCATION DESCRIPTION:

DEPTH	WELL CONST.	LITH.	RUN			REC'D	SAMPLE TYPE	P.D. OR READING (ps)	SAMPLE INTERVAL	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL. DIST. FEATURES)
			#	FROM	TO					
1	5	0.0' op								Gravel, debris & fill.
2	20	Screen	6"	2'	30		ND			Sandy Silt, v.fn grain, \approx 10% sand dry, lt brn (S YR 6/2) angular, m/s, Consolid. angular gravel, salt.
3	25	Well Point								Silty Clay, v.fn grain, $<$ 10% silt, moist, near bottom, grayish brn, (S YR 3/2) sub-rnd, w/s, HC odor, no signif. staining
4	20		2'	4'	100		225			Silty Sand, v.fn gr. 20-30% silt, wet, pale brn (S YR 5/2) Sub-ang, w/s, (HC odor) unconsolid, no signif. stain.
5	25									Silty Clay v.fn gr. 20-25% silt, wet pale brn (S YR 5/2) sub-nd, w/s
6	30									Silty Sand (as above 3-5')
7	35		4'	6'	80		850			Silty clay (as 5-5.5')
8	40		wet - FP							Sand, fn grain, $<$ 10% silt, wet, pale brn (S YR 5/2) rnd, w/s, HC odor, no stain.
9	45									* LEL to 1% During drilling
10	50									Fluid Level after drill \approx 1.0' B.S.

LITHOLOGIC LOG (CORE)

Page 1 of 1

LOCATION MAP: See Map

Brockland

B - 8

SITE ID: Kerec LOCATION ID: 5-8
SITE COORDINATES (ft.):
N 288906.33384 E 1552194.38446
GROUND ELEVATION (ft. MSL): 3728.09
STATE: NM COUNTY: Dana Ann
DRILLING METHOD: Hollow Stem
DRILLING CONTR.: Geo Projects
DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
FIELD REP.: D. L. H. (John)
COMMENTS: Near Pump Site

1/4 1/4 1/4 1/4 S T R

LOCATION DESCRIPTION:

LITHOLOGIC LOG (CORE)

Page ____ of ____

LOCATION MAP: See Map

—1/4 —1/4 —1/4 —1/4 S T R —

SITE ID: Brickland LOCATION ID: B-9
 SITE COORDINATES (ft.): N 288610.06756 E 1552150.73295
 GROUND ELEVATION (ft. MSL): 3726.81
 STATE: NM COUNTY: Dame Dame
 DRILLING METHOD: Hollow Stem
 DRILLING CONTR.: Geo Projects
 DATE STARTED: 6/18/94 DATE COMPLETED: 6/18/94
 FIELD REP.: Dale Littlejohn
 COMMENTS: Heavy Brush, no gravel, 1' ss
depths

LOCATION DESCRIPTION:

D E P T H	WELL CONST.	LITH.	RUN			R E C O V	SAMPLE		SAMPLE INTERVAL	LITHOLOGIC DESCRIPTION (LTH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			#	FROM	TO		TYPE	% LD. OR READING (pm)		
										Silty fill, organic material, debris.
-5				6"	2'	30				Sandy Silt, u.fng gr., 20% sand, dry dk yellowish brn (SYR 5/4) angular, med/sort, consolid. No stain, or odor.
-2										
2										
3				2'	4'	30				Silty Sand, fn grain, 30% silt, dry, grayish brn (SYR 5/2), rnd-sub rnd, w/s, med. consolid. No odor or stain. Wet at bottom of unit.
4										
5										
5.25										
5.5										
6										
6.25										
6.5										
7										
7.25										
7.5										
8										
8.25										
8.5										
9										
9.25										
9.5										
10										
10.25										
10.5										
11										
11.25										
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LITHOLOGIC LOG (CORE)

Page ____ of ____

LOCATION MAP:

1/4 1/4 1/4 1/4 S T R

Brickland

SITE ID: Reserve LOCATION ID: B-10
 SITE COORDINATES (ft.): N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 STATE: New Mexico COUNTY: Dona Ana
 DRILLING METHOD: Hollow Stem Auger
 DRILLING CONTR.: G.E. Proj.
 DATE STARTED: 6/20/94 DATE COMPLETED: 6/20/94
 FIELD REP.: Date Littlejohn
 COMMENTS: Review 19 Sand Area, Used Tractor Here
to mobilize Rice

LOCATION DESCRIPTION: Sand Dunes w/some sparse veg.

DEPTH	WELL CONST.	LITH.	RUN			REC'D	SAMPLE		SAMPLE INTERVAL	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			#	FROM	TO		TYPE	? LD. OR READING (ppm)		
0		Ausa Push	0	2	40		2			Sand, med gr., <10% clay, dry, Pale Yellowish brn. (10 YR 4/2), angular - sub ang., med sort, unconsolid. (Bunes)
2			2	4	40		2			Sand, Med - ln grn, ~20% silt, Dry, Mod. Yellowish brn (10 YR 5/4) Sub Ang - Sub rad, mod. sorted, unconsolid.
4			4	6	30		5			Silty Clay, v. ln grn, 40% silt, moist, Pale Yellowish brn (10 YR 1/2), consol. NO HC. stain or odor.
6			6	8	30		3			Silty Clay, v. ln grn, <10% silt, dry, Grayish brn (SYR 3/2), consol. No HC. odor, stain at base.
8			8	10	70		34			Silty Sand, v. ln grn, ~20% silt, wet, Brownish gray (SYR 4/1), qns-sub ang, w/s, mod consol., strong HC. odor, poss. HC stain.
10			10	12	60		642			Sand, Silt, ~10% silt, wet Pristine

LITHOLOGIC LOG (CORE)

Page _____ of _____

LOCATION MAP:

Brockton

SITE ID: Keweenaw LOCATION ID: B-11
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
STATE: New Mex COUNTY: Dona Ana
DRILLING METHOD: Hollow Stem Auger
DRILLING CONTR.: G-F Projects
DATE STARTED: 6/20/94 DATE COMPLETED: 6/21/94
FIELD REP.: Dee Littlejohn
COMMENTS: _____

1/4 1/4 1/4 1/4 S T R

LOCATION DESCRIPTION: Sand Dunes

LITHOLOGIC LOG (CORE)

Page 1 of 2

LOCATION MAP:

Brockman

SITE ID: Revere LOCATION ID: B-12 (mw 16)
SITE COORDINATES (ft.):
N 288177.43754 E 1552282.50963
GROUND ELEVATION (ft. MSL): 3734.27
STATE: New Mex COUNTY: Dona Ana
DRILLING METHOD: Hollow Stem Auger
DRILLING CONTR.: G-E
DATE STARTED: 6/21/94 DATE COMPLETED: 6/21/94
FIELD REP.: Dale Littlejohn
COMMENTS: Lith hole for MW-16.

LOCATION DESCRIPTION:

LITHOLOGIC LOG (CORE)

Page 2 of 2LOCATION ID: M-12
B-12

DEPTH H	WELL CONST.	LITH.	RUN			RECO V	SAMPLE		SAMPLE INTERVAL	LITHOLOGIC DESCRIPTION (LITH., USCS, GRAIN SIZE PROPORTIONS, WET COLOR, RNDG., SORT., CONSOL., DIST. FEATURES)
			#	FROM	TO		TYPE	I.D. OR READING		
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* Aquifer appears to
be confined by Clay
at. 8-11 ft B.S.

LITHOLOGIC LOG (CORE)

Page 1 of 1

LOCATION MAP: See Map

Brockwood

Brockland
Bexley LOCATION ID: B-14 (1111-11)

SITE ID: LOCATION ID:
SITE COORDINATES (ft.): N 288729.75834 E 1552306.19121

GROUND ELEVATION (ft. MSL): 3728.64

STATE: New Mexico COUNTY: Bonne Anna

DRILLING METHOD: Hollow stem

DRILLING CONTRR.: GE Projects Geo Projects
DATE STARTED: 5/20/04 DATE COMPLETED: 6/12/04

DATE STARTED: 6/26/94 DATE COMPLETED: 6/26/94
FIELD REP: Dale L. Littlejohn

FIELD REP.: Date in month
COMMENTS: Lth hole for mw-17.

COMMENTS: _____

1/4 1/4 1/4 1/4 S T R

LOCATION DESCRIPTION: Site Located on sand & gravel hill \approx 1 ft above surrounding areas.

LITHOLOGIC LOG (CORE)

Page of
LOCATION ID: B-14

Appendix G

TCLP and Waste Characterization Results

RECEIVED AUG 16 1994



Core Laboratories

CORE LABORATORIES ANALYTICAL REPORT	
Job Number:	941585
Prepared For:	
GEOSCIENCE CONSULTANTS, LTD.	
505 MARQUETTE NW, SUITE 1100	
ALBUQUERQUE, NM 87102	
Date: 08/15/94	

Linda L. Benkers
Signature

8-15-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 15, 1994

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC # 8121
Core Laboratories Project Number: 941585

On 6-28-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Method 8240 TCLP Volatiles Analysis :

The matrix spike for sample 941585-4 (9406241000) showed no detection for vinyl chloride and 19% recovery for 1,1-dichloroethylene with internal acceptable limits of 49-155%.

Linda L. Benkers
QA/QC Coordinator

James H. Travis
Laboratory Supervisor

- 8121

Chain of Custody

NASA-WSTF
PO Drawer MM
Las Cruces, NM 88004
Phone: 505-524-5353
FAX: 505-524-5315

**GCL** Environmental Science and Engineering A SDOM International Company

Analysis Request			
Samplers (SIGNATURES)	Sample Number	Matrix	Location
<i>J. A. [Signature]</i>	9406240950	Soil	Cutting 62 Contaminated
	9406241045	Soil	Cutting 62 Contaminated
	9406241110	Soil	Cutting 62 Contaminated
	9406241000	Soil	Cutting 62 Contaminated
	9406271510	H ₂ O	TRIP
Halogenated Volatiles 60/18010			
Aromatic Volatiles 60/18020			
Pesticides, Sub Pesticides 60/8040			
60/8030			
Volatile Compounds 61/0/8240			
GC/MS 625/8270			
Benzene/Neutroleum Compounds 61/0/8310			
TOC) 41/59060			
Total Organic Halides (TOX) 9020			
Hydrocarbons 418.1			
TPH/BTEX			
Modifed BTEX			
TCI-Metals (13)			
CAM Metals (16)			
TCLC/SILC			
Fresh Point			
Commodity			
Residues			
Oil & Grass			
Cyanide Total/Amanesibe			
Chemical Oxygen Demand (COD)			
Number of Containers			

*Per Analytical Director, they want TCE, metal volatility, semi-volatiles, pesticides + herbicides.
They also need ignitability, corrosivity, and hex reactivity. JKL 6-29-94*

Project Information		Sample Receipt	1. Relinquished By	2. Relinquished By	3.
Project Textile	Total No. of Containers	9	B.A. Soffes, 1530 (Signature) [Signature] [Signature] 6-27-94 (Printed Name) GCL (Company)	[Time] (Signature) [Time] (Signature) (Date) (Printed Name) (Company)	(Time) (Signature) (Time) (Signature) (Date) (Printed Name) (Company)
Project Director T. Thomas	Chain of Custody Seals	Y			
Charge Code No. 3531-004	Recd Good Condition/Cold	Y			
Shipping ID. No.	Conforms to Record	Y			
Lab No.	Received By	1. Received By	2. Received By (Laboratory)	3.	
Via: FGD EX.	941585	A. Feingold 10-22 (Signature) [Signature] [Signature] (Printed Name) GCL (Company)	J. FETGOLD 6/29/94 (Signature) [Signature] (Printed Name)	(Time) (Signature) (Time) (Signature) (Date) (Printed Name) (Company)	(Time) (Signature) (Time) (Signature) (Date) (Printed Name) (Company)
Special Instructions/Comments:					

Distribution: White, Canary-Laboratory • Pink, GCL



Core Laboratories

LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/24/94
TIME SAMPLED....: 09:50
WORK DESCRIPTION...: 9406240950

LABORATORY I.D....: 941585-0001
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST/DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Corrosivity (pH-Solid)	8.2	0.1	pH	9045 (2)	07/11/94	SGM
Ignitability (Solids)	NEG		Pos/Neg	7-7.1.2.2 (2)	07/06/94	BPB
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	07/07/94	BPB
Reactivity (H ₂ S)	100	10	mg/Kg	9030 (2)	07/07/94	BPB
Arsenic, TCLP (As)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/05/94	WGL
Barium, TCLP (Ba)	<0.5	0.5	mg/L	TCLP 6010 (2)	07/05/94	WGL
Cadmium, TCLP (Cd)	0.03	0.01	mg/L	TCLP 6010 (2)	07/05/94	WGL
Chromium, TCLP (Cr)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/05/94	WGL
Lead, TCLP (Pb)	0.38	0.05	mg/L	TCLP 6010 (2)	07/05/94	WGL
Mercury, TCLP (Hg)	<0.003	0.003	mg/L	TCLP 7470 (2)	07/14/94	LMT
Selenium, TCLP (Se)	<0.1	0.1	mg/L	TCLP 6010 (2)	07/05/94	WGL
Silver, TCLP (Ag)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/05/94	WGL
TCLP - Volatile Organics		*10		8240 (2)	07/13/94	MLA
Benzene	ND	10	ug/L			
Carbon tetrachloride	ND	50	ug/L			
Chlorobenzene	ND	50	ug/L			
Chloroform	ND	50	ug/L			
1,2-Dichloroethane	ND	50	ug/L			
1,1-Dichloroethene	ND	50	ug/L			
2-Butanone	ND	1000	ug/L			
Tetrachloroethene	ND	50	ug/L			
Trichloroethene	ND	50	ug/L			
Vinyl chloride	ND	100	ug/L			
TCLP - Base/Neutral/Acid Organics		*10		8270 (2)	07/12/94	DMJ
1,4-Dichlorobenzene	ND	100	ug/L			
2,4-Dinitrotoluene	ND	100	ug/L			
Hexachlorobenzene	ND	100	ug/L			
Hexachlorobutadiene	ND	100	ug/L			
Hexachloroethane	ND	100	ug/L			
Nitrobenzene	ND	100	ug/L			

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Aurora, CO 80014
(303) 751-1780



Core Laboratories

LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/24/94
TIME SAMPLED....: 09:50
WORK DESCRIPTION...: 9406240950

LABORATORY I.D....: 941585-0001
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN.
Pyridine	ND	100	ug/L			
o-Cresol (2-Methylphenol)	ND	100	ug/L			
m & p-Cresol (3 & 4-Methylphenol)	ND	100	ug/L			
Pentachlorophenol	ND	500	ug/L			
2,4,5-Trichlorophenol	ND	500	ug/L			
2,4,6-Trichlorophenol	ND	100	ug/L			
TCLP Pesticides		*10		8080 (2)	07/12/94	LB
Chlordane	ND	0.140	ug/L			
Endrin	ND	0.060	ug/L			
Heptachlor	ND	0.030	ug/L			
Heptachlor epoxide	ND	0.830	ug/L			
gamma-BHC	ND	0.040	ug/L			
Methoxychlor	ND	1.8	ug/L			
Toxaphene	ND	2.4	ug/L			
TCLP Herbicides		*1		8150 (2)	07/13/94	*AN
2,4-D	ND	0.005	mg/L			
2,4,5-TP (Silvex)	ND	0.001	mg/L			
TCLP ZHE Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	x			
% Liquid	<0.5	0.5	x			
% Aqueous-Extract	100	0.5	x			
% Non-aqueous-Extract	<0.5	0.5	x			
TCLP Extraction Date	07/06/94	0				
TCLP Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	x			
% Liquid	<0.5	0.5	x			
% Aqueous-Extract	100	0.5	x			
% Non-aqueous-Extract	<0.5	0.5	x			
TCLP Extraction Date	07/02/94	0				

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER:	CUSTOMER:	ATTN:				
941585	GEOSCIENCE CONSULTANTS, LTD.					
CLIENT I.D.....: REXENE COC #8121	LABORATORY I.D...: 941585-0002					
DATE SAMPLED....: 06/24/94	DATE RECEIVED....: 06/28/94					
TIME SAMPLED....: 10:45	TIME RECEIVED....: 10:00					
WORK DESCRIPTION...: 9406241045	REMARKS.....: CUTTINGS COMPOSITE					
TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Corrosivity (pH-Solid)	8.9	0.1	pH	9045 (2)	07/11/94	SGM
Ignitability (Solids)	NEG		Pos/Neg	7-7.1.2.2 (2)	07/06/94	BPB
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	07/07/94	BPB
Reactivity (H ₂ S)	393	10	mg/Kg	9030 (2)	07/07/94	BPB
Arsenic, TCLP (As)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
Barium, TCLP (Ba)	1.5	0.5	mg/L	TCLP 6010 (2)	07/06/94	GAG
Cadmium, TCLP (Cd)	0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
Chromium, TCLP (Cr)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
Lead, TCLP (Pb)	62	2	mg/L	TCLP 6010 (2)	07/06/94	GAG
Mercury, TCLP (Hg)	<0.003	0.003	mg/L	TCLP 7470 (2)	07/14/94	LMT
Selenium, TCLP (Se)	<0.1	0.1	mg/L	TCLP 6010 (2)	07/06/94	GAG
Silver, TCLP (Ag)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
TCLP - Volatile Organics		*10		8240 (2)	07/13/94	MLA
Benzene	ND	10	ug/L			
Carbon tetrachloride	ND	50	ug/L			
Chlorobenzene	ND	50	ug/L			
Chloroform	ND	50	ug/L			
1,2-Dichloroethane	ND	50	ug/L			
1,1-Dichloroethene	ND	50	ug/L			
2-Butanone	ND	1000	ug/L			
Tetrachloroethene	ND	50	ug/L			
Trichloroethene	ND	50	ug/L			
Vinyl chloride	ND	100	ug/L			
TCLP - Base/Neutral/Acid Organics		*10		8270 (2)	07/12/94	DMJ
1,4-Dichlorobenzene	ND	100	ug/L			
2,4-Dinitrotoluene	ND	100	ug/L			
Hexachlorobenzene	ND	100	ug/L			
Hexachlorobutadiene	ND	100	ug/L			
Hexachloroethane	ND	100	ug/L			
Nitrobenzene	ND	100	ug/L			

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/24/94
TIME SAMPLED....: 10:45
WORK DESCRIPTION...: 9406241045LABORATORY I.D....: 941585-0002
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Pyridine	ND	100	ug/L			
o-Cresol (2-Methylphenol)	ND	100	ug/L			
m & p-Cresol (3 & 4-Methylphenol)	ND	100	ug/L			
Pentachlorophenol	ND	500	ug/L			
2,4,5-Trichlorophenol	ND	500	ug/L			
2,4,6-Trichlorophenol	ND	100	ug/L			
TCLP Pesticides		*10		8080 (2)	07/11/94	LB
Chlordane	ND	0.140	ug/L			
Endrin	ND	0.060	ug/L			
Heptachlor	ND	0.030	ug/L			
Heptachlor epoxide	ND	0.830	ug/L			
gamma-BHC	ND	0.040	ug/L			
Methoxychlor	ND	1.8	ug/L			
Toxaphene	ND	2.4	ug/L			
TCLP Herbicides		*1		8150 (2)	07/13/94	*AN
2,4-D	ND	0.005	mg/L			
2,4,5-TP (Silvex)	ND	0.001	mg/L			
TCLP ZHE Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/06/94	0				
TCLP Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/02/94	0				

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Core Laboratories

LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/24/94
TIME SAMPLED....: 11:10
WORK DESCRIPTION...: 9406241110

LABORATORY I.D....: 941585-0003
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Corrosivity (pH-Solid)	8.6	0.1	pH	9045 (2)	07/11/94	SGM
Ignitability (Solids)	NEG		Pos/Neg	7-7.1.2.2 (2)	07/06/94	BPB
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	07/07/94	BPB
Reactivity (H ₂ S)	602	10	mg/Kg	9030 (2)	07/07/94	BPB
Arsenic, TCLP (As)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
Barium, TCLP (Ba)	0.7	0.5	mg/L	TCLP 6010 (2)	07/06/94	GAG
Cadmium, TCLP (Cd)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
Chromium, TCLP (Cr)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
Lead, TCLP (Pb)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
Mercury, TCLP (Hg)	<0.003	0.003	mg/L	TCLP 7470 (2)	07/14/94	LMT
Selenium, TCLP (Se)	<0.1	0.1	mg/L	TCLP 6010 (2)	07/06/94	GAG
Silver, TCLP (Ag)	<0.01	0.01	mg/L	TCLP 6010 (2)	07/06/94	GAG
TCLP - Volatile Organics		*10		8240 (2)	07/13/94	MLA
Benzene	ND	10	ug/L			
Carbon tetrachloride	ND	50	ug/L			
Chlorobenzene	ND	50	ug/L			
Chloroform	ND	50	ug/L			
1,2-Dichloroethane	ND	50	ug/L			
1,1-Dichloroethene	ND	50	ug/L			
2-Butanone	ND	1000	ug/L			
Tetrachloroethene	ND	50	ug/L			
Trichloroethene	ND	50	ug/L			
Vinyl chloride	ND	100	ug/L			
TCLP - Base/Neutral/Acid Organics		*10		8270 (2)	07/12/94	DMJ
1,4-Dichlorobenzene	ND	100	ug/L			
2,4-Dinitrotoluene	ND	100	ug/L			
Hexachlorobenzene	ND	100	ug/L			
Hexachlorobutadiene	ND	100	ug/L			
Hexachloroethane	ND	100	ug/L			
Nitrobenzene	ND	100	ug/L			

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/24/94
TIME SAMPLED....: 11:10
WORK DESCRIPTION...: 9406241110LABORATORY I.D...: 941585-0003
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Pyridine	ND	100	ug/L			
o-Cresol (2-Methylphenol)	ND	100	ug/L			
m & p-Cresol (3 & 4-Methylphenol)	ND	100	ug/L			
Pentachlorophenol	ND	500	ug/L			
2,4,5-Trichlorophenol	ND	500	ug/L			
2,4,6-Trichlorophenol	ND	100	ug/L			
TCLP Pesticides		*10		8080 (2)	07/11/94	LB
Chlordane	ND	0.140	ug/L			
Endrin	ND	0.060	ug/L			
Heptachlor	ND	0.030	ug/L			
Heptachlor epoxide	ND	0.830	ug/L			
gamma-BHC	ND	0.040	ug/L			
Methoxychlor	ND	1.8	ug/L			
Toxaphene	ND	2.4	ug/L			
TCLP Herbicides		*1		8150 (2)	07/13/94	*AN
2,4-D	ND	0.005	mg/L			
2,4,5-TP (Silvex)	ND	0.001	mg/L			
TCLP ZHE Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/06/94	0				
TCLP Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/02/94	0				

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED.....: 06/24/94
TIME SAMPLED.....: 10:00
WORK DESCRIPTION...: 9406241000LABORATORY I.D...: 941585-0004
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: CUTTINGS COMPOSITE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Corrosivity (pH-Solid)	8.6	0.1	pH	9045 (2)	07/11/94	SGM
Ignitability (Solids)	NEG		Pos/Neg	7-7.1.2.2 (2)	07/06/94	BPB
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	07/07/94	BPB
Reactivity (H ₂ S)	52	10	mg/Kg	9030 (2)	07/07/94	BPB
Arsenic, TCLP (As)	<0.2	0.2	mg/L	TCLP 6010 (2)	07/06/94	GAG
Barium, TCLP (Ba)	<2	2	mg/L	TCLP 6010 (2)	07/06/94	GAG
Cadmium, TCLP (Cd)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
Chromium, TCLP (Cr)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
Lead, TCLP (Pb)	4.2	0.2	mg/L	TCLP 6010 (2)	07/06/94	GAG
Mercury, TCLP (Hg)	0.003	0.003	mg/L	TCLP 7470 (2)	07/14/94	LMT
Selenium, TCLP (Se)	<0.5	0.5	mg/L	TCLP 6010 (2)	07/06/94	GAG
Silver, TCLP (Ag)	<0.05	0.05	mg/L	TCLP 6010 (2)	07/06/94	GAG
TCLP - Volatile Organics		*10		8240 (2)	07/13/94	MLA
Benzene	ND	10	ug/L			
Carbon tetrachloride	ND	50	ug/L			
Chlorobenzene	ND	50	ug/L			
Chloroform	ND	50	ug/L			
1,2-Dichloroethane	ND	50	ug/L			
1,1-Dichloroethene	ND	50	ug/L			
2-Butanone	ND	1000	ug/L			
Tetrachloroethene	ND	50	ug/L			
Trichloroethene	ND	50	ug/L			
Vinyl chloride	ND	100	ug/L			
TCLP - Base/Neutral/Acid Organics		*10		8270 (2)	07/12/94	DMJ
1,4-Dichlorobenzene	ND	100	ug/L			
2,4-Dinitrotoluene	ND	100	ug/L			
Hexachlorobenzene	ND	100	ug/L			
Hexachlorobutadiene	ND	100	ug/L			
Hexachloroethane	ND	100	ug/L			
Nitrobenzene	ND	100	ug/L			

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER:	CUSTOMER:	ATTN:				
941585	GEOSCIENCE CONSULTANTS, LTD.					
CLIENT I.D.....: REXENE COC #8121		LABORATORY I.D....: 941585-0004				
DATE SAMPLED.....: 06/24/94		DATE RECEIVED....: 06/28/94				
TIME SAMPLED.....: 10:00		TIME RECEIVED....: 10:00				
WORK DESCRIPTION....: 9406241000		REMARKS.....: CUTTINGS COMPOSITE				
TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Pyridine	ND	100	ug/L			
o-Cresol (2-Methylphenol)	ND	100	ug/L			
m & p-Cresol (3 & 4-Methylphenol)	ND	100	ug/L			
Pentachlorophenol	ND	500	ug/L			
2,4,5-Trichlorophenol	ND	500	ug/L			
2,4,6-Trichlorophenol	ND	100	ug/L			
TCLP Pesticides		*10		8080 (2)	07/11/94	LB
Chlordane	ND	0.140	ug/L			
Endrin	ND	0.060	ug/L			
Heptachlor	ND	0.030	ug/L			
Heptachlor epoxide	ND	0.830	ug/L			
gamma-BHC	ND	0.040	ug/L			
Methoxychlor	ND	1.8	ug/L			
Toxaphene	ND	2.4	ug/L			
TCLP Herbicides		*1		8150 (2)	07/13/94	*AN
2,4-D	ND	0.005	mg/L			
2,4,5-TP (Silvex)	ND	0.001	mg/L			
TCLP ZHE Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/06/94	0				
TCLP Physical Characterization		*1		1311 (2)	07/15/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	07/02/94	0				

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LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941585 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC #8121
DATE SAMPLED....: 06/27/94
TIME SAMPLED....: 15:10
WORK DESCRIPTION...: 9406271510

LABORATORY I.D....: 941585-0005
DATE RECEIVED....: 06/28/94
TIME RECEIVED....: 10:00
REMARKS.....: TRIP BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TCLP - Volatile Organics		*1		8240 (2)	07/13/94	MLA
Benzene	ND	1	ug/L			
Carbon tetrachloride	ND	5	ug/L			
Chlorobenzene	ND	5	ug/L			
Chloroform	ND	5	ug/L			
1,2-Dichloroethane	ND	5	ug/L			
1,1-Dichloroethene	ND	5	ug/L			
2-Butanone	ND	100	ug/L			
Tetrachloroethene	ND	5	ug/L			
Trichloroethene	ND	5	ug/L			
Vinyl chloride	ND	10	ug/L			

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CORE LABORATORIES ANALYTICAL REPORT	
Job Number:	942432
Prepared For:	
GEOSCIENCE CONSULTANTS, LTD.	
505 MARQUETTE NW, SUITE 1100	
ALBUQUERQUE, NM 87102	
Date: 10/18/94	

Linda L. Benkers
Signature

10-18-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

October 19, 1994

Customer: Geoscience Consultants, Ltd
Project: Rexene COC #8280
Core Laboratories Project Number: 942432

On 9-28-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Organic Analysis:

Sample 9409270625 had 1 of 6 surrogates recovered low at 42%. The EPA recommended acceptance criteria is 43% to 116%. Sample 9409270720 had 1 of 6 surrogates recovered low in the undiluted initial analysis. This sample was reanalyzed at a 2x dilution and 3 of 6 surrogates had low percent recoveries. This compound was not found in any of these samples.

Linda L. Benkers
QA/QC Coordinator

Douglas Georgic
Laboratory Supervisor



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and Engineering**
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Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3064

No 8280

Chain of Custody

Date 9/26/94 Page 1 of 1

Analysis Request			Number of Containers
Sample Number	Matrix	Location	
9409261325	Soil	TR-1	1
9409261405	Soil	TR-3	1
9409261440	Soil	TR-2	1
9409261515	Soil	TR-6	1
9409261600	Soil	TR-4	1
9409261650	Soil	TR-5	1
9409270530	H2O	MW-16	1
9409270625	H2O	MW-11	1
9409270720	H2O	MW-8	1
9409270805	H2O	MW-5	1
Relinquished By			1. Relinquished By
<u>D. NESE</u>			<u>1600</u>
Project Information			2. Relinquished By
Project <u>PERX/E</u>	Total No. of Containers	3.	
Project Director <u>TRENT T-</u>	Chain of Custody Seals	(Signature)	(Time)
Charge Code No. <u>3031.006</u>	Rec'd Good Condition/Cold	(Printed Name)	(Date)
Shipping ID. No. <u>024090984</u>	Conforms to Record	(Company)	(Company)
Via: <u>Fed X</u>	Lab No.	Received By	1. Received By
2. Received By (Laboratory)			
3. Received By (Laboratory)			
Special Instructions/Comments:			
Distribution: White, Canary-Laboratory • Pink, GCL			



Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

October 19, 1994

Customer: Geoscience Consultants, Ltd
Project: Rexene COC #8280
Core Laboratories Project Number: 942432

On 9-28-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Organic Analysis:

Sample 9409270625 had 1 of 6 surrogates recovered low at 42%. The EPA recommended acceptance criteria is 43% to 116%. Sample 9409270720 had 1 of 6 surrogates recovered low in the undiluted initial analysis. This sample was reanalyzed at a 2x dilution and 3 of 6 surrogates had low percent recoveries.

Linda L. Benkers
QA/QC Coordinator

Douglas Georgic
Laboratory Supervisor



Core Laboratories

Sample Delivery Group Narrative

October 14, 1994

Customer: Geoscience Consultants, Inc.

Project: Rexene COC#8280

Core Laboratories Project Number: 942432

The following information is pertinent to the interpretation of this data package.

During the analysis and subsequent data review, it was noted that one of the method duplicates for cadmium on 942434-010 (9409271520) was slightly outside of the acceptance range for method duplicates. The raw data was examined and no definitive answer was found for the variance. The reported values were re-verified from the raw data. Under a normal CLP reporting format, this cadmium value and all associated cadmium values would be flagged with an "*".

A handwritten signature of Linda L. Benkers.

Linda L. Benkers
QA/QC Coordinator

A handwritten signature of Timothy L. Kellogg.

Timothy L. Kellogg
Laboratory Supervisor



Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

October 19, 1994

Customer: Geoscience Consultants, Ltd
Project: Rexene COC #8289
Core Laboratories Project Number: 942434

On 9-28-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Organic Analysis:

During analysis for semivolatile organics on these samples, 1 of 6 internal standards had a low percent recovery for these samples. Sample 7 had 2 of 6 internal standards with low recoveries. All these samples were reanalyzed with similar results. These samples had a matrix problem present that interfered with the later eluting internal standards.

The result for the pentachlorophenol spike blank analyzed with these sample is incorrectly reported as 8%. This result is below the EPA recommended recovery criteria. The correct result is 9% but due to rounding limitations in Core Laboratories LIMS system 8% is reported.

Linda L. Benkers
Linda L. Benkers
QA/QC Coordinator

Douglas Georgic
Douglas Georgic
Laboratory Supervisor

Core Laboratories

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the user should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - This data flag indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - This flag refers the client to an included case narrative for additional information which may be useful in data evaluation.
- * - Used to indicate matrix interference.



Core Laboratories

LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER:	CUSTOMER:	ATTN:
942432	GEOSCIENCE CONSULTANTS, LTD.	
CLIENT I.D.....: REXENE COC#8280	LABORATORY I.D...: 942432-0001	
DATE SAMPLED....: 09/26/94	DATE RECEIVED....: 09/28/94	
TIME SAMPLED.....: 13:25	TIME RECEIVED....: 10:15	
WORK DESCRIPTION....: 9409261325	REMARKS.....: TR-1	
TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION
Lead, TCLP (Pb)	1.80	0.05
TCLP Physical Characterization		*1
% Solids	100	0.5
% Liquid	<0.5	0.5
% Aqueous-Extract	100	0.5
% Non-aqueous-Extract	<0.5	0.5
TCLP Extraction Date	09/28/94	0

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/26/94
TIME SAMPLED....: 14:05
WORK DESCRIPTION...: 9409261405

LABORATORY I.D....: 942432-0002
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: TR-3

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Lead, TCLP (Pb)	64	5	mg/L	TCLP 6010 (2)	09/30/94	GEF
TCLP Physical Characterization		*1		1311 (2)	09/28/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	09/28/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/26/94
TIME SAMPLED....: 14:40
WORK DESCRIPTION...: 9409261440

LABORATORY I.D....: 942432-0003
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: TR-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Lead, TCLP (Pb)	1.18	0.05	mg/L	TCLP 6010 (2)	09/30/94	GEF
TCLP Physical Characterization		*1		1311 (2)	09/28/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	09/28/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/26/94
TIME SAMPLED....: 15:15
WORK DESCRIPTION...: 9409261515

LABORATORY I.D...: 942432-0004
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: TR-6

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Lead, TCLP (Pb)	1.08	0.05	mg/L	TCLP 6010 (2)	09/30/94	GEF
TCLP Physical Characterization		*1		1311 (2)	09/28/94	SGM
% Solids	100	0.5	%			
% Liquid	<0.5	0.5	%			
% Aqueous-Extract	100	0.5	%			
% Non-aqueous-Extract	<0.5	0.5	%			
TCLP Extraction Date	09/28/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/26/94
TIME SAMPLED....: 16:00
WORK DESCRIPTION...: 9409261600

LABORATORY I.D....: 942432-0005
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: TR-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	09/30/94	SGM
Reactivity (H ₂ S)	<10	10	mg/Kg	9030 (2)	09/30/94	SGM

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/26/94
TIME SAMPLED....: 16:50
WORK DESCRIPTION...: 9409261650

LABORATORY I.D....: 942432-0006
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: TR-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Reactivity (HCN)	<1	1	mg/Kg	9010 (2)	09/30/94	SGM
Reactivity (H ₂ S)	<10	10	mg/Kg	9030 (2)	09/30/94	SGM

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 05:30
WORK DESCRIPTION...: 9409270530

LABORATORY I.D....: 942432-0007
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1130	5	mg/L	2320 B (3)	10/04/94	RPK
Chloride (Unfilt.)	1950	5	mg/L	325.2 (1)	10/04/94	DME
Nitrogen, Nitrate (Unfilt.)	0.9	0.1	mg/L (as N)	353.2 (1)	09/29/94	DME
Sulfate (Unfilt.)	2340	200	mg/L	375.2 (1)	10/06/94	DME
Aluminum, Diss. (Al)	0.12	0.05	mg/L	6010 (2)	10/04/94	GEF
Arsenic, Diss. (As)	0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Barium, Diss. (Ba)	0.09	0.01	mg/L	6010 (2)	10/04/94	GEF
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	10/04/94	GEF
Calcium, Total (Ca)	261	0.1	mg/L	6010 (2)	09/30/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	10/04/94	GEF
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Iron, Diss. (Fe)	2.05	0.03	mg/L	6010 (2)	10/04/94	GEF
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	10/06/94	LMT
Magnesium, Total (Mg)	108	0.1	mg/L	6010 (2)	09/30/94	WGL
Manganese, Diss. (Mn)	5.21	0.01	mg/L	6010 (2)	10/04/94	GEF
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Nickel, Diss. (Ni)	0.06	0.04	mg/L	6010 (2)	10/04/94	GEF
Potassium, Total (K)	33.5	0.5	mg/L	6010 (2)	09/30/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	10/04/94	GEF
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Sodium, Total (Na)	1510	50	mg/L	6010 (2)	09/30/94	WGL

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 05:30
WORK DESCRIPTION...: 9409270530

LABORATORY I.D....: 942432-0007
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.02	0.01	mg/L	6010 (2)	10/04/94	GEF
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	10/10/94	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	107	0	% Recovery	85-115% Limit		
Time Analyzed	1046	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	10/04/94	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenz(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	87	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	82	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	85	0	% Recovery	33-141% Limit		

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 05:30
WORK DESCRIPTION...: 9409270530

LABORATORY I.D...: 942432-0007
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Phenol-d6 (Surrogate)	28	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	68	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	102	0	% Recovery	10-123% Limit		
Time Analyzed	1541	0				
Date Extracted	09/30/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 06:25
WORK DESCRIPTION...: 9409270625

LABORATORY I.D....: 942432-0008
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	10/10/94	JHT
Benzene	15	0.5	ug/L			
Toluene	2.3	0.5	ug/L			
Ethyl benzene	8.9	0.5	ug/L			
Xylenes	9.4	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	94	0	% Recovery	85-115% Limit		
Time Analyzed	1121	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	10/04/94	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenz(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	12	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	120	10	ug/L			
2-Methylnaphthalene	18	10	ug/L			
Naphthalene	35	10	ug/L			
Phenanthrene	32	10	ug/L			
Pyrene	16	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	98	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	42 *	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	37	0	% Recovery	33-141% Limit		

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 06:25
WORK DESCRIPTION...: 9409270625

LABORATORY I.D....: 942432-0008
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Phenol-d6 (Surrogate)	91	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	76	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	44	0	% Recovery	10-123% Limit		
Time Analyzed	1645	0				
Date Extracted	09/30/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 07:20
WORK DESCRIPTION...: 9409270720

LABORATORY I.D....: 942432-0009
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	2930	5	mg/L	2320 B (3)	10/04/94	RPK
Chloride (Unfilt.)	1450	4.0	mg/L	325.2 (1)	10/04/94	DME
Nitrogen, Nitrate (Unfilt.)	0.1	0.1	mg/L (as N)	353.2 (1)	09/29/94	DME
Sulfate (Unfilt.)	73	10	mg/L	375.2 (1)	10/05/94	DME
Aluminum, Diss. (Al)	0.21	0.05	mg/L	6010 (2)	10/04/94	GEF
Arsenic, Diss. (As)	0.18	0.05	mg/L	6010 (2)	10/04/94	GEF
Barium, Diss. (Ba)	0.74	0.01	mg/L	6010 (2)	10/04/94	GEF
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	10/04/94	GEF
Calcium, Total (Ca)	47.2	0.1	mg/L	6010 (2)	09/30/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	10/04/94	GEF
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Iron, Diss. (Fe)	5.10	0.03	mg/L	6010 (2)	10/04/94	GEF
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	10/06/94	LMT
Magnesium, Total (Mg)	38.2	0.1	mg/L	6010 (2)	09/30/94	WGL
Manganese, Diss. (Mn)	0.18	0.01	mg/L	6010 (2)	10/04/94	GEF
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	10/04/94	GEF
Potassium, Total (K)	29.8	0.1	mg/L	6010 (2)	09/30/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	10/04/94	GEF
Silver, Diss. (Ag)	0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Sodium, Total (Na)	1550	50	mg/L	6010 (2)	09/30/94	WGL

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

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ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 07:20
WORK DESCRIPTION...: 9409270720

LABORATORY I.D...: 942432-0009
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.03	0.01	mg/L	6010 (2)	10/04/94	GEF
602 - VOLATILE AROMATIC ORGANICS		*200		602 (6)	10/10/94	JHT
Benzene	13000	100	ug/L			
Toluene	ND	100	ug/L			
Ethyl benzene	ND	100	ug/L			
Xylenes	ND	100	ug/L			
4-Bromofluorobenzene (surrogate)	103	0	% Recovery	85-115% Limit		
Time Analyzed	1535	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	10/04/94	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	61	10	ug/L			
2-Methylnaphthalene	75	10	ug/L			
Naphthalene	230	20	ug/L			
Phenanthren	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	110	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	67	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	71	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	33	0	% Recovery	33-141% Limit		

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 07:20
WORK DESCRIPTION...: 9409270720

LABORATORY I.D...: 942432-0009
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Phenol-d6 (Surrogate)	14	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	69	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	0 *	0	% Recovery	10-123% Limit		
Time Analyzed	1749	0				
Date Extracted	09/30/94	0				
Semi-Volatile Organic - Surrogates		*2		8270(2)/625(6)	10/10/94	JMC
Nitrobenzene-d5 (Surrogate)	57	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	76	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	31 *	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	2 *	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	75	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	0 *	0	% Recovery	10-123% Limit		
Date Extracted	09/30/94	0				
Time Analyzed	1342	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 08:05
WORK DESCRIPTION...: 9409270805

LABORATORY I.D....: 942432-0010
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1630	5	mg/L	2320 B (3)	10/04/94	RPK
Chloride (Unfilt.)	4310	25	mg/L	325.2 (1)	10/17/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	09/29/94	DME
Sulfate (Unfilt.)	904	50	mg/L	375.2 (1)	10/05/94	DME
Aluminum, Diss. (Al)	0.12	0.05	mg/L	6010 (2)	10/04/94	GEF
Arsenic, Diss. (As)	0.08	0.05	mg/L	6010 (2)	10/04/94	GEF
Barium, Diss. (Ba)	0.18	0.01	mg/L	6010 (2)	10/04/94	GEF
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	10/04/94	GEF
Calcium, Total (Ca)	620	10	mg/L	6010 (2)	09/30/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	10/04/94	GEF
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Iron, Diss. (Fe)	0.17	0.03	mg/L	6010 (2)	10/04/94	GEF
Pearl, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	10/06/94	LMT
Magnesium, Total (Mg)	186	0.1	mg/L	6010 (2)	09/30/94	WGL
Manganese, Diss. (Mn)	0.03	0.01	mg/L	6010 (2)	10/04/94	GEF
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	10/04/94	GEF
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	10/04/94	GEF
Potassium, Total (K)	60	5	mg/L	6010 (2)	09/30/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	10/04/94	GEF
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	10/04/94	GEF
Sodium, Total (Na)	3040	50	mg/L	6010 (2)	09/30/94	WGL

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 08:05
WORK DESCRIPTION...: 9409270805

LABORATORY I.D....: 942432-0010
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Inc, Diss. (Zn)	0.02	0.01	mg/L	6010 (2)	10/04/94	GEF
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	10/10/94	JHT
Benzene	5600	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	ND	50	ug/L			
Xylenes	160	50	ug/L			
4-Bromofluorobenzene (surrogate)	103	0	% Recovery	85-115% Limit		
Time Analyzed	1417	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	10/04/94	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	110	10	ug/L			
2-Methylnaphthalene	32	10	ug/L			
Naphthalene	49	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	99	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	87	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	81	0	% Recovery	33-141% Limit		

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC#8280
DATE SAMPLED....: 09/27/94
TIME SAMPLED....: 08:05
WORK DESCRIPTION...: 9409270805

LABORATORY I.D....: 942432-0010
DATE RECEIVED....: 09/28/94
TIME RECEIVED....: 10:15
REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Phenol-d6 (Surrogate)	78	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	63	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	96	0	% Recovery	10-123% Limit		
Time Analyzed	1853	0				
Date Extracted	09/30/94	0				

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LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

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CLIENT I.D.....:
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANKLABORATORY I.D....: 942432-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
502 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	10/10/94	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	105	0	% Recovery	85-115% Limit		
Time Analyzed	1011	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	10/04/94	JMC
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	75	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	67	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	64	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	55	0	% Recovery	21-100% Limit		

10703 East Bethany Drive
Aurora, CO 80014
(303) 751-1780



Core Laboratories

LABORATORY TESTS RESULTS 10/18/94

JOB NUMBER: 942432 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.....
DATE SAMPLED....: / /
TIME SAMPLED....: :
WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D...: 942432-0011
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate) Time Analyzed Date Extracted	50 1251 09/30/94	0 0 0	% Recovery	10-123% Limit		

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