

AP - 001

ANNUAL MONITORING REPORT

YEAR(S):

1994

October 12, 1994

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REX87.LTR

OCT 13 1994

OIL CONSERVATION DIV.
SANTA FE

Mr. Bill Olson
Oil Conservation Division
Land Office Building
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

RE: ANALYTICAL DATA AND MONITOR WELL SUMMARY

Dear Mr. Olson:

Enclosed you will find copies of the analytical data and monitor well summary sheets for the quarterly sampling event conducted in June 1994. The data for the wells that have been sampled previously do not appear to vary significantly from prior results. The data from the new wells (MW-14, MW-15, MW-16, MW-17) is also included. We will continue to sample these new wells on a quarterly basis also.

We are planning to submit the final report regarding the recent site investigation to NMOCD in late-October. This report will present the physical and chemical data obtained for the soil borings, trenches, and the on-going groundwater sampling program.

One of the composite samples from the trench excavations that were analyzed for hazardous waste characteristics exceeded the FCLP regulatory level for lead. These excavated soils will be shipped off-site for disposal at a permitted facility. We are proposing that the soils that do not exhibit hazardous characteristics be spread out at a suitable location at the site to enhance aeration and degradation and that the trenches be back-filled with clean soil.

We would like to schedule a meeting with you in Santa Fe sometime after you have had a chance to review the site investigation report. We would propose to meet with you sometime in early December to discuss the results and future activities. If I can provide any additional information please feel free to contact me at (505) 842-0001.

Very truly yours,
Geoscience Consultants, Ltd. (GCL)

Trent H. Thomas

Trent H. Thomas
Program Manager

THI/jg/54159/REX87.LTR

cc: Todd Carver, Rexene Corporation
Rob Sutphen, Rexene Corporation
Reggie Baker, Rexene Corporation
Ned Kendrick, Montgomery & Andrews
OCD Artesia Office

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

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

3031/PAH/MW-1.WQ2

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

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

3031/PAH/MW-2.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				
Acenaphthene	None	ND	ND	ND				
Acenaphthylene	None	ND	ND	ND				
Anthracene	TP	ND	ND	ND				
Benzo(a)anthracene	None	ND	ND	ND				
Benzo(b)fluoranthene	None	ND	ND	ND				
Benzo(k)fluoranthene	TP	ND	ND	ND				
Benzo(g,h,i)perylene	None	ND	ND	ND				
Benzo(a)pyrene	0.7	ND	ND	ND				
Chrysene	None	ND	ND	ND				
Dibenzo(a,h)anthracene	None	ND	ND	ND				
Fluoranthene	TP	ND	ND	ND				
Fluorene	TP	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND				
1-Methylnaphthalene	TP	NA	ND	ND				
2-Methylnaphthalene	TP	NA	ND	ND				
Naphthalene	30 *	ND	ND	ND				
Phenanthrene	TP	ND	ND	ND				
Pyrene	TP	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

3031/PAH/MW-3S.WQ2

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				
Acenaphthene	None	ND	ND	ND				
Acenaphthylene	None	ND	ND	ND				
Anthracene	TP	ND	ND	ND				
Benzo(a)anthracene	None	ND	ND	ND				
Benzo(b)fluoranthene	None	ND	ND	ND				
Benzo(k)fluoranthene	TP	ND	ND	ND				
Benzo(g,h,i)perylene	None	ND	ND	ND				
Benzo(a)pyrene	0.7	ND	ND	ND				
Chrysene	None	ND	ND	ND				
Dibenzo(a,h)anthracene	None	ND	ND	ND				
Fluoranthene	TP	ND	ND	ND				
Fluorene	TP	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND				
1-Methylnaphthalene	TP	NA	ND	ND				
2-Methylnaphthalene	TP	NA	ND	ND				
Naphthalene	30 *	ND	ND	ND				
Phenanthrene	TP	ND	ND	ND				
Pyrene	TP	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

3031/PAH/MW-3D.WQ2

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

Parameter	WQCC Std.	12/08/93	03/23/94	6/27/94				
Acenaphthene	None	NS	ND,ND	ND				
Acenaphthylene	None	NS	ND,ND	ND				
Anthracene	TP	NS	ND,ND	ND				
Benzo(a)anthracene	None	NS	ND,ND	ND				
Benzo(b)fluoranthene	None	NS	ND,ND	ND				
Benzo(k)fluoranthene	TP	NS	ND,ND	ND				
Benzo(g,h,i)perylene	None	NS	ND,ND	ND				
Benzo(a)pyrene	0.7	NS	ND,ND	ND				
Chrysene	None	NS	ND,ND	ND				
Dibenzo(a,h)anthracene	None	NS	ND,ND	ND				
Fluoranthene	TP	NS	ND,ND	ND				
Fluorene	TP	NS	ND,ND	ND				
Indeno(1,2,3-cd)pyrene	None	NS	ND,ND	ND				
1-Methylnaphthalene	TP	NS	ND,ND	ND				
2-Methylnaphthalene	TP	NS	ND,ND	ND				
Naphthalene	30 *	NS	ND,ND	ND				
Phenanthrene	TP	NS	ND,ND	ND				
Pyrene	TP	NS	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

3031/PAH/MW-4.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			
Acenaphthene	None	NS	ND	ND			
Acenaphthylene	None	NS	ND	ND			
Anthracene	TP	NS	ND	ND			
Benzo(a)anthracene	None	NS	ND	ND			
Benzo(b)fluoranthene	None	NS	ND	ND			
Benzo(k)fluoranthene	TP	NS	ND	ND			
Benzo(g,h,i)perylene	None	NS	ND	ND			
Benzo(a)pyrene	0.7	NS	ND	ND			
Chrysene	None	NS	ND	ND			
Dibenzo(a,h)anthracene	None	NS	ND	ND			
Fluoranthene	TP	NS	ND	ND			
Fluorene	TP	NS	ND	ND			
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND			
1-Methylnaphthalene	TP	NS	79	78			
2-Methylnaphthalene	TP	NS	ND	12			
Naphthalene	30 *	NS	28	27			
Phenanthrene	TP	NS	ND	ND			
Pyrene	TP	NS	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

3031/PAH/MW-5.WQ2

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				
Acenaphthene	None	ND	ND	ND				
Acenaphthylene	None	ND	ND	ND				
Anthracene	TP	ND	ND	ND				
Benzo(a)anthracene	None	ND	ND	ND				
Benzo(b)fluoranthene	None	ND	ND	ND				
Benzo(k)fluoranthene	TP	ND	ND	ND				
Benzo(g,h,i)perylene	None	ND	ND	ND				
Benzo(a)pyrene	0.7	ND	ND	ND				
Chrysene	None	ND	ND	ND				
Dibenzo(a,h)anthracene	None	ND	ND	ND				
Fluoranthene	TP	ND	ND	ND				
Fluorene	TP	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND				
1-Methylnaphthalene	TP	NA	ND	ND				
2-Methylnaphthalene	TP	NA	ND	ND				
Naphthalene	30 *	ND	ND	ND				
Phenanthrene	TP	ND	ND	ND				
Pyrene	TP	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

3031/PAH/MW-6S.WQ2

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

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

3031/PAH/MW-6D.WQ2

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

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94				
Acenaphthene	None	NS	ND	ND				
Acenaphthylene	None	NS	ND	ND				
Anthracene	TP	NS	ND	ND				
Benzo(a)anthracene	None	NS	ND	ND				
Benzo(b)fluoranthene	None	NS	ND	ND				
Benzo(k)fluoranthene	TP	NS	ND	ND				
Benzo(g,h,i)perylene	None	NS	ND	ND				
Benzo(a)pyrene	0.7	NS	ND	ND				
Chrysene	None	NS	ND	ND				
Dibenzo(a,h)anthracene	None	NS	ND	ND				
Fluoranthene	TP	NS	ND	ND				
Fluorene	TP	NS	ND	ND				
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND				
1-Methylnaphthalene	TP	NS	ND	ND				
2-Methylnaphthalene	TP	NS	ND	ND				
Naphthalene	30 *	NS	ND	ND				
Phenanthrene	TP	NS	ND	ND				
Pyrene	TP	NS	ND	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

3031/PAH/MW-7.WQ2

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				
Acenaphthene	None	NS	ND	ND				
Acenaphthylene	None	NS	ND	ND				
Anthracene	TP	NS	ND	ND				
Benzo(a)anthracene	None	NS	ND	ND				
Benzo(b)fluoranthene	None	NS	ND	ND				
Benzo(k)fluoranthene	TP	NS	ND	ND				
Benzo(g,h,i)perylene	None	NS	ND	ND				
Benzo(a)pyrene	0.7	NS	ND	ND				
Chrysene	None	NS	ND	ND				
Dibenzo(a,h)anthracene	None	NS	ND	ND				
Fluoranthene	TP	NS	ND	ND				
Fluorene	TP	NS	ND	ND				
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND				
1-Methylnaphthalene	TP	NS	46	ND				
2-Methylnaphthalene	TP	NS	64	ND				
Naphthalene	30 *	NS	140	93				
Phenanthrene	TP	NS	ND	ND				
Pyrene	TP	NS	ND	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

3031/PAH/MW-8.WQ2

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			
Acenaphthene	None	ND	ND	ND			
Acenaphthylene	None	ND	ND	ND			
Anthracene	TP	ND	ND	ND			
Benzo(a)anthracene	None	ND	ND	ND			
Benzo(b)fluoranthene	None	ND	ND	ND			
Benzo(k)fluoranthene	TP	ND	ND	ND			
Benzo(g,h,i)perylene	None	ND	ND	ND			
Benzo(a)pyrene	0.7	ND	ND	ND			
Chrysene	None	ND	ND	ND			
Dibenzo(a,h)anthracene	None	ND	ND	ND			
Fluoranthene	TP	ND	ND	ND			
Fluorene	TP	ND	ND	ND			
Indeno(1,2,3-cd)pyrene	None	ND	ND	ND			
1-Methylnaphthalene	TP	NA	ND	ND			
2-Methylnaphthalene	TP	NA	ND	ND			
Naphthalene	30 *	ND	ND	ND			
Phenanthrene	TP	ND	ND	ND			
Pyrene	TP	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

3031/PAH/MW-9S.WQ2

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				
Acenaphthene	None	NS	ND	ND				
Acenaphthylene	None	NS	ND	ND				
Anthracene	TP	NS	ND	ND				
Benzo(a)anthracene	None	NS	ND	ND				
Benzo(b)fluoranthene	None	NS	ND	ND				
Benzo(k)fluoranthene	TP	NS	ND	ND				
Benzo(g,h,i)perylene	None	NS	ND	ND				
Benzo(a)pyrene	0.7	NS	ND	ND				
Chrysene	None	NS	ND	ND				
Dibenzo(a,h)anthracene	None	NS	ND	ND				
Fluoranthene	TP	NS	ND	ND				
Fluorene	TP	NS	ND	ND				
Indeno(1,2,3-cd)pyrene	None	NS	ND	ND				
1-Methylnaphthalene	TP	NS	29	ND				
2-Methylnaphthalene	TP	NS	ND	ND				
Naphthalene	30 *	NS	ND	ND				
Phenanthrene	TP	NS	ND	ND				
Pyrene	TP	NS	ND	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

3031/PAH/MW-11.WQ2

MW-12
Brickland Refinery Site
Quarterly Analytical Results
 (All results in ug/l)

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

3031/PAH/MW-12.WQ2

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

Parameter	WQCC Std.	06/28/94					
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	180					
Naphthalene	30 *	230					
Phenanthrene	TP	ND					
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

3031/PAH/MW-14.WQ2

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

Parameter	WQCC Std.	06/28/94						
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	61						
2-Methylnaphthalene	TP	41						
Naphthalene	30 *	15						
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

3031/PAH/MW-15.WQ2

MW-16
Brickland Refinery Site
Quarterly Analytical Results
 (All results in ug/l)

Parameter	WQCC Std.	06/28/94	07/12/94				
Acenaphthene	None	ND	ND,ND				
Acenaphthylene	None	ND	ND,ND				
Anthracene	TP	ND	ND,ND				
Benzo(a)anthracene	None	ND	ND,ND				
Benzo(b)fluoranthene	None	ND	ND,ND				
Benzo(k)fluoranthene	TP	ND	ND,ND				
Benzo(g,h,i)perylene	None	ND	ND,ND				
Benzo(a)pyrene	0.7	ND	ND,ND				
Chrysene	None	ND	ND,ND				
Dibenzo(a,h)anthracene	None	ND	ND,ND				
Fluoranthene	TP	ND	ND,ND				
Fluorene	TP	ND	ND,ND				
Indeno(1,2,3-cd)pyrene	None	ND	ND,ND				
1-Methylnaphthalene	TP	NA	ND,ND				
2-Methylnaphthalene	TP	NA	ND,ND				
Naphthalene	30 *	ND	ND,ND				
Phenanthrene	TP	ND	ND,ND				
Pyrene	TP	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

3031/PAH/MW-16.WQ2

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

Parameter	WQCC Std.	06/28/94					
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	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 monomethylnaphthalenes

NS = Not sampled

ND = Not detected

NA = Not analyzed

TP = WQCC toxic pollutant

3031/PAH/MW-17.WQ2

RECEIVED AUG 16 1994



Core Laboratories

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 941727
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 08/15/94


Signature

8-15-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR

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**Environmental Science
and Engineering**

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

No. 8358

Chain of Custody

Date July 12, 1994 page 3 of 3

[illegible]

Distribution: White, Canary-Laboratory • Pink, GCL

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 15, 1994

Customer: Geoscience Consultants, Ltd.

Project: Rexene COC # 8358

Core Laboratories Project Number: 941727

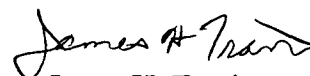
On 7-13-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Method 8020 GC Analysis :

The analysis run on 7-19-94 was not started with an initial CCV. The CCV 10 samples later passed. This affected sample 941727-1 (9407121545).



Linda L. Benkers
QA/QC Coordinator



James H. Travis
Laboratory Supervisor

Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8358

DATE SAMPLED: 07/12/94

TIME SAMPLED: 15:45

WORK DESCRIPTION: 9407121545

LABORATORY I.D.: 941727-0001

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	0.6	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	104	0	% Recovery	85-115% Limit		
Time Analyzed	1828	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8358

DATE SAMPLED: 07/12/94

TIME SAMPLED: 15:50

WORK DESCRIPTION: 9407121550

LABORATORY I.D.: 941727-0002

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: FIELD BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	<5	5	mg/L	403 (3)	07/25/94	KDS
Chloride (Unfilt.)	<0.5	0.5	mg/L	325.2 (1)	07/25/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
Sulfate (Unfilt.)	<10	10	mg/L	375.2 (1)	07/26/94	DME
Calcium, Total (Ca)	0.3	0.1	mg/L	6010 (2)	07/26/94	WGL
Magnesium, Total (Mg)	<0.1	0.1	mg/L	6010 (2)	07/26/94	WGL
Potassium, Total (K)	<0.1	0.1	mg/L	6010 (2)	07/26/94	WGL
Sodium, Total (Na)	0.8	0.1	mg/L	6010 (2)	07/26/94	WGL
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	103	0	% Recovery	85-115% Limit		
Time Analyzed	0002	0				
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			

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Core Laboratories

LABORATORY TESTS RESULTS 08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8358

DATE SAMPLED: 07/12/94

TIME SAMPLED: 15:50

WORK DESCRIPTION: 9407121550

LABORATORY I.D.: 941727-0002

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: FIELD BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrobenzene-d5 (Surrogate)	88	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	105	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	127	0	% Recovery	33-141% Limit		
Time Analyzed	2010	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
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)	88	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	105	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	127	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	88	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	79	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	102	0	% Recovery	10-123% Limit		
Time Analyzed	2010	0				
Date Extracted	07/15/94	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8358

DATE SAMPLED: 07/12/94

TIME SAMPLED: 16:00

WORK DESCRIPTION: 9407121600

LABORATORY I.D.: 941727-0003

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: TRIP BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	0038	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8358

DATE SAMPLED: 07/12/94

TIME SAMPLED: 16:05

WORK DESCRIPTION: 9407121605

LABORATORY I.D.: 941727-0004

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: TRIP BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	0114	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

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ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 941727-0005

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)	07/19/94	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)	100	0	% Recovery	85-115% Limit		
Time Analyzed	2240	0				
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			
Nitrobenzene-d5 (Surrogate)	56	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	91	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	107	0	% Recovery	33-141% Limit		
Time Analyzed	1245	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
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			

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LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

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

LABORATORY I.D....: 941727-0005
DATE RECEIVED.....: / /
TIME RECEIVED.....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	56	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	91	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	107	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	51	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	53	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	33	0	% Recovery	10-123% Limit		
Time Analyzed	1245	0				
Date Extracted	07/15/94	0				

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LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

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

LABORATORY I.D....: 941727-0006
DATE RECEIVED.....: / /
TIME RECEIVED.....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
8020 - AROMATIC VOLATILE ORGANICS		*1		602 (6)	07/18/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	2025	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.:
DATE SAMPLED: / /

TIME SAMPLED: :

WORK DESCRIPTION: METHOD BLANK

LABORATORY I.D.: 941727-0007

DATE RECEIVED: / /

TIME RECEIVED: :

REMARKS:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
8020 - AROMATIC VOLATILE ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	1156	0				

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(303) 751-1780

Core Laboratories

QUALITY CONTROL REPORT 08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Nitrogen, Nitrate (Unfilt.)				DATE/TIME ANALYZED:07/14/94 05:55				QC BATCH NUMBER:301940		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L (as N)				METHOD REFERENCE :353.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
STANDARD	ICV/LCS	G9310138	1.0			1.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941724-10	1.0					<0.1	1.0	100
SPIKE	MS	941725-10	1.0					<0.1	1.0	100
SPIKE	MS	941738-1	1.5					0.5	1.0	100
DUPLICATE	MD	941724-10	<0.1	<0.1	NC					
DUPLICATE	MD	941725-10	<0.1	<0.1	NC					
DUPLICATE	MD	941738-1	0.5	0.5	0.0					
PARAMETER:Chloride (Unfilt.)				DATE/TIME ANALYZED:07/25/94 09:30				QC BATCH NUMBER:302673		
REPORTING LIMIT/DF: 0.5 UNITS:mg/L				METHOD REFERENCE :325.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940725	<0.5							
BLANK	CCB	940725	<0.5							
BLANK	CCB	940725	<0.5							
BLANK	CCB	940725	<0.5							
STANDARD	ICV/LCS	G931229C	50.3			50.0	101			
STANDARD	CCV	S160	158			160	99			
STANDARD	CCV	S160	160			160	100			
STANDARD	CCV	S160	161			160	101			
SPIKE	MS	941727-2	51.2					<0.5	50.0	102
SPIKE	MS	940673-332	99.2					1.3	100	98
SPIKE	MS	940673-324	95.1					<0.5	100	95
DUPLICATE	MD	940673-324	<0.5	<0.5	NC					
DUPLICATE	MD	940673-332	1.3	1.4	0.1					
DUPLICATE	MD	941727-2	<0.5	<0.5	NC					
PARAMETER:Bicarbonate (Unfilt.)				DATE/TIME ANALYZED:07/25/94 21:30				QC BATCH NUMBER:302729		
REPORTING LIMIT/DF: 5 UNITS:mg/L				METHOD REFERENCE :2320 B (3)				TECHNICIAN:KDS		
BLANK	MB	940725	<5							
DUPLICATE	MD	941725-3	723	710	2					
PARAMETER:Calcium, Total (Ca)				DATE/TIME ANALYZED:07/26/94 11:23				QC BATCH NUMBER:302852		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							

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ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Calcium, Total (Ca)
REPORTING LIMIT/DF: 0:1 **UNITS:** mg/L

DATE/TIME ANALYZED: 07/26/94 11:23
METHOD REFERENCE : :6010 (2)

QC BATCH NUMBER: 302852
TECHNICIAN: WGL

BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	103			100	103			
STANDARD	CCV	0511K	95.9			100	96			
STANDARD	ISA	0609A	464			500	93			
STANDARD	CCV	0511K	98.7			100	99			
STANDARD	ISA	0609A	434			500	87			
STANDARD	ISB	0710A	423			500	85			
STANDARD	CCV	0511K	95.8			100	96			
STANDARD	CCV	0511K	92.6			100	93			
STANDARD	CCV	0511K	99.7			100	100			
STANDARD	CCV	0511K	94.7			100	95			
STANDARD	ISB	0710A	431			500	86			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	94.3			100	94			
STANDARD	ISA	0609A	438			500	88			
STANDARD	ISB	0710A	421			500	84			
STANDARD	CCV	0511K	96.7			100	97			
STANDARD	LCS	0426G	93.6			100	94			
SPIKE	PDS	941727-002	47.8					0.3	50.0	95
SPIKE	MS	941745-001	258					215	50.0	86
SPIKE	MS	941785-013	49.4					<0.1	50.0	99
DUPLICATE	MD	941785-004	61.3	62.4	2					
DUPLICATE	MD	941745-003	89.0	89.1	0					

PARAMETER: Potassium, Total (K)
REPORTING LIMIT/DF: 0:1 **UNITS:** mg/L

DATE/TIME ANALYZED: 07/26/94 15:46
METHOD REFERENCE : :6010 (2)

QC BATCH NUMBER: 302857
TECHNICIAN: WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Potassium, Total (K)

DATE/TIME ANALYZED: 07/26/94 15:46

QC BATCH NUMBER: 302857

REPORTING LIMIT/DF: 0.1 UNITS: mg/L

METHOD REFERENCE: 6010 (2)

TECHNICIAN: WGL

BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0712E	10.9			10.0	109			
STANDARD	LCS	0708H	10.4			10.0	104			
STANDARD	CCV	0712E	10.5			10.0	105			
STANDARD	CCV	0712E	9.6			10.0	96			
STANDARD	ISB	0710A	9.8			10.0	98			
STANDARD	CCV	0712E	10.1			10.0	101			
STANDARD	ISB	0710A	8.3			10.0	83			
STANDARD	CCV	0712E	10.7			10.0	107			
STANDARD	CCV	0712E	9.4			10.0	94			
STANDARD	CCV	0712E	11.0			10.0	110			
STANDARD	CCV	0712E	10.2			10.0	102			
STANDARD	ICV	0314B	9.6			10.0	96			
STANDARD	CCV	0712E	10.5			10.0	105			
STANDARD	LCS	0708H	9.3			10.0	93			
STANDARD	ISB	0710A	10.0			10.0	100			
STANDARD	CCV	0712E	10.4			10.0	104			
SPIKE	MS	941745-001	62.0					10.0	50.0	104
DUPLICATE	MD	941785-004	21.7	20.9	4					
DUPLICATE	MD	941745-003	19.8	20.7	4					
DUPLICATE	MD	941758-003	16.0	17.4	8					

PARAMETER: Magnesium, Total (Mg)

DATE/TIME ANALYZED: 07/26/94 11:23

QC BATCH NUMBER: 302858

REPORTING LIMIT/DF: 0.1 UNITS: mg/L

METHOD REFERENCE: 6010 (2)

TECHNICIAN: WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	101			100	101			
STANDARD	CCV	0511K	97.1			100	97			
STANDARD	ISA	0609A	488			500	98			
STANDARD	CCV	0511K	98.0			100	98			
STANDARD	ISA	0609A	490			500	98			

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08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Magnesium, Total (Mg)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302858		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	467			500	93			
STANDARD	CCV	0511K	96.5			100	96			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	97.2			100	97			
STANDARD	CCV	0511K	95.6			100	96			
STANDARD	ISB	0710A	466			500	93			
STANDARD	CCV	0511K	95.2			100	95			
STANDARD	CCV	0511K	95.1			100	95			
STANDARD	ISA	0609A	496			500	99			
STANDARD	ISB	0710A	474			500	95			
STANDARD	CCV	0511K	99.3			100	99			
STANDARD	LCS	0426G	95.0			100	95			
SPIKE	PDS	941727-002	48.8					<0.1	50.0	98
SPIKE	MS	941745-001	93.7					43.4	50.0	101
SPIKE	MS	941785-013	50.8					<0.1	50.0	102
DUPLICATE	MD	941758-003	95.5	96.5	1					
DUPLICATE	MD	941785-004	14.2	14.3	1					
DUPLICATE	MD	941745-003	22.2	22.2	0					

PARAMETER: Sodium, Total (Na)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302861		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	LCS	0708H	0.9			1.0	90			
STANDARD	LCS	0708H	0.9			1.0	90			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	ICV	0314B	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			
STANDARD	CCV	0712E	1.0			1.0	100			

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QUALITY CONTROL REPORT 08/15/94

JOB NUMBER: 941727 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Sodium, Total (Na)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302861		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0712E	0.9			1.0	90			
STANDARD	CCV	0712E	1.0			1.0	100			
SPIKE	MS	941745-001	155					101	50.0	108
DUPLICATE	MD	941785-004	89.0	89.2	0					

PARAMETER: Sulfate (Unfilt.) DATE/TIME ANALYZED: 07/26/94 10:30 QC BATCH NUMBER: 302882

REPORTING LIMIT/DF: 10 UNITS: mg/L METHOD REFERENCE : 375.2 (1) TECHNICIAN: DME

BLANK	ICB	940726	<10							
BLANK	CCB	940726	<10							
BLANK	CCB	940726	<10							
STANDARD	ICV/LCS	G940430A	145			150	97			
STANDARD	CCV	S200	190			200	95			
STANDARD	CCV	S200	188			200	94			
SPIKE	MS	940673-332	50					<10	50	100
SPIKE	MS	941727-2	45					<10	50	90
DUPLICATE	MD	940673-332	<10	<10	NC					
DUPLICATE	MD	941727-2	<10	<10	NC					

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JOB NUMBER: 941727 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

BTEX SPIKED ANALYSIS-WATER DATE ANALYZED: 07/20/94 TIME ANALYZED: 00:00 METHOD: 602 (6) QC NUMBER:302319

B L A N K S

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QUALITY CONTROL REPORT
08/15/94

JOB NUMBER: 941727

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
BTEX SPIKED ANALYSIS-WATER
DATE ANALYZED: 07/20/94 **TIME ANALYZED:** 00:00 **METHOD:** 602 (6)

QC NUMBER: 302319

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	941727-2	1	20.9	0	20.0	104	0.5	ug/L
	MSD	941727-2	1	20.2	0	20.0	101	0.5	ug/L
Toluene	MS	941727-2	1	21.3	0	20.0	106	0.5	ug/L
	MSD	941727-2	1	20.6	0	20.0	103	0.5	ug/L
Ethylbenzene	MS	941727-2	1	21.7	0	20.0	108	0.5	ug/L
	MSD	941727-2	1	20.9	0	20.0	104	0.5	ug/L
Xylenes	MS	941727-2	1	64.5	0	60.0	108	0.5	ug/L
	MSD	941727-2	1	62.4	0	60.0	104	0.5	ug/L
4-Bromofluorobenzene (surrogat	MS	941727-2	1	20.1	0	20.0	101	0	Limit 85-115%
	MSD	941727-2	1	20.0	0	20.0	100	0	Limit 85-115%

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 08/03/94 TIME ANALYZED: 11:18 METHOD: 8270 (2)

QC NUMBER:304029

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB		0021 08/04	1	0	0	
	SBD		0123 08/04	1	0	0	
Date Extracted	SB		07/15/94	1	0	0	
	SBD		07/15/94	1	0	0	

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
BNA SPIKED ANALYSIS-WATER
DATE ANALYZED: 08/03/94 **TIME ANALYZED:** 11:18 **METHOD:** 8270 (2)

QC NUMBER: 304029

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	19	50	38	10	ug/L
	SBD	B940311A	1	23	50	46	10	ug/L
2-Chlorophenol	SB	B940331A	1	29	50	58	10	ug/L
	SBD	B940331A	1	32	50	64	10	ug/L
1,4-Dichlorobenzene	SB	B940331A	1	30	50	60	10	ug/L
	SBD	B940331A	1	36	50	72	10	ug/L
N-Nitrosodi-n-propylamine	SB	B940331A	1	21	50	42	10	ug/L
	SBD	B940331A	1	24	50	48	10	ug/L
1,2,4-Trichlorobenzene	SB	B940331A	1	30	50	60	10	ug/L
	SBD	B940331A	1	36	50	72	10	ug/L
4-Chloro-3-methylphenol	SB	B940331A	1	25	50	50	10	ug/L
	SBD	B940331A	1	20	50	40	10	ug/L
Acenaphthene	SB	B940331A	1	38	50	76	10	ug/L
	SBD	B940331A	1	41	50	82	10	ug/L
4-Nitrophenol	SB	B940331A	1	22	50	44	50	ug/L
	SBD	B940331A	1	20	50	40	50	ug/L
2,4-Dinitrotoluene	SB	B940331A	1	36	50	72	10	ug/L
	SBD	B940331A	1	29	50	58	10	ug/L
Pentachlorophenol	SB	B940331A	1	17	50	34	50	ug/L
	SBD	B940331A	1	16	50	32	50	ug/L
Pyrene	SB	B940331A	1	39	50	78	10	ug/L
	SBD	B940331A	1	40	50	80	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	43	100	43	0	35-114% Limit
	SBD	B940331A	1	51	100	51	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	85	100	85	0	43-116% Limit
	SBD	B940331A	1	97	100	97	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	96	100	96	0	33-141% Limit
	SBD	B940331A	1	104	100	104	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	41	100	41	0	10-94% Limit
	SBD	B940331A	1	52	100	52	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	38	100	38	0	21-100% Limit
	SBD	B940331A	1	30	100	30	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	49	100	49	0	10-123% Limit
	SBD	B940331A	1	33	100	33	0	10-123% Limit

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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>	<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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Core Laboratories

Correct

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 941725
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 08/17/94

Linda L. Benkers
Signature

8-17-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



Environmental Science
and Engineering
A BOM International Company

Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
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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 8357

Chain of Custody

Date July 12, 1994 Page 2 of 3

Lab Name CORE LABORATORIES		Analysis Request																											
Address 10703 East Bethany Drive																													
Aurora, CO 80014-2696																													
Telephone 303/751-1780																													
Samplers (SIGNATURES)																													
Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	GC/MS 624/8240	GC/MS 624/8240	Base/New Aromatic Compounds 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/OTEX Modified 8015	TCLP-Vol., Semi-Vol. Herbicides, Pesticides	TCLP-Metals	RCRA Metals (8)	Priority Pollutant Metals (13)	CAM Metals (18) TLLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	ANIONS & CATIONS	Number of Containers		
9407121025	H2O	MW-16																										2	3
9407121035	H2O	MW-16S																										2	3
9407121105	H2O	MW-15																										2	2
9407121135	H2O	MW-10																										1	2
9407121210	H2O	MW-12																										1	4
9407121300	H2O	MW-1																										1	4
9407121340	H2O	MW-3S																										1	4
9407121410	H2O	MW-3d																										1	5
9407121435	H2O	MW-6S																										1	4
9407121510	H2O	MW-6d																										1	4

Project Information		Sample Receipt	
Project RENE	Total No. of Containers 35	Relinquished By DAVID NEE	Relinquished By 1700
Project Director TRENT	Chain of Custody Seals YFS	(Signature) DAVID NEE	(Time) 7/12/94
Charge Code No. 3034.006	Rec'd Good Condition/Cold YFS	(Printed Name) DAVID NEE	(Date) 7/12/94
Shipping ID. No. 0214090973	Conforms to Record YFS	(Company) GCL	
Via: Fed x	Lab No. 941725	Received By	Received By (Laboratory)
Special Instructions/Comments:		(Signature)	(Signature)
		(Printed Name)	(Printed Name)
		(Company)	(Company)

Distribution: White, Canary-Laboratory • Pink, GCL

Core Laboratories

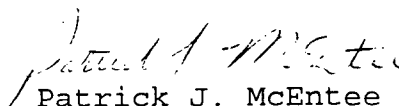
Sample Delivery Group Narrative

Date: August 17, 1994

Customer: Geoscience Consultants, LTD.
Project: Rexene COC #8357
Core Laboratories Project Number: 941725

On July 13, 1994, Core Laboratories received 10 samples for various analysis. The following information is pertinent to the interpretation of this data package.

Due to the oily nature of sample 9407121135 (Core Laboratories identification 941725-0004) nitrate-nitrogen was not analyzed.


Patrick J. McEntee
Laboratory Supervisor


Linda L. Benkers
QA/QC Coordinator

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 17, 1994

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC #8357
Core Laboratories Project Number: 941725

On 7-13-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Organic Analysis:

During initial analysis for semivolatile organics on sample ID 9407121410, the three acid and nitrobenzene surrogate compounds had low percent recoveries. Reanalysis of the extracts produced similar results for two of the acid surrogates. Surrogates phenol and nitrobenzene had acceptable recoveries from the reanalysis.

During analysis for BTEX organics on these samples, an opening calibration check verification (CCV) was not performed. A closing CCV was performed with acceptable results after the samples were analyzed.


Linda L. Benkers
QA/QC Coordinator
Douglas Georgic
Laboratory Supervisor

Core Laboratories

LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8357
DATE SAMPLED: 07/12/94
TIME SAMPLED: 10:25
WORK DESCRIPTION: 9407121025

LABORATORY I.D.: 941725-0001
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Bicarbonate (Unfilt.)	1100	5	mg/L	403 (3)	07/25/94	KDS
Chloride (Unfilt.)	1910	5	mg/L	325.2 (1)	07/25/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
Sulfate (Unfilt.)	1510	100	mg/L	375.2 (1)	07/26/94	DME
Calcium, Total (Ca)	237	0.1	mg/L	6010 (2)	07/26/94	WGL
Magnesium, Total (Mg)	96.7	0.1	mg/L	6010 (2)	07/26/94	WGL
Potassium, Total (K)	35	2	mg/L	6010 (2)	07/26/94	WGL
Sodium, Total (Na)	1500	10	mg/L	6010 (2)	07/26/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			
Nitrobenzene-d5 (Surrogate)	60	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	106	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Time Analyzed	1556	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
4-Chloro-3-methylphenol	ND	10	ug/L			

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Core Laboratories
LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC# 8357
DATE SAMPLED.....: 07/12/94
TIME SAMPLED.....: 10:25
WORK DESCRIPTION...: 9407121025

LABORATORY I.D....: 941725-0001
DATE RECEIVED.....: 07/13/94
TIME RECEIVED.....: 10:30
REMARKS.....: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH:
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)	60	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	106	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	63	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		
Time Analyzed	1556	0				
Date Extracted	07/15/94	0				

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357
DATE SAMPLED: 07/12/94
TIME SAMPLED: 10:35
WORK DESCRIPTION: 9407121035

LABORATORY I.D.: 941725-0002
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-16S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1090	5	mg/L	403 (3)	07/25/94	KDS
Chloride (Unfilt.)	1870	5	mg/L	325.2 (1)	07/25/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
Sulfate (Unfilt.)	1780	100	mg/L	375.2 (1)	07/26/94	DME
Calcium, Total (Ca)	243	0.1	mg/L	6010 (2)	07/26/94	WGL
Magnesium, Total (Mg)	99.5	0.1	mg/L	6010 (2)	07/26/94	WGL
Potassium, Total (K)	30	2	mg/L	6010 (2)	07/26/94	WGL
Sodium, Total (Na)	1490	10	mg/L	6010 (2)	07/26/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			
Nitrobenzene-d5 (Surrogate)	58	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	105	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	94	0	% Recovery	33-141% Limit		
Time Analyzed	1700	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
4-Chloro-3-methylphenol	ND	10	ug/L			

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357

DATE SAMPLED: 07/12/94

TIME SAMPLED: 10:35

WORK DESCRIPTION: 9407121035

LABORATORY I.D.: 941725-0002

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: MW-16S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
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)	105	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	94	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	60	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	51	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	85	0	% Recovery	10-123% Limit		
Time Analyzed	1700	0				
Date Extracted	07/15/94	0				

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8357
 DATE SAMPLED: 07/12/94
 TIME SAMPLED: 11:05
 WORK DESCRIPTION: 9407121105

LABORATORY I.D.: 941725-0003
 DATE RECEIVED: 07/13/94
 TIME RECEIVED: 10:30
 REMARKS: MW-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	723	5	mg/L	403 (3)	07/25/94	KDS
Chloride (Unfilt.)	436	5	mg/L	325.2 (1)	07/25/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
Sulfate (Unfilt.)	294	20	mg/L	375.2 (1)	07/26/94	DME
Calcium, Total (Ca)	57.7	0.1	mg/L	6010 (2)	07/26/94	WGL
Magnesium, Total (Mg)	16.4	0.1	mg/L	6010 (2)	07/26/94	WGL
Potassium, Total (K)	23	1	mg/L	6010 (2)	07/26/94	WGL
Sodium, Total (Na)	458	5	mg/L	6010 (2)	07/26/94	WGL

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357
DATE SAMPLED: 07/12/94
TIME SAMPLED: 11:35
WORK DESCRIPTION: 9407121135

LABORATORY I.D.: 941725-0004
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-10

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH:
610 - PAH'S BY 8270		*710		8270 (2)	08/05/94	JMC
Acenaphthene	ND	7100	ug/L			
Acenaphthylene	ND	7100	ug/L			
Anthracene	ND	7100	ug/L			
Benzo(a)anthracene	ND	7100	ug/L			
Benzo(b)fluoranthene	ND	7100	ug/L			
Benzo(k)fluoranthene	ND	7100	ug/L			
Benzo(ghi)perylene	ND	7100	ug/L			
Benzo(a)pyrene	ND	7100	ug/L			
Chrysene	ND	7100	ug/L			
Dibenzo(a,h)anthracene	ND	7100	ug/L			
Fluoranthene	ND	7100	ug/L			
Fluorene	ND	7100	ug/L			
Indeno(1,2,3-cd)pyrene	ND	7100	ug/L			
1-Methylnaphthalene	25000	7100	ug/L			
2-Methylnaphthalene	7600	7100	ug/L			
Naphthalene	ND	7100	ug/L			
Phenanthrene	12000	7100	ug/L			
Pyrene	ND	7100	ug/L			
Nitrobenzene-d5 (Surrogate)	90	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	104	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	92	0	% Recovery	33-141% Limit		
Time Analyzed	1420	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*710		8270 (2)	08/05/94	JMC
4-Chloro-3-methylphenol	ND	7100	ug/L			
2-Chlorophenol	ND	7100	ug/L			
2,4-Dichlorophenol	ND	7100	ug/L			
2,4-Dimethylphenol	11000	7100	ug/L			
2,4-Dinitrophenol	ND	35500	ug/L			
2-Methyl-4,6-dinitrophenol	ND	35500	ug/L			
2-Nitrophenol	ND	7100	ug/L			
4-Nitrophenol	ND	35500	ug/L			
Pentachlorophenol	ND	35500	ug/L			
Phenol	ND	7100	ug/L			
2,4,6-Trichlorophenol	ND	7100	ug/L			
Nitrobenzene-d5 (Surrogate)	90	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	104	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	92	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	63	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	52	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	107	0	% Recovery	10-123% Limit		

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08/17/94

ATTN:

LABORATORY I.D....: 941725-0004
DATE RECEIVED....: 07/13/94
TIME RECEIVED....: 10:30
REMARKS.....: MW-10

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Core Laboratories
LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC# 8357
DATE SAMPLED.....: 07/12/94
TIME SAMPLED.....: 12:10
WORK DESCRIPTION...: 9407121210

LABORATORY I.D....: 941725-0005
DATE RECEIVED.....: 07/13/94
TIME RECEIVED.....: 10:30
REMARKS.....: MW-12

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/18/94	JHT
Benzene	1.9	0.5	ug/L	85-115% Limit		
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	106	0	% Recovery			
Time Analyzed	1834	0				

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Core Laboratories

LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8357
 DATE SAMPLED: 07/12/94
 TIME SAMPLED: 13:00
 WORK DESCRIPTION: 9407121300

LABORATORY I.D.: 941725-0006
 DATE RECEIVED: 07/13/94
 TIME RECEIVED: 10:30
 REMARKS: MW-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/18/94	JHT
Benzene	1.3	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	85-115% Limit		
Time Analyzed	1911	0				

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Core Laboratories
LABORATORY TESTS RESULTS

08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357

LABORATORY I.D.: 941725-0007

DATE SAMPLED: 07/12/94

DATE RECEIVED: 07/13/94

TIME SAMPLED: 13:40

TIME RECEIVED: 10:30

WORK DESCRIPTION: 9407121340

REMARKS: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/18/94	JHT
Benzene	0.8	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	85-115% Limit		
Time Analyzed	2101	0				

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(303) 751-1780

Core Laboratories
LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357
DATE SAMPLED: 07/12/94
TIME SAMPLED: 14:10
WORK DESCRIPTION: 9407121410

LABORATORY I.D.: 941725-0008
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH:
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/18/94	JHT
Benzene	0.6	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	85-115% Limit		
Time Analyzed	2137	0				
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			
Nitrobenzene-d5 (Surrogate)	27 *	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	66	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	67	0	% Recovery	33-141% Limit		
Time Analyzed	1907	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
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			

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357

DATE SAMPLED: 07/12/94

TIME SAMPLED: 14:10

WORK DESCRIPTION: 9407121410

LABORATORY I.D.: 941725-0008

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: MW-3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
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)	27 *	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	66	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	67	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	6 *	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	4 *	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	8 *	0	% Recovery	10-123% Limit		
Time Analyzed	1907	0				
Date Extracted	07/15/94	0				
Semi-Volatile Organic - Surrogates		*1		8270(2)/625(6)	08/05/94	JMC
Nitrobenzene-d5 (Surrogate)	37	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	57	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	67	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	16	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	5 *	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	8 *	0	% Recovery	10-123% Limit		
Date Extracted	07/15/94	0				
Time Analyzed	1316	0				

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LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8357

DATE SAMPLED.....: 07/12/94

TIME SAMPLED.....: 14:35

WORK DESCRIPTION....: 9407121435

LABORATORY I.D....: 941725-0009

DATE RECEIVED.....: 07/13/94

TIME RECEIVED.....: 10:30

REMARKS.....: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	07/20/94	JHT
Benzene	110	10	ug/L			
Toluene	ND	10	ug/L			
Ethyl benzene	30	10	ug/L			
Xylenes	88	10	ug/L			
4-Bromofluorobenzene (surrogate)	103	0	% Recovery	85-115% Limit		
Time Analyzed	0102	0				

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LABORATORY TESTS RESULTS 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8357
 DATE SAMPLED: 07/12/94
 TIME SAMPLED: 15:10
 WORK DESCRIPTION: 9407121510

LABORATORY I.D.: 941725-0010
 DATE RECEIVED: 07/13/94
 TIME RECEIVED: 10:30
 REMARKS: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH:
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	104	0	% Recovery	85-115% Limit		
Time Analyzed	1751	0				

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LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

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

LABORATORY I.D.: 941725-0011
DATE RECEIVED: / /
TIME RECEIVED: :
REMARKS:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	1156	0				
610 - PAH'S BY 8270		*1		8270 (2)	08/03/94	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			
Nitrobenzene-d5 (Surrogate)	58	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	91	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	107	0	% Recovery	33-141% Limit		
Time Analyzed	1245	0				
Date Extracted	07/15/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	08/03/94	JMC
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			

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LABORATORY TESTS RESULTS

08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

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

LABORATORY I.D....: 941725-0011
 DATE RECEIVED..... / /
 TIME RECEIVED..... :
 REMARKS.....

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
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)	91	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	107	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	51	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	53	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	33	0	% Recovery	10-123% Limit		
Time Analyzed	1245	0				
Date Extracted	07/15/94	0				

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LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....:
LABORATORY I.D....: 941725-0012

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	TECH
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/18/94	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)	100	0	% Recovery	85-115% Limit		
Time Analyzed	1251	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

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

LABORATORY I.D....: 941725-0013
DATE RECEIVED....: / /
TIME RECEIVED....: :
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	100	0	% Recovery	85-115% Limit		
Time Analyzed	2240	0				

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Core Laboratories
QUALITY CONTROL REPORT
08/17/94

JOB NUMBER: 941725 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Nitrogen, Nitrate (Unfilt.) **DATE/TIME ANALYZED:** 07/14/94 05:55 **QC BATCH NUMBER:** 301940
REPORTING LIMIT/DF: 0.1 **UNITS:** mg/L (as N) **METHOD REFERENCE:** :353.2 (1) **TECHNICIAN:** DME

BLANK	ICB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
STANDARD	ICV/LCS	G931013B	1.0			1.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941724-10	1.0					<0.1	1.0	100
SPIKE	MS	941725-10	1.0					<0.1	1.0	100
SPIKE	MS	941738-1	1.5					0.5	1.0	100
DUPLICATE	MD	941724-10	<0.1	<0.1	NC					
DUPLICATE	MD	941725-10	<0.1	<0.1	NC					
DUPLICATE	MD	941738-1	0.5	0.5	0.0					

PARAMETER: Chloride (Unfilt.) **DATE/TIME ANALYZED:** 07/25/94 09:30 **QC BATCH NUMBER:** 302670
REPORTING LIMIT/DF: 0.5 **UNITS:** mg/L **METHOD REFERENCE:** :325.2 (1) **TECHNICIAN:** DME

BLANK	ICB	940725	<0.5							
BLANK	CCB	940725	<0.5							
BLANK	CCB	940725	<0.5							
BLANK	CCB	940725	<0.5							
STANDARD	ICV/LCS	G931229C	50.3			50.0	101			
STANDARD	CCV	S160	158			160	99			
STANDARD	CCV	S160	160			160	100			
STANDARD	CCV	S160	161			160	101			
SPIKE	MS	941727-2	51.2					<0.5	50.0	102
SPIKE	MS	940673-332	99.2					1.3	100	98
SPIKE	MS	940673-324	95.1					<0.5	100	95
DUPLICATE	MD	940673-324	<0.5	<0.5	NC					
DUPLICATE	MD	940673-332	1.3	1.4	0.1					
DUPLICATE	MD	941727-2	<0.5	<0.5	NC					

PARAMETER: Bicarbonate (Unfilt.) **DATE/TIME ANALYZED:** 07/25/94 21:30 **QC BATCH NUMBER:** 302720
REPORTING LIMIT/DF: 5 **UNITS:** mg/L **METHOD REFERENCE:** :2320 B (3) **TECHNICIAN:** KDS

BLANK	MB	940725	<5							
DUPLICATE	MD	941725-3	723	710	2					

PARAMETER: Calcium, Total (Ca) **DATE/TIME ANALYZED:** 07/26/94 11:23 **QC BATCH NUMBER:** 302852
REPORTING LIMIT/DF: 0.1 **UNITS:** mg/L **METHOD REFERENCE:** :6010 (2) **TECHNICIAN:** WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							

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QUALITY CONTROL REPORT 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Calcium, Total (Ca)

DATE/TIME ANALYZED: 07/26/94 11:23

QC BATCH NUMBER: 302857

REPORTING LIMIT/DF: 0.1 UNITS: mg/L

METHOD REFERENCE: :6010 (2)

TECHNICIAN: WGL

BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	103			100	103			
STANDARD	CCV	0511K	95.9			100	96			
STANDARD	ISA	0609A	464			500	93			
STANDARD	CCV	0511K	98.7			100	99			
STANDARD	ISA	0609A	434			500	87			
STANDARD	ISB	0710A	423			500	85			
STANDARD	CCV	0511K	95.8			100	96			
STANDARD	CCV	0511K	92.6			100	93			
STANDARD	CCV	0511K	99.7			100	100			
STANDARD	CCV	0511K	94.7			100	95			
STANDARD	ISB	0710A	431			500	86			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	94.3			100	94			
STANDARD	ISA	0609A	438			500	88			
STANDARD	ISB	0710A	421			500	84			
STANDARD	CCV	0511K	96.7			100	97			
STANDARD	LCS	0426G	93.6			100	94			
SPIKE	PDS	941727-002	47.8					0.3	50.0	95
SPIKE	MS	941745-001	258					215	50.0	86
SPIKE	MS	941785-013	49.4					<0.1	50.0	99
DUPLICATE	MD	941785-004	61.3	62.4	2					
DUPLICATE	MD	941745-003	89.0	89.1	0					

PARAMETER: Potassium, Total (K)

DATE/TIME ANALYZED: 07/26/94 15:46

QC BATCH NUMBER: 302857

REPORTING LIMIT/DF: 0.1 UNITS: mg/L

METHOD REFERENCE: :6010 (2)

TECHNICIAN: WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							

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Core Laboratories
QUALITY CONTROL REPORT
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Potassium, Total (K)

DATE/TIME ANALYZED: 07/26/94 15:46

QC BATCH NUMBER: 30285

REPORTING LIMIT/DF: 0.1 UNITS:mg/L

METHOD REFERENCE : 6010 (2)

TECHNICIAN: WG

BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0712E	10.9			10.0	109			
STANDARD	LCS	0708H	10.4			10.0	104			
STANDARD	CCV	0712E	10.5			10.0	105			
STANDARD	CCV	0712E	9.6			10.0	96			
STANDARD	ISB	0710A	9.8			10.0	98			
STANDARD	CCV	0712E	10.1			10.0	101			
STANDARD	ISB	0710A	8.3			10.0	83			
STANDARD	CCV	0712E	10.7			10.0	107			
STANDARD	CCV	0712E	9.4			10.0	94			
STANDARD	CCV	0712E	11.0			10.0	110			
STANDARD	CCV	0712E	10.2			10.0	102			
STANDARD	ICV	0314B	9.6			10.0	96			
STANDARD	CCV	0712E	10.5			10.0	105			
STANDARD	LCS	0708H	9.3			10.0	93			
STANDARD	ISB	0710A	10.0			10.0	100			
STANDARD	CCV	0712E	10.4			10.0	104			
SPIKE	MS	941745-001	62.0					10.0	50.0	104
DUPLICATE	MD	941785-004	21.7	20.9	4					
DUPLICATE	MD	941745-003	19.8	20.7	4					
DUPLICATE	MD	941758-003	16.0	17.4	8					

PARAMETER: Magnesium, Total (Mg)

DATE/TIME ANALYZED: 07/26/94 11:23

QC BATCH NUMBER: 30285

REPORTING LIMIT/DF: 0.1 UNITS:mg/L

METHOD REFERENCE : 6010 (2)

TECHNICIAN: WG

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	101			100	101			
STANDARD	CCV	0511K	97.1			100	97			
STANDARD	ISA	0609A	488			500	98			
STANDARD	CCV	0511K	98.0			100	98			
STANDARD	ISA	0609A	490			500	98			

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Core Laboratories

QUALITY CONTROL REPORT 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Magnesium, Total (Mg)				DATE/TIME ANALYZED:07/26/94 11:23				QC BATCH NUMBER:30285		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WG		
STANDARD	ISB	0710A	467			500	93			
STANDARD	CCV	0511K	96.5			100	96			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	97.2			100	97			
STANDARD	CCV	0511K	95.6			100	96			
STANDARD	ISB	0710A	466			500	93			
STANDARD	CCV	0511K	95.2			100	95			
STANDARD	CCV	0511K	95.1			100	95			
STANDARD	ISA	0609A	496			500	99			
STANDARD	ISB	0710A	474			500	95			
STANDARD	CCV	0511K	99.3			100	99			
STANDARD	LCS	0426G	95.0			100	95			
SPIKE	PDS	941727-002	48.8					<0.1	50.0	98
SPIKE	MS	941745-001	93.7					43.4	50.0	101
SPIKE	MS	941785-013	50.8					<0.1	50.0	102
DUPLICATE	MD	941758-003	95.5	96.5	1					
DUPLICATE	MD	941785-004	14.2	14.3	1					
DUPLICATE	MD	941745-003	22.2	22.2	0					

PARAMETER:Sodium, Total (Na)

DATE/TIME ANALYZED:07/26/94 15:46

QC BATCH NUMBER:30286

REPORTING LIMIT/DF: 1.0 UNITS:mg/L

METHOD REFERENCE :6010 (2)

TECHNICIAN:WG

BLANK	ICB	0714C	<1.0							
BLANK	MB	0722	<1.0							
BLANK	MB	0722	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	53.1			50.0	106			
STANDARD	CCV	0511K	53.3			50.0	107			
STANDARD	ISA	0609A	556			500	111			
STANDARD	ISB	0710A	524			500	105			
STANDARD	CCV	0511K	46.8			50.0	94			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	45.4			50.0	91			
STANDARD	ICV	0426G	45.3			50.0	91			
STANDARD	CCV	0511K	47.5			50.0	95			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	46.9			50.0	94			

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QUALITY CONTROL REPORT 08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Sodium, Total (Na)				DATE/TIME ANALYZED:07/26/94 15:46				QC BATCH NUMBER:30286		
REPORTING LIMIT/DF: 1.0 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WG		
STANDARD	CCV	0511K	52.0			50.0	104			
STANDARD	ISA	0609A	549			500	110			
STANDARD	ISA	0609A	590			500	118			
STANDARD	ISB	0710A	565			500	113			
STANDARD	CCV	0511K	50.9			50.0	102			
STANDARD	ISB	0710A	520			500	104			
STANDARD	LCS	0426G	41.2			50.0	82			
SPIKE	MS	941745-001	155					101	50.0	108
DUPLICATE	MD	941785-004	89.0	89.2	0					
DUPLICATE	MD	941745-003	60.0	59.7	1					
DUPLICATE	MD	941758-003	102	104	2					

PARAMETER:Sulfate (Unfilt.)

DATE/TIME ANALYZED:07/26/94 10:30

QC BATCH NUMBER:30288

REPORTING LIMIT/DF: 10 UNITS:mg/L

METHOD REFERENCE :375.2 (1)

TECHNICIAN:DM

BLANK	ICB	940726	<10							
BLANK	CCB	940726	<10							
BLANK	CCB	940726	<10							
STANDARD	ICV/LCS	G940430A	145			150	97			
STANDARD	CCV	S200	190			200	95			
STANDARD	CCV	S200	188			200	94			
SPIKE	MS	940673-332	50					<10	50	100
SPIKE	MS	941727-2	45					<10	50	90
DUPLICATE	MD	940673-332	<10	<10	NC					
DUPLICATE	MD	941727-2	<10	<10	NC					

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Core Laboratories
QUALITY CONTROL REPORT
08/17/94

JOB NUMBER: 941725

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 08/03/94 TIME ANALYZED: 11:16 METHOD: 8270 (2)

QC NUMBER: 304779

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	19	50	38	10	ug/L
	SBD	B940331A	1	23	50	46	10	ug/L
2-Chlorophenol	SB	B940331A	1	29	50	58	10	ug/L
	SBD	B940331A	1	32	50	64	10	ug/L
1,4-Dichlorobenzene	SB	B940331A	1	30	50	60	10	ug/L
	SBD	B940331A	1	36	50	72	10	ug/L
N-Nitrosodi-n-propylamine	SB	B940331A	1	21	50	42	10	ug/L
	SBD	B940331A	1	24	50	48	10	ug/L
1,2,4-Trichlorobenzene	SB	B940331A	1	30	50	60	10	ug/L
	SBD	B940331A	1	36	50	72	10	ug/L
4-Chloro-3-methylphenol	SB	B940331A	1	25	50	50	10	ug/L
	SBD	B940331A	1	20	50	40	10	ug/L
Acenaphthene	SB	B940331A	1	38	50	76	10	ug/L
	SBD	B940331A	1	41	50	82	10	ug/L
4-Nitrophenol	SB	B940331A	1	22	50	44	50	ug/L
	SBD	B940331A	1	20	50	40	50	ug/L
2,4-Dinitrotoluene	SB	B940331A	1	36	50	72	10	ug/L
	SBD	B940331A	1	29	50	58	10	ug/L
Pentachlorophenol	SB	B940331A	1	17	50	34	50	ug/L
	SBD	B940331A	1	16	50	32	50	ug/L
Pyrene	SB	B940331A	1	39	50	78	10	ug/L
	SBD	B940331A	1	40	50	80	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	43	100	43	0	35-114% Limit
	SBD	B940331A	1	51	100	51	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	85	100	85	0	43-116% Limit
	SBD	B940331A	1	97	100	97	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	96	100	96	0	33-141% Limit
	SBD	B940331A	1	104	100	104	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	41	100	41	0	10-94% Limit
	SBD	B940331A	1	52	100	52	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	38	100	38	0	21-100% Limit
	SBD	B940331A	1	30	100	30	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	49	100	49	0	10-123% Limit
	SBD	B940331A	1	33	100	33	0	10-123% Limit

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RECEIVED AUG 16 1994



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CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 941627
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 08/12/94


Signature

8-12-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



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Las Cruces, NM 88004
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FAX: (505) 524-5315

No 8352

Chain of Custody

Date 6/27/94 Page 1 of 1

Lab Name CORE LABORATORIES		Analysis Request																											
Sample Number	Matrix	Location	Halogenated Volatiles 801/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polyuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/New/Add Compounds GC/MS 628/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1 TPH/STEX Modified 8015	TCLP-Vol., Semi-Vol. Herbicides, Pesticides	TCLP-Metals	RCRA Metals (8)	Priority Pollutant Metals (13)	CAM Metals (18) TML/CSTLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	WGC METALS & T	Total Hg	Hg3 Cd Pb3	Ca, Mg, K, Na	Total Solids	Number of Containers
9406272010	H2O	MW-8																											
9406272100	H2O	MW-11																											
9406272215	H2O	MW-7																											
9406280700	H2O	MW-10																											
9406280930	H2O	MW-2																											
9406281105	H2O	MW-17																											
9406281200	H2O	MW-14																											
9406281250	H2O	MW-16																											
9406281445	H2O	MW-15																											

Project Information		Sample Receipt		Relinquished By		Relinquished By		Relinquished By	
Project	REXENE	Total No. of Containers		Signature	1415	Signature		Signature	
Project Director	TRENT	Chain of Custody Seals		(Printed Name)	DAVID NEE	(Printed Name)		(Printed Name)	
Charge Code No.	3034.001	Rec'd Good Condition/Cold		(Date)	6/24/94	(Date)		(Date)	
Shipping ID. No.		Conforms to Record		(Company)	GLU	(Company)		(Company)	
Lab No.	0214090925	Lab No.		Received By	9:45	Received By		Received By	
Via:	Fed X	Lab No.	941627	Signature	J. Feigitsch	Signature		Signature	
Special Instructions/Comments:	*WALL METALS AL MN FE AS BA CD CR CO Cu Pb Mo Ni Se Ag Zn								

Distribution: White, Canary-Laboratory • Pink, GCL

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 10, 1994

Customer: Geoscience Consultants, Ltd.

Project: Rexene COC # 8352

Core Laboratories Project Number: 941627

On 6-30-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

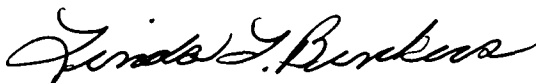
EPA Method 601 & 602 GC Analysis :

Methylene chloride was found in the method blank that was analyzed with sample 941627-6 (9406281105), sample 941627-7 (9406281200), sample 941627-8 (9406281250), sample 941627-9 (9406281445), and sample 941627-11 (9406281250 Duplicate). Results are flagged with a "B" to indicate a hit on the method blank.

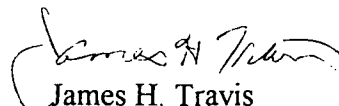
Initial and continuing calibrations met EPA method 601 & 602 acceptance criteria with the following exceptions:

Bromomethane and chloroethane had a %RSD of 35, however these compounds were not found in any samples. Methylene chloride had a %RSD of 36.

All sample hits were confirmed by EPA method 624. Samples 9406281250 and 9406281250 Duplicate showed positive results for benzene, toluene, and xylenes by EPA method 601 & 602 but the levels were too low to confirm by EPA method 624. These positive results have been reported.



Linda L. Benkers
QA/QC Coordinator



James H. Travis
Laboratory Supervisor

Core Laboratories

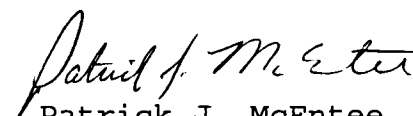
Sample Delivery Group Narrative

Date: August 1, 1994

Customer: Geoscience Consultants, LTD.
Project: Rexene COC # 8352
Core Laboratories Project Number: 941627

On June 30, 1994, Core Laboratories received 9 samples for various analysis. The following information is pertinent to the interpretation of this data package.

Please note that all of the samples were received past the EPA recommended holding time of 48 hours for the analysis of nitrate-nitrogen. Analysis was performed on the day of sample receipt.


Patrick J. McEntee
Laboratory Supervisor


Linda L. Benkers
QA/QC Coordinator

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 8, 1994

Customer: Geoscience Consultants, Ltd.
Project: Rexene Project COC #8352
Core Laboratories Project Number: 941627

On 6-30-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

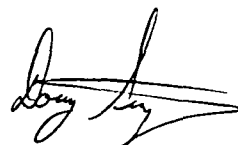
Organic Analysis:

During the original analysis of PAH semivolatiles on sample ID 9406272010, 4-terphenyl surrogate had a low percent recovery. Reanalysis of the sample confirmed the original result. The original analysis had low internal standard recoveries and is only being used to confirm the surrogate recoveries. The other five surrogates used all had acceptable percent recoveries.

The spike blank analyzed with this sample had phenol recovered at 94% and pentachlorophenol recovered at 115%. The EPA recommended percent recovery limits for phenol is 12% to 89% and for pentachlorophenol it is 9% to 103%. The relative percent difference for spike 1,4-dichlorobenzene was 29% with the EPA recommended limit at 28% RPD between the spike blank and spike blank duplicate.



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 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
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8352

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 20:10

WORK DESCRIPTION....: 9406272010

LABORATORY I.D....: 941627-0001

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	2670	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	1380	5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.5	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	60	10	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.12	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	0.08	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.70	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	89.9	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	5.79	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	36.1	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	0.23	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	20.0	0.1	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	1150	20	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories

LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0001

DATE SAMPLED: 06/27/94

DATE RECEIVED: 06/30/94

TIME SAMPLED: 20:10

TIME RECEIVED: 09:45

WORK DESCRIPTION: 9406272010

REMARKS: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.02	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*5		8270 (2)	07/26/94	DMJ
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	ND	50	ug/L			
2-Methylnaphthalene	ND	50	ug/L			
Naphthalene	93	50	ug/L			
Phenanthrene	ND	50	ug/L			
Pyrene	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	45	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	64	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	28 *	0	% Recovery	33-141% Limit		
Time Analyzed	1819	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*5		8270 (2)	07/26/94	DMJ
4-Chloro-3-methylphenol	ND	50	ug/L			
2-Chlorophenol	ND	50	ug/L			
2,4-Dichlorophenol	ND	50	ug/L			
2,4-Dimethylphenol	56	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	110	50	ug/L			
2,4,6-Trichlorophenol	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	45	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	64	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	28 *	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	62	0	% Recovery	10-94% Limit		

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Core Laboratories
LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/27/94

TIME SAMPLED: 20:10

WORK DESCRIPTION: 9406272010

LABORATORY I.D.: 941627-0001

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	44	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	77	0	% Recovery	10-123% Limit		
Time Analyzed	1819	0				
Date Extracted	07/03/94	0				
Semi-Volatile Organic - Surrogates		*1		8270(2)/625(6)	07/15/94	DMJ
Nitrobenzene-d5 (Surrogate)	61	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	45	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	25 *	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	60	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	78	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	41	0	% Recovery	10-123% Limit		
Date Extracted	07/03/94	0				
Time Analyzed	2025	0				

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/27/94

TIME SAMPLED: 21:00

WORK DESCRIPTION: 9406272100

LABORATORY I.D.: 941627-0002

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1830	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	927	5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	1.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	18	10	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.10	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	0.07	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	1.10	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	0.009	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	116	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	4.68	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	69.5	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	0.67	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	29	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	820	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/27/94

TIME SAMPLED: 21:00

WORK DESCRIPTION: 9406272100

LABORATORY I.D.: 941627-0002

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

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)	07/20/94	WGL
510 - PAH'S BY 8270		*5		8270 (2)	07/26/94	DMJ
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	ND	50	ug/L			
2-Methylnaphthalene	ND	50	ug/L			
Naphthalene	ND	50	ug/L			
Phenanthrene	ND	50	ug/L			
Pyrene	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	68	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	111	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	76	0	% Recovery	33-141% Limit		
Time Analyzed	1923	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*5		8270 (2)	07/26/94	DMJ
4-Chloro-3-methylphenol	ND	50	ug/L			
2-Chlorophenol	ND	50	ug/L			
2,4-Dichlorophenol	ND	50	ug/L			
2,4-Dimethylphenol	ND	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)	68	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	111	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	76	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	79	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/27/94
TIME SAMPLED: 21:00
WORK DESCRIPTION: 9406272100

LABORATORY I.D.: 941627-0002
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	59	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	112	0	% Recovery	10-123% Limit		
Time Analyzed	1923	0				
Date Extracted	07/03/94	0				

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LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8352
DATE SAMPLED.....: 06/27/94
TIME SAMPLED.....: 22:15
WORK DESCRIPTION....: 9406272215

LABORATORY I.D....: 941627-0003
DATE RECEIVED.....: 06/30/94
TIME RECEIVED.....: 09:45
REMARKS.....: MW-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1330	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	1210	5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	575	100	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.07	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.35	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	248	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.92	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	66.8	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	0.80	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	37	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	710	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/27/94
TIME SAMPLED: 22:15
WORK DESCRIPTION: 9406272215

LABORATORY I.D.: 941627-0003
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*5		8270 (2)	07/25/94	DMJ
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	ND	50	ug/L			
2-Methylnaphthalene	ND	50	ug/L			
Naphthalene	ND	50	ug/L			
Phenanthrene	ND	50	ug/L			
Pyrene	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	89	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	108	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	50	0	% Recovery	33-141% Limit		
Time Analyzed	1407	0				
Date Extracted	07/03/94	0				
504 - PHENOLS BY 8270		*5		8270 (2)	07/25/94	DMJ
4-Chloro-3-methylphenol	ND	50	ug/L			
2-Chlorophenol	ND	50	ug/L			
2,4-Dichlorophenol	ND	50	ug/L			
2,4-Dimethylphenol	ND	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)	89	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	108	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	50	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	34	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/27/94

TIME SAMPLED: 22:15

WORK DESCRIPTION: 9406272215

LABORATORY I.D.: 941627-0003

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	31	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	81	0	% Recovery	10-123% Limit		
Time Analyzed	1407	0				
Date Extracted	07/03/94	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/28/94
TIME SAMPLED: 07:00
WORK DESCRIPTION: 9406280700

LABORATORY I.D.: 941627-0004
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-10

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1760	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	1010	5	mg/L	325.2 (1)	07/20/94	DME
Sulfate (Unfilt.)	20	10	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.07	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	0.13	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	1.00	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	100	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.33	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	50.4	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	1.81	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	26.4	0.1	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	750	20	mg/L	6010 (2)	07/19/94	WGL
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL

(Note: PAH & Phenol Broken)

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Core Laboratories
LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/28/94
TIME SAMPLED: 09:30
WORK DESCRIPTION: 9406280930

LABORATORY I.D.: 941627-0005
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	769	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	6770	25	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	0.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	2790	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	1080	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.83	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	500	20	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	7.47	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	125	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	3040	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/28/94

TIME SAMPLED: 09:30

WORK DESCRIPTION: 9406280930

LABORATORY I.D.: 941627-0005

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/26/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	74	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	87	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	87	0	% Recovery	33-141% Limit		
Time Analyzed	1612	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/26/94	DMJ
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)	87	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	87	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	65	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0006

DATE SAMPLED.: 06/28/94

DATE RECEIVED.: 06/30/94

TIME SAMPLED.: 11:05

TIME RECEIVED.: 09:45

WORK DESCRIPTION.: 9406281105

REMARKS.: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/**DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1100	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	1350	5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	318	30	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	1.24	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	218	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	0.21	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	63.8	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	3.16	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	0.05	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	38	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	610	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/12/94

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CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0006

DATE SAMPLED: 06/28/94

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TIME SAMPLED: 11:05

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WORK DESCRIPTION: 9406281105

REMARKS: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
601-VOLATILE HALOCARBON ORGANICS		*5		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	5	ug/L			
Bromoform	ND	5	ug/L			
Bromomethane	ND	25	ug/L			
Carbon tetrachloride	ND	5	ug/L			
Chlorobenzene	ND	5	ug/L			
Chloroethane	ND	25	ug/L			
2-Chloroethylvinyl ether	ND	5	ug/L			
Chloroform	ND	5	ug/L			
Chloromethane	ND	25	ug/L			
Dibromochloromethane	ND	5	ug/L			
1,2-Dichlorobenzene	ND	5	ug/L			
1,3-Dichlorobenzene	ND	5	ug/L			
1,4-Dichlorobenzene	ND	5	ug/L			
Dichlorodifluoromethane	ND	5	ug/L			
1,1-Dichloroethane	ND	5	ug/L			
1,2-Dichloroethane	ND	5	ug/L			
1,1-Dichloroethene	ND	5	ug/L			
trans-1,2-Dichloroethene	ND	5	ug/L			
1,2-Dichloropropane	ND	5	ug/L			
cis-1,3-Dichloropropene	ND	5	ug/L			
trans-1,3-Dichloropropene	ND	5	ug/L			
Methylene chloride	40 B	25	ug/L			
1,1,2,2-Tetrachloroethane	ND	5	ug/L			
Tetrachloroethene	ND	5	ug/L			
1,1,1-Trichloroethane	ND	5	ug/L			
1,1,2-Trichloroethane	ND	5	ug/L			
Trichloroethene	ND	5	ug/L			
Trichlorofluoromethane	ND	25	ug/L			
Vinyl chloride	ND	25	ug/L			
m-Chlorotoluene (Surrogate)	80	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*5		602 (6)	07/11/94	*AN
Benzene	17	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	19	5	ug/L			
Xylenes	30	5	ug/L			
m-Chlorotoluene (Surrogate)	81	0	% Recovery	64-147% Limit		
610 - PAH'S BY 8270		*1		8270 (2)	07/26/94	DMJ

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/28/94
TIME SAMPLED: 11:05
WORK DESCRIPTION: 9406281105

LABORATORY I.D.: 941627-0006
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
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			
Nitrobenzene-d5 (Surrogate)	97	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	111	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	65	0	% Recovery	33-141% Limit		
Time Analyzed	2129	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/26/94	DMJ
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)	97	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	111	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	65	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	89	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	58	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	105	0	% Recovery	10-123% Limit		
Time Analyzed	2129	0				
Date Extracted	07/03/94	0				

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0007

DATE SAMPLED: 06/28/94

DATE RECEIVED: 06/30/94

TIME SAMPLED: 12:00

TIME RECEIVED: 09:45

WORK DESCRIPTION: 9406281200

REMARKS: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.67	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	4.78	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Manganese, Diss. (Mn)	4.13	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	0.07	0.04	mg/L	6010 (2)	07/20/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
601-VOLATILE HALOCARBON ORGANICS		*500		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	500	ug/L			
Bromoform	ND	500	ug/L			
Bromomethane	ND	2500	ug/L			
Carbon tetrachloride	ND	500	ug/L			
Chlorobenzene	ND	500	ug/L			
Chloroethane	ND	2500	ug/L			
2-Chloroethylvinyl ether	ND	500	ug/L			
Chloroform	ND	500	ug/L			
Chloromethane	ND	2500	ug/L			
Dibromochloromethane	ND	500	ug/L			
1,2-Dichlorobenzene	ND	500	ug/L			

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ATTN:
CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/28/94

TIME SAMPLED: 12:00

WORK DESCRIPTION: 9406281200

LABORATORY I.D.: 941627-0007

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
1,3-Dichlorobenzene	ND	500	ug/L			
1,4-Dichlorobenzene	ND	500	ug/L			
Dichlorodifluoromethane	ND	500	ug/L			
1,1-Dichloroethane	ND	500	ug/L			
1,2-Dichloroethane	ND	500	ug/L			
1,1-Dichloroethene	ND	500	ug/L			
trans-1,2-Dichloroethene	ND	500	ug/L			
1,2-Dichloropropane	ND	500	ug/L			
cis-1,3-Dichloropropene	ND	500	ug/L			
trans-1,3-Dichloropropene	ND	500	ug/L			
Methylene chloride	3800 B	2500	ug/L			
1,1,2,2-Tetrachloroethane	ND	500	ug/L			
Tetrachloroethene	ND	500	ug/L			
1,1,1-Trichloroethane	ND	500	ug/L			
1,1,2-Trichloroethane	ND	500	ug/L			
Trichloroethene	ND	500	ug/L			
Trichlorofluoromethane	ND	2500	ug/L			
Vinyl chloride	ND	2500	ug/L			
m-Chlorotoluene (Surrogate)	77	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	07/11/94	*AN
Benzene	23000	500	ug/L			
Toluene	ND	500	ug/L			
Ethyl benzene	ND	500	ug/L			
Xylenes	ND	500	ug/L			
m-Chlorotoluene (Surrogate)	81	0	% Recovery	64-147% Limit		
610 - PAH'S BY 8270		*5		8270 (2)	07/26/94	DMJ
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	160	50	ug/L			
2-Methylnaphthalene	180	50	ug/L			

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CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0007

DATE SAMPLED: 06/28/94

DATE RECEIVED: 06/30/94

TIME SAMPLED: 12:00

TIME RECEIVED: 09:45

WORK DESCRIPTION: 9406281200

REMARKS: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Naphthalene	230	50	ug/L			
Phenanthrene	ND	50	ug/L			
Pyrene	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	94	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	113	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	60	0	% Recovery	33-141% Limit		
Time Analyzed	2026	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*5		8270 (2)	07/26/94	DMJ
4-Chloro-3-methylphenol	ND	50	ug/L			
2-Chlorophenol	ND	50	ug/L			
2,4-Dichlorophenol	ND	50	ug/L			
2,4-Dimethylphenol	ND	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	300	250	ug/L			
2,4,6-Trichlorophenol	ND	50	ug/L			
Nitrobenzene-d5 (Surrogate)	94	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	113	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	60	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	86	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	57	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	121	0	% Recovery	10-123% Limit		
Time Analyzed	2026	0				
Date Extracted	07/03/94	0				
Total Petroleum Hydrocarbon (I.R.)	6	1	mg/L	418.1 (1)	07/12/94	TSK

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Core Laboratories
LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8352
DATE SAMPLED: 06/28/94
TIME SAMPLED: 12:50
WORK DESCRIPTION: 9406281250

LABORATORY I.D.: 941627-0008
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.31	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Manganese, Diss. (Mn)	2.77	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
601-VOLATILE HALOCARBON ORGANICS		*1		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	1	ug/L			
Bromoform	ND	1	ug/L			
Bromomethane	ND	5	ug/L			
Carbon tetrachloride	ND	1	ug/L			
Chlorobenzene	ND	1	ug/L			
Chloroethane	ND	5	ug/L			
2-Chloroethylvinyl ether	ND	1	ug/L			
Chloroform	ND	1	ug/L			
Chloromethane	ND	5	ug/L			
Dibromochloromethane	ND	1	ug/L			
1,2-Dichlorobenzene	ND	1	ug/L			

(NOTE: PAH & PHENOLS Broken)

601 & 602 Also Analysed.

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LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

LABORATORY I.D.: 941627-0008

DATE SAMPLED.: 06/28/94

DATE RECEIVED.: 06/30/94

TIME SAMPLED.: 12:50

TIME RECEIVED.: 09:45

WORK DESCRIPTION.: 9406281250

REMARKS.: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
1,3-Dichlorobenzene	ND	1	ug/L			
1,4-Dichlorobenzene	ND	1	ug/L			
Dichlorodifluoromethane	ND	1	ug/L			
1,1-Dichloroethane	ND	1	ug/L			
1,2-Dichloroethane	17	1	ug/L			
1,1-Dichloroethene	ND	1	ug/L			
trans-1,2-Dichloroethene	ND	1	ug/L			
1,2-Dichloropropane	ND	1	ug/L			
cis-1,3-Dichloropropene	ND	1	ug/L			
trans-1,3-Dichloropropene	ND	1	ug/L			
Methylene chloride	9 B	5	ug/L			
1,1,2,2-Tetrachloroethane	ND	1	ug/L			
Tetrachloroethene	ND	1	ug/L			
1,1,1-Trichloroethane	ND	1	ug/L			
1,1,2-Trichloroethane	ND	1	ug/L			
Trichloroethene	ND	1	ug/L			
Trichlorofluoromethane	ND	5	ug/L			
Vinyl chloride	ND	5	ug/L			
m-Chlorotoluene (Surrogate)	78	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/11/94	*AN
Benzene	ND	1	ug/L			
Toluene	ND	1	ug/L			
Ethyl benzene	ND	1	ug/L			
Xylenes	2	1	ug/L			
m-Chlorotoluene (Surrogate)	79	0	% Recovery	64-147% Limit		
Total Petroleum Hydrocarbon (I.R.)	1	1	mg/L	418.1 (1)	07/12/94	TSK

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8352

DATE SAMPLED: 06/28/94

TIME SAMPLED: 14:45

WORK DESCRIPTION: 9406281445

LABORATORY I.D.: 941627-0009

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Aluminum, Diss. (Al)	0.32	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.28	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	0.52	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Manganese, Diss. (Mn)	1.06	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
601-VOLATILE HALOCARBON ORGANICS		*5		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	5	ug/L			
Bromoform	ND	5	ug/L			
Bromomethane	ND	25	ug/L			
Carbon tetrachloride	ND	5	ug/L			
Chlorobenzene	ND	5	ug/L			
Chloroethane	ND	25	ug/L			
2-Chloroethylvinyl ether	ND	5	ug/L			
Chloroform	ND	5	ug/L			
Chloromethane	ND	25	ug/L			
Dibromochloromethane	ND	5	ug/L			
1,2-Dichlorobenzene	ND	5	ug/L			

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8352

LABORATORY I.D....: 941627-0009

DATE SAMPLED.....: 06/28/94

DATE RECEIVED.....: 06/30/94

TIME SAMPLED.....: 14:45

TIME RECEIVED.....: 09:45

WORK DESCRIPTION....: 9406281445

REMARKS.....: MW-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
1,3-Dichlorobenzene	ND	5	ug/L			
1,4-Dichlorobenzene	ND	5	ug/L			
Dichlorodifluoromethane	ND	5	ug/L			
1,1-Dichloroethane	ND	5	ug/L			
1,2-Dichloroethane	ND	5	ug/L			
1,1-Dichloroethene	ND	5	ug/L			
trans-1,2-Dichloroethene	ND	5	ug/L			
1,2-Dichloropropane	ND	5	ug/L			
cis-1,3-Dichloropropene	ND	5	ug/L			
trans-1,3-Dichloropropene	ND	5	ug/L			
Methylene chloride	59 B	25	ug/L			
1,1,2,2-Tetrachloroethane	ND	5	ug/L			
Tetrachloroethene	ND	5	ug/L			
1,1,1-Trichloroethane	ND	5	ug/L			
1,1,2-Trichloroethane	ND	5	ug/L			
Trichloroethene	ND	5	ug/L			
Trichlorofluoromethane	ND	25	ug/L			
Vinyl chloride	ND	25	ug/L			
m-Chlorotoluene (Surrogate)	82	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*5		602 (6)	07/11/94	*AN
Benzene	34	5	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	13	5	ug/L			
Xylenes	13	5	ug/L			
m-Chlorotoluene (Surrogate)	80	0	% Recovery	64-147% Limit		
610 - PAH'S BY 8270		*1		8270 (2)	07/25/94	DMJ
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	41	10	ug/L			

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627
CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.
ATTN:
CLIENT I.D.....: REXENE COC #8352
LABORATORY I.D....: 941627-0009
DATE SAMPLED.....: 06/28/94
DATE RECEIVED.....: 06/30/94
TIME SAMPLED.....: 14:45
TIME RECEIVED.....: 09:45
WORK DESCRIPTION...: 9406281445
REMARKS.....: MW-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Naphthalene	15	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	74	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	83	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	35	0	% Recovery	33-141% Limit		
Time Analyzed	1511	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/25/94	DMJ
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)	83	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	35	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	70	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	44	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	57	0	% Recovery	10-123% Limit		
Time Analyzed	1511	0				
Date Extracted	07/03/94	0				
Total Petroleum Hydrocarbon (I.R.)	11	5	mg/L	418.1 (1)	07/12/94	TSK

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LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....:
LABORATORY I.D....: 941627-0010

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
601-VOLATILE HALOCARBON ORGANICS		*1		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	1	ug/L			
Bromoform	ND	1	ug/L			
Bromomethane	ND	5	ug/L			
Carbon tetrachloride	ND	1	ug/L			
Chlorobenzene	ND	1	ug/L			
Chloroethane	ND	5	ug/L			
2-Chloroethylvinyl ether	ND	1	ug/L			
Chloroform	ND	1	ug/L			
Chloromethane	ND	5	ug/L			
Dibromochloromethane	ND	1	ug/L			
1,2-Dichlorobenzene	ND	1	ug/L			
1,3-Dichlorobenzene	ND	1	ug/L			
1,4-Dichlorobenzene	ND	1	ug/L			
Dichlorodifluoromethane	ND	1	ug/L			
1,1-Dichloroethane	ND	1	ug/L			
1,2-Dichloroethane	ND	1	ug/L			
1,1-Dichloroethene	ND	1	ug/L			
trans-1,2-Dichloroethene	ND	1	ug/L			
1,2-Dichloropropane	ND	1	ug/L			
cis-1,3-Dichloropropene	ND	1	ug/L			
trans-1,3-Dichloropropene	ND	1	ug/L			
Methylene chloride	12	5	ug/L			
1,1,2,2-Tetrachloroethane	ND	1	ug/L			
Tetrachloroethene	ND	1	ug/L			
1,1,1-Trichloroethane	ND	1	ug/L			
1,1,2-Trichloroethane	ND	1	ug/L			
Trichloroethene	ND	1	ug/L			
Trichlorofluoromethane	ND	5	ug/L			
Vinyl chloride	ND	5	ug/L			
m-Chlorotoluene (Surrogate)	85	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/11/94	*AN
Benzene	ND	1	ug/L			
Toluene	ND	1	ug/L			
Ethyl benzene	ND	1	ug/L			
Xylenes	ND	1	ug/L			
m-Chlorotoluene (Surrogate)	80	0	% Recovery	64-147% Limit		
610 - PAH'S BY 8270		*1		8270 (2)	07/11/94	DMJ
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			

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LABORATORY TESTS RESULTS
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 941627-0010

DATE RECEIVED.....: / /

TIME RECEIVED.....:

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
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			
Nitrobenzene-d5 (Surrogate)	82	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Time Analyzed	1247	0				
Date Extracted	07/03/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/11/94	DMJ
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)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	66	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	54	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	93	0	% Recovery	10-123% Limit		
Time Analyzed	1247	0				
Date Extracted	07/03/94	0				

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LABORATORY TESTS RESULTS 08/12/94

JOB NUMBER: 941627
CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.
ATTN:
CLIENT I.D.....: REXENE COC #8352
DATE SAMPLED.....: 06/28/94
TIME SAMPLED.....: 12:50
WORK DESCRIPTION...: 9406281250 DUPLICATE
LABORATORY I.D....: 941627-0011
DATE RECEIVED.....: 06/30/94
TIME RECEIVED.....: 09:45
REMARKS.....: MW-16 DUP

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
601-VOLATILE HALOCARBON ORGANICS		*1		601 (6)	07/11/94	*AN
Bromodichloromethane	ND	1	ug/L			
Bromoform	ND	1	ug/L			
Bromomethane	ND	5	ug/L			
Carbon tetrachloride	ND	1	ug/L			
Chlorobenzene	ND	1	ug/L			
Chloroethane	ND	5	ug/L			
2-Chloroethylvinyl ether	ND	1	ug/L			
Chloroform	ND	1	ug/L			
Chloromethane	ND	5	ug/L			
Dibromochloromethane	ND	1	ug/L			
1,2-Dichlorobenzene	ND	1	ug/L			
1,3-Dichlorobenzene	ND	1	ug/L			
1,4-Dichlorobenzene	ND	1	ug/L			
Dichlorodifluoromethane	ND	1	ug/L			
1,1-Dichloroethane	ND	1	ug/L			
1,2-Dichloroethane	16	1	ug/L			
1,1-Dichloroethene	ND	1	ug/L			
trans-1,2-Dichloroethene	ND	1	ug/L			
1,2-Dichloropropane	ND	1	ug/L			
cis-1,3-Dichloropropene	ND	1	ug/L			
trans-1,3-Dichloropropene	ND	1	ug/L			
Methylene chloride	10 B	5	ug/L			
1,1,2,2-Tetrachloroethane	ND	1	ug/L			
Tetrachloroethene	ND	1	ug/L			
1,1,1-Trichloroethane	ND	1	ug/L			
1,1,2-Trichloroethane	ND	1	ug/L			
Trichloroethene	ND	1	ug/L			
Trichlorofluoromethane	ND	5	ug/L			
Vinyl chloride	ND	5	ug/L			
m-Chlorotoluene (Surrogate)	85	0	% Recovery	48-132% Limit		
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/11/94	*AN
Benzene	ND	1	ug/L			
Toluene	1	1	ug/L			
Ethyl benzene	ND	1	ug/L			
Xylenes	11	1	ug/L			
m-Chlorotoluene (Surrogate)	85	0	% Recovery	64-147% Limit		

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Nitrogen, Nitrate (Unfilt.)				DATE/TIME ANALYZED:06/30/94 14:30				QC BATCH NUMBER:300779		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L (as N)				METHOD REFERENCE :353.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940630	<0.1							
BLANK	CCB	940630	<0.1							
BLANK	CCB	940630	<0.1							
STANDARD	ICV/LCS	G931013B	1.0			1.0	100			
STANDARD	CCV	S3.0	3.1			3.0	103			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941624-1	1.0					<0.1	1.0	100
SPIKE	MS	941634-1	2.3					1.4	1.0	90
DUPLICATE	MD	941624-1	<0.1	<0.1	NC					
DUPLICATE	MD	941634-1	1.4	1.4	0					

PARAMETER:Bicarbonate (Unfilt.)				DATE/TIME ANALYZED:07/11/94 10:00				QC BATCH NUMBER:301510		
REPORTING LIMIT/DF: 5 UNITS:mg/L				METHOD REFERENCE :2320 B (3)				TECHNICIAN:KDS		
BLANK	MB	940711	<5							
DUPLICATE	MD	941626-10	592	590	0					
DUPLICATE	MD	941627-6	1100	1080	2					

PARAMETER:Total Petroleum Hydrocarbon (I.R.)				DATE/TIME ANALYZED:07/12/94 07:00				QC BATCH NUMBER:301586		
REPORTING LIMIT/DF: 1 UNITS:mg/L				METHOD REFERENCE :418.1 (1)				TECHNICIAN:TSK		
BLANK	ICB	S0	<1							
BLANK	MB	940712	<1							
BLANK	CCB	S0	<1							
STANDARD	ICV/LCS	940114	44			46	96			
STANDARD	CCV	S50	50			50	100			

PARAMETER:Calcium, Total (Ca)				DATE/TIME ANALYZED:07/19/94 11:21				QC BATCH NUMBER:302166		
REPORTING LIMIT/DF: 1.0 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	99.2			100	99			
STANDARD	ISA	0609A	466			500	93			
STANDARD	ISB	0710A	439			500	88			

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Calcium, Total (Ca)				DATE/TIME ANALYZED: 07/19/94 11:21				QC BATCH NUMBER: 302166		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511K	98.6			100	99			
STANDARD	CCV	0511K	100			100	100			
STANDARD	CCV	0511K	93.8			100	94			
STANDARD	ICV	0426G	103			100	103			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	LCS	0426D	104			100	104			
STANDARD	LCS	0426D	102			100	102			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	CCV	0511K	93.3			100	93			
STANDARD	ISA	0609A	418			500	84			
STANDARD	ISB	0710A	406			500	81			
STANDARD	CCV	0511K	93.8			100	94			
SPIKE	MS	941626-002	150					106	50.0	88
SPIKE	PDS	941574-003	86.8					40.4	50.0	93
SPIKE	PDS	941765-001	64.8					15.4	50.0	99
DUPLICATE	MD	941626-001	18.2	17.9	2					
DUPLICATE	MD	941765-001	15.4	15.0	3					
DUPLICATE	MD	941574-001	13.5	13.7	1					

PARAMETER: Potassium, Total (K)				DATE/TIME ANALYZED: 07/19/94 11:21				QC BATCH NUMBER: 302171		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0714C	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0712E	9.4			10.0	94			
STANDARD	ICV	0314B	9.2			10.0	92			
STANDARD	CCV	0712E	10.8			10.0	108			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	CCV	0712E	9.1			10.0	91			
STANDARD	CCV	0712E	10.0			10.0	100			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	CCV	0712E	10.3			10.0	103			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	ISB	0710A	9.7			10.0	97			
STANDARD	ISB	0710A	8.2			10.0	82			

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QUALITY CONTROL REPORT 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Potassium, Total (K)				DATE/TIME ANALYZED: 07/19/94 11:21				QC BATCH NUMBER: 302171		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		

SPIKE	MS	941626-002	70.3					13.7	50.0	113
DUPLICATE	MD	941574-001	0.7	0.7	0					

PARAMETER: Potassium, Total (K)				DATE/TIME ANALYZED: 07/19/94 13:20				QC BATCH NUMBER: 302172		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		

BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	103			100	103			
STANDARD	ICV	0426G	91.6			100	92			
STANDARD	CCV	0511K	103			100	103			
STANDARD	LCS	0426D	49.5			50.0	99			
STANDARD	LCS	0426D	49.8			50.0	100			
STANDARD	CCV	0511K	107			100	107			
STANDARD	CCV	0511K	99.7			100	100			
STANDARD	CCV	0511K	106			100	106			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	CCV	0511K	108			100	108			
STANDARD	CCV	0511K	91.1			100	91			
SPIKE	MS	941626-002	70.3					13.7	50.0	113
DUPLICATE	MD	941626-001	76.0	75.5	1					

PARAMETER: Magnesium, Total (Mg)				DATE/TIME ANALYZED: 07/19/94 13:23				QC BATCH NUMBER: 302173		
REPORTING LIMIT/DF: 0.5 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		

BLANK	ICB	0714C	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Magnesium, Total (Mg)				DATE/TIME ANALYZED:07/19/94 13:23				QC BATCH NUMBER:302173		
REPORTING LIMIT/DF: 0.5 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
STANDARD	CCV	0511K	96.8			100	97			
STANDARD	ISA	0609A	495			500	99			
STANDARD	ISB	0710A	467			500	93			
STANDARD	CCV	0511K	98.4			100	98			
STANDARD	CCV	0511K	97.6			100	98			
STANDARD	CCV	0511K	101			100	101			
STANDARD	ICV	0426G	100			100	100			
STANDARD	CCV	0511K	99.5			100	100			
STANDARD	LCS	0426D	101			100	101			
STANDARD	LCS	0426D	98.8			100	99			
STANDARD	CCV	0511K	97.1			100	97			
STANDARD	CCV	0511K	97.6			100	98			
STANDARD	ISA	0609A	498			500	100			
STANDARD	ISB	0710A	478			500	96			
STANDARD	CCV	0511K	99.1			100	99			
SPIKE	MS	941626-002	82.7					31.0	50.0	103
SPIKE	PDS	941574-003	51.6					1.3	50.0	101
SPIKE	PDS	941765-001	50.4					<0.5	50.0	101
DUPLICATE	MD	941765-001	<0.5	<0.5	NC					
DUPLICATE	MD	941626-001	7.5	7.5	0					

PARAMETER:Sodium, Total (Na)
REPORTING LIMIT/DF: 1.0 UNITS:mg/L

DATE/TIME ANALYZED:07/19/94 11:16
METHOD REFERENCE :6010 (2)

QC BATCH NUMBER:302175
TECHNICIAN:WGL

BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	ISB	0710A	543			500	109			
STANDARD	CCV	0511K	48.2			50.0	96			
STANDARD	CCV	0511K	50.1			50.0	100			
STANDARD	CCV	0511K	53.2			50.0	106			
STANDARD	ICV	0426G	46.9			50.0	94			
STANDARD	CCV	0511K	53.4			50.0	107			

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JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY

PARAMETER: Sodium, Total (Na) DATE/TIME ANALYZED: 07/19/94 11:16 QC BATCH NUMBER: 302175
REPORTING LIMIT/DF: 1.0 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

STANDARD	LCS	0426D	94.5			100	94			
STANDARD	LCS	0426D	93.4			100	93			
STANDARD	CCV	0511K	51.1			50.0	102			
STANDARD	CCV	0511K	50.5			50.0	101			
STANDARD	ISA	0609A	564			500	113			
STANDARD	ISB	0710A	531			500	106			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	49.2			50.0	98			
STANDARD	ISA	0609A	581			500	116			
SPIKE	PDS	941574-003	78.6					33.3	50.0	91
SPIKE	PDS	941765-001	81.4					33.4	50.0	96
SPIKE	MS	941574-003	36.3					33.3	5.0	60
SPIKE	MS	941626-002	14.8					10.5	5.0	86
DUPLICATE	MD	941626-001	66.1	66.1	0					
DUPLICATE	MD	941765-001	33.4	32.0	4					

PARAMETER: Chloride (Unfilt.) DATE/TIME ANALYZED: 07/20/94 10:00 QC BATCH NUMBER: 302260
REPORTING LIMIT/DF: 0.5 UNITS: mg/L METHOD REFERENCE : 325.2 (1) TECHNICIAN: DME

BLANK	ICB	940720	<0.5							
BLANK	CCB	940720	<0.5							
BLANK	CCB	940720	<0.5							
BLANK	CCB	940720	<0.5							
STANDARD	ICV/LCS	G931229C	50.9			50.0	102			
STANDARD	CCV	S160	162			160	101			
STANDARD	CCV	S160	164			160	102			
STANDARD	CCV	S160	160			160	100			
SPIKE	MS	941590-1	102					52.7	50.0	99
SPIKE	MS	941629-3	57.7					5.5	50.0	104
SPIKE	MS	941629-21	56.3					5.1	50.0	102
DUPLICATE	MD	941590-1	52.7	53.0	1					
DUPLICATE	MD	941629-3	5.4	6.2	14					
DUPLICATE	MD	941629-21	5.1	5.0	2					

PARAMETER: Silver, Diss. (Ag) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302289
REPORTING LIMIT/DF: 0.01 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Silver, Diss. (Ag)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302289		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0223C	1.95			2.00	98			
STANDARD	CCV	0511J	2.43			2.50	97			
STANDARD	CCV	0511J	2.51			2.50	100			
STANDARD	CCV	0511J	2.48			2.50	99			
STANDARD	ISB	0710A	0.99			1.00	99			
STANDARD	CCV	0511J	2.30			2.50	92			
STANDARD	CCV	0511J	2.45			2.50	98			
STANDARD	CCV	0511J	2.74			2.50	110			
STANDARD	CCV	0511J	2.52			2.50	101			
STANDARD	ISB	0710A	1.17			1.00	117			
STANDARD	CCV	0511J	2.43			2.50	97			
STANDARD	CCV	0511J	2.42			2.50	97			
SPIKE	PDS	941626-002	0.89					<0.01	1.00	89
SPIKE	PDS	941598-008	0.89					0.05	1.00	84
SPIKE	PDS	941627-001	0.95					<0.01	1.00	95
DUPLICATE	MD	941626-002	<0.01	<0.01	NC					
DUPLICATE	MD	941627-001	<0.01	<0.01	NC					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Aluminum, Diss. (Al) DATE/TIME ANALYZED: 07/20/94 14:51 QC BATCH NUMBER: 302290
REPORTING LIMIT/DF: 0.05 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	CCV	0511G	9.43			10.0	94			
STANDARD	CCV	0511G	9.54			10.0	95			
STANDARD	CCV	0511G	9.46			10.0	95			
STANDARD	ICV	0223C	2.04			2.00	102			
STANDARD	CCV	0511G	9.83			10.0	98			
STANDARD	CCV	0511G	9.74			10.0	97			
STANDARD	CCV	0511G	9.32			10.0	93			
STANDARD	ISA	0609A	439			500	88			
STANDARD	CCV	0511G	9.93			10.0	99			
STANDARD	CCV	0511G	9.62			10.0	96			
STANDARD	ISA	0609A	460			500	92			
STANDARD	ISB	0710A	442			500	88			
STANDARD	CCV	0511G	9.87			10.0	99			

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JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Aluminum, Diss. (Al)				DATE/TIME ANALYZED: 07/20/94 14:51				QC BATCH NUMBER: 302290		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		

STANDARD	ISB	0710A	422			500	84			
SPIKE	PDS	941626-002	3.10					1.20	2.00	95
SPIKE	PDS	941598-008	2.13					<0.05	2.00	106
SPIKE	PDS	941627-001	2.25					0.12	2.00	106
DUPLICATE	MD	941626-002	1.20	1.10	9					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	0.12	0.07	0.05					

PARAMETER: Arsenic, Diss. (As) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302291
REPORTING LIMIT/DF: 0.05 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	2.19			2.00	110			
STANDARD	CCV	0511G	2.64			2.50	106			
STANDARD	CCV	0511G	2.68			2.50	107			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.64			2.50	106			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.66			2.50	106			
STANDARD	ISB	0710A	1.02			1.00	102			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.65			2.50	106			
SPIKE	PDS	941626-002	1.06					<0.05	1.00	106
SPIKE	PDS	941598-008	1.04					<0.05	1.00	104
SPIKE	PDS	941627-001	1.12					0.08	1.00	104
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	0.08	0.09	0.01					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER: Barium, Diss. (Ba) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302292
REPORTING LIMIT/DF: 0.01 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Barium, Diss. (Ba)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302292		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0223C	2.19			2.00	110			
STANDARD	CCV	0511G	5.23			5.00	105			
STANDARD	CCV	0511G	5.38			5.00	108			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	ISB	0710A	0.52			0.50	104			
STANDARD	CCV	0511G	5.28			5.00	106			
STANDARD	CCV	0511G	5.33			5.00	107			
STANDARD	CCV	0511G	5.37			5.00	107			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	ISB	0710A	0.55			0.50	110			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	CCV	0511G	5.29			5.00	106			
SPIKE	PDS	941626-002	1.26					0.18	1.00	108
SPIKE	PDS	941598-008	1.31					0.20	1.00	111
SPIKE	PDS	941627-001	1.75					0.70	1.00	105
DUPLICATE	MD	941626-002	0.18	0.18	0					
DUPLICATE	MD	941627-001	0.70	0.70	0					
DUPLICATE	MD	941598-007	0.14	0.14	0					

PARAMETER: Cadmium, Diss. (Cd)
REPORTING LIMIT/DF: 0.005 UNITS: mg/L

DATE/TIME ANALYZED: 07/20/94 13:29
METHOD REFERENCE : 6010 (2)

QC BATCH NUMBER: 302294
TECHNICIAN: WGL

BLANK	ICB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
STANDARD	ICV	0524F	2.09			2.00	104			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.09			1.00	109			
STANDARD	ISB	0710A	0.878			1.00	88			
STANDARD	CCV	0511G	1.02			1.00	102			
STANDARD	CCV	0511G	1.07			1.00	107			

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QUALITY CONTROL REPORT 08/12/94

JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Cadmium, Diss. (Cd)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302294		
REPORTING LIMIT/DF: 0.005 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	ISB	0710A	0.939			1.00	94			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	CCV	0511G	1.05			1.00	105			
SPIKE	PDS	941626-002	0.998					<0.005	1.00	100
SPIKE	PDS	941598-008	1.01					<0.005	1.00	101
SPIKE	PDS	941627-001	0.825					<0.005	1.00	82
DUPLICATE	MD	941626-002	<0.005	<0.005	NC					
DUPLICATE	MD	941627-001	<0.005	<0.005	NC					
DUPLICATE	MD	941598-007	<0.005	<0.005	NC					

PARAMETER: Cobalt, Diss. (Co) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302295
REPORTING LIMIT/DF: 0.03 UNITS: mg/L METHOD REFERENCE :6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
STANDARD	ICV	0524F	2.11			2.00	106			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.45			0.50	90			
STANDARD	CCV	0511G	2.46			2.50	98			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.53			2.50	101			
STANDARD	CCV	0511G	2.56			2.50	102			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	2.53			2.50	101			
STANDARD	CCV	0511G	2.50			2.50	100			
SPIKE	PDS	941626-002	0.98					<0.03	1.00	98
SPIKE	PDS	941598-008	0.98					<0.03	1.00	98
SPIKE	PDS	941627-001	0.86					<0.03	1.00	86
DUPLICATE	MD	941626-002	<0.03	<0.03	NC					
DUPLICATE	MD	941627-001	<0.03	<0.03	NC					
DUPLICATE	MD	941598-007	<0.03	<0.03	NC					

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Chromium, Diss. (Cr)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302296		
REPORTING LIMIT/DF: 0.01 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	2.54			2.50	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.60			2.50	104			
STANDARD	ISB	0710A	0.46			0.50	92			
STANDARD	CCV	0511G	2.44			2.50	98			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.51			2.50	100			
SPIKE	PDS	941626-002	0.96					<0.01	1.00	96
SPIKE	PDS	941598-008	0.98					<0.01	1.00	98
SPIKE	PDS	941627-001	0.83					<0.01	1.00	83
DUPLICATE	MD	941626-002	<0.01	<0.01	NC					
DUPLICATE	MD	941627-001	<0.01	<0.01	NC					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER:Copper, Diss. (Cu)
REPORTING LIMIT/DF: 0.01 UNITS:mg/L

DATE/TIME ANALYZED:07/20/94 13:29
METHOD REFERENCE :6010 (2)

QC BATCH NUMBER:302297
TECHNICIAN:WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.05			2.00	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.63			2.50	105			

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ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Copper, Diss. (Cu)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302297		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	0.52			0.50	104			
STANDARD	CCV	0511G	2.65			2.50	106			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.70			2.50	108			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.57			0.50	114			
STANDARD	CCV	0511G	2.69			2.50	108			
STANDARD	CCV	0511G	2.60			2.50	104			
SPIKE	PDS	941626-002	1.04					0.01	1.00	103
SPIKE	PDS	941598-008	1.02					<0.01	1.00	102
SPIKE	PDS	941627-001	1.09					0.01	1.00	108
DUPLICATE	MD	941626-002	0.01	<0.01	0.01					
DUPLICATE	MD	941627-001	0.01	<0.01	0.01					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Iron, Diss. (Fe) DATE/TIME ANALYZED: 07/20/94 14:51 QC BATCH NUMBER: 302298
REPORTING LIMIT/DF: 0.03 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
STANDARD	CCV	0511G	5.09			5.00	102			
STANDARD	CCV	0511G	5.14			5.00	103			
STANDARD	CCV	0511G	5.18			5.00	104			
STANDARD	ICV	0524F	1.88			2.00	94			
STANDARD	CCV	0511G	5.31			5.00	106			
STANDARD	CCV	0511G	5.22			5.00	104			
STANDARD	CCV	0511G	4.97			5.00	99			
STANDARD	ISA	0609A	193			200	96			
STANDARD	CCV	0511G	5.09			5.00	102			
STANDARD	CCV	0511G	5.18			5.00	104			
STANDARD	ISA	0609A	193			200	96			
STANDARD	ISB	0710A	186			200	93			
STANDARD	CCV	0511G	5.13			5.00	103			
STANDARD	ISB	0710A	185			200	92			
STANDARD	CCV	0511G	5.12			5.00	102			

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ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Iron, Diss. (Fe)				DATE/TIME ANALYZED:07/20/94 14:51				QC BATCH NUMBER:302298		
REPORTING LIMIT/DF: 0.03 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
STANDARD	CCV	0511G	5.35			5.00	107			
STANDARD	CCV	0511G	5.15			5.00	103			
SPIKE	PDS	941626-002	3.74					1.96	2.00	89
SPIKE	PDS	941598-008	2.08					<0.03	2.00	104
SPIKE	PDS	941627-001	7.40					5.79	2.00	81
SPIKE	PDS	940673-289	2.25					<0.03	2.00	112
SPIKE	PDS	940673-299	2.23					<0.03	2.00	112
SPIKE	PDS	940673-309	2.32					<0.03	2.00	116
DUPLICATE	MD	941626-002	1.96	1.80	9					
DUPLICATE	MD	941598-007	<0.03	<0.03	NC					
DUPLICATE	MD	941627-001	5.79	5.70	2					
DUPLICATE	MD	940673-289	<0.03	<0.03	NC					
DUPLICATE	MD	940673-299	<0.03	<0.03	NC					
DUPLICATE	MD	940673-309	<0.03	<0.03	NC					

PARAMETER:Manganese, Diss. (Mn)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302302		
REPORTING LIMIT/DF: 0.01 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.15			2.00	108			
STANDARD	CCV	0511G	5.30			5.00	106			
STANDARD	CCV	0511G	5.40			5.00	108			
STANDARD	CCV	0511G	5.41			5.00	108			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	5.11			5.00	102			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	CCV	0511G	5.31			5.00	106			
STANDARD	ISB	0710A	0.50			0.50	100			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	CCV	0511G	5.25			5.00	105			
SPIKE	PDS	941626-002	2.42					1.42	1.00	100
SPIKE	PDS	941598-008	1.44					0.43	1.00	101
SPIKE	PDS	941627-001	1.14					0.23	1.00	91
DUPLICATE	MD	941626-002	1.42	1.41	1					
DUPLICATE	MD	941627-001	0.23	0.23	0					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

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JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Manganese, Diss. (Mn)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302302		
REPORTING LIMIT/DF: 0.01 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
PARAMETER:Molybdenum, Diss. (Mo)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302303		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		

BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	1.99			2.00	100			
STANDARD	CCV	0511G	2.47			2.50	99			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	ISB	0710A	0.89			1.00	89			
STANDARD	CCV	0511G	2.43			2.50	97			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.49			2.50	100			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.46			2.50	98			
SPIKE	PDS	941626-002	0.94					<0.05	1.00	94
SPIKE	PDS	941598-008	0.96					<0.05	1.00	96
SPIKE	PDS	941627-001	0.85					<0.05	1.00	85
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	<0.05	<0.05	NC					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER:Nickel, Diss. (Ni)	DATE/TIME ANALYZED:07/20/94 13:29	QC BATCH NUMBER:302305
REPORTING LIMIT/DF: 0.04 UNITS:mg/L	METHOD REFERENCE :6010 (2)	TECHNICIAN:WGL

BLANK	ICB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							

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ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Nickel, Diss. (Ni)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302305		
REPORTING LIMIT/DF: 0.04 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.63			2.50	105			
STANDARD	CCV	0511G	2.66			2.50	106			
STANDARD	ISB	0710A	0.83			1.00	83			
STANDARD	CCV	0511G	2.52			2.50	101			
STANDARD	CCV	0511G	2.62			2.50	105			
STANDARD	CCV	0511G	2.57			2.50	103			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	ISB	0710A	0.88			1.00	88			
STANDARD	CCV	0511G	2.59			2.50	104			
STANDARD	CCV	0511G	2.58			2.50	103			
SPIKE	PDS	941626-002	0.96					<0.04	1.00	96
SPIKE	PDS	941598-008	0.97					<0.04	1.00	97
SPIKE	PDS	941627-001	0.80					<0.04	1.00	80
DUPLICATE	MD	941626-002	<0.04	<0.04	NC					
DUPLICATE	MD	941627-001	<0.04	<0.04	NC					
DUPLICATE	MD	941598-007	<0.04	<0.04	NC					

PARAMETER: Lead, Diss. (Pb)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302306		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.08			1.00	108			
STANDARD	ISB	0710A	0.93			1.00	93			
STANDARD	CCV	0511G	1.02			1.00	102			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	ISB	0710A	0.96			1.00	96			
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.04			1.00	104			
SPIKE	PDS	941626-002	1.02					<0.05	1.00	102
SPIKE	PDS	941598-008	1.04					<0.05	1.00	104

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Core Laboratories
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JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Lead, Diss. (Pb)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302306		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		

SPIKE	PDS	941627-001	0.87					<0.05	1.00	87
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	<0.05	<0.05	NC					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER: Selenium, Diss. (Se) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302307
REPORTING LIMIT/DF: 0.1 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
STANDARD	ICV	0524F	2.2			2.0	110			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	ISB	0710A	0.9			1.0	90			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.7			2.5	108			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	ISB	0710A	1.0			1.0	100			
STANDARD	CCV	0511G	2.7			2.5	108			
STANDARD	CCV	0511G	2.6			2.5	104			
SPIKE	PDS	941626-002	1.2					<0.1	1.0	120
SPIKE	PDS	941598-008	1.1					<0.1	1.0	110
SPIKE	PDS	941627-001	1.2					<0.1	1.0	120
DUPLICATE	MD	941626-002	<0.1	<0.1	NC					
DUPLICATE	MD	941627-001	<0.1	<0.1	NC					
DUPLICATE	MD	941598-007	<0.1	<0.1	NC					

PARAMETER: Zinc, Diss. (Zn) DATE/TIME ANALYZED: 07/20/94 13:29 QC BATCH NUMBER: 302308
REPORTING LIMIT/DF: 0.01 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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JOB NUMBER: 941627 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Zinc, Diss. (Zn)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302308		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		

BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.19			2.00	110			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.75			2.50	110			
STANDARD	CCV	0511G	2.71			2.50	108			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.63			2.50	105			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	CCV	0511G	2.72			2.50	109			
STANDARD	ISB	0710A	1.00			1.00	100			
STANDARD	CCV	0511G	2.68			2.50	107			
STANDARD	CCV	0511G	2.70			2.50	108			
SPIKE	PDS	941626-002	1.09					0.01	1.00	108
SPIKE	PDS	941598-008	1.10					<0.01	1.00	110
SPIKE	PDS	941627-001	0.96					0.02	1.00	94
DUPLICATE	MD	941626-002	0.01	0.01	0.00					
DUPLICATE	MD	941627-001	0.02	0.02	0.00					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Mercury, Total (Hg) DATE/TIME ANALYZED: 07/20/94 14:30 QC BATCH NUMBER: 302347
REPORTING LIMIT/DF: 0.0002 UNITS: mg/L METHOD REFERENCE : 7470 (2) TECHNICIAN: LMT

BLANK	ICB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
STANDARD	ICV	0311G	0.0040			0.0040	100			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
STANDARD	CCV	1228Q	0.0025			0.0025	100			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
SPIKE	MS	941626-002	0.0047					<0.0002	0.0050	94
SPIKE	MS	941627-002	0.0044					<0.0002	0.0050	88
DUPLICATE	MD	941627-001	<0.0002	<0.0002	NC					
DUPLICATE	MD	941626-001	<0.0002	<0.0002	NC					

PARAMETER: Sulfate (Unfilt.) DATE/TIME ANALYZED: 07/22/94 10:00 QC BATCH NUMBER: 302575
REPORTING LIMIT/DF: 10 UNITS: mg/L METHOD REFERENCE : 375.2 (1) TECHNICIAN: DME

BLANK	ICB	940722	<10							
BLANK	CCB	940722	<10							

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Core Laboratories
QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Sulfate (Unfilt.)				DATE/TIME ANALYZED:07/22/94 10:00				QC BATCH NUMBER:302575		
REPORTING LIMIT/DF: 10 UNITS:mg/L				METHOD REFERENCE :375.2 (1)				TECHNICIAN:DME		
BLANK	CCB	940722	<10							
BLANK	CCB	940722	<10							
BLANK	CCB	940722	<10							
STANDARD	ICV/LCS	G940415A	150			150	100			
STANDARD	CCV	S120	117			120	98			
STANDARD	CCV	S120	121			120	101			
STANDARD	CCV	S120	122			120	102			
STANDARD	CCV	S120	124			120	103			
SPIKE	MS	941626-2	194					150	50	88
SPIKE	MS	941626-9	139					93	50	92
SPIKE	MS	941634-1	151					106	50	90
SPIKE	MS	941665-4	58					<10	50	116
DUPLICATE	MD	941626-2	150	150	0					
DUPLICATE	MD	941626-9	93	94	1					
DUPLICATE	MD	941634-1	106	105	1					
DUPLICATE	MD	941665-4	<10	<10	NC					

PARAMETER:Chloride (Unfilt.) **DATE/TIME ANALYZED:**07/22/94 14:00 **QC BATCH NUMBER:**302583
REPORTING LIMIT/DF: 0.5 UNITS:mg/L **METHOD REFERENCE :**325.2 (1) **TECHNICIAN:**DME

BLANK	ICB	940722	<0.5							
BLANK	CCB	940722	<0.5							
STANDARD	ICV/LCS	G931229C	51.8			50.0	104			
STANDARD	CCV	S160	159			160	99			
SPIKE	MS	941643-2	50.1					1.2	50.0	98
DUPLICATE	MD	941643-2	1.2	1.0	0.2					

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QUALITY CONTROL REPORT
08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
601-VOLATILE HALOCARBON ORGANICS
DATE ANALYZED: 07/11/94 **TIME ANALYZED:** 10:00 **METHOD:** 601 (6)

QC NUMBER: 301792

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
Chlorobenzene	MS	941651-3	1	51	0	50	102	1	ug/L
	MSD	941651-3	1	53	0	50	106	1	ug/L
1,1-Dichloroethene	MS	941651-3	1	50	0	50	100	1	ug/L
	MSD	941651-3	1	52	0	50	104	1	ug/L
Tetrachloroethene	MS	941651-3	1	52	0	50	104	1	ug/L
	MSD	941651-3	1	57	0	50	114	1	ug/L
m-Chlorotoluene (Surrogate)	MS	941651-3	1	113	0	100	113	0	48-132% Limit
	MSD	941651-3	1	114	0	100	114	0	48-132% Limit

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QUALITY CONTROL REPORT 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/11/94 TIME ANALYZED: 10:00 METHOD: 602 (6)

QC NUMBER: 301797

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	941651-3	1	47	0	50	94	1	ug/L
	MSD	941651-3	1	50	0	50	100	1	ug/L
Toluene	MS	941651-3	1	51	0	50	102	1	ug/L
	MSD	941651-3	1	53	0	50	106	1	ug/L
m-Chlorotoluene (Surrogate)	MS	941651-3	1	96	0	100	96	0	64-147% Limit
	MSD	941651-3	1	99	0	100	99	0	64-147% Limit

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QUALITY CONTROL REPORT 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 07/11/94 TIME ANALYZED: 11:18 METHOD: 8270 (2)

QC NUMBER:303677

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB	2313	1	0	0	
	SBD	0014 07/12	1	0	0	
Date Extracted	SB	07/03/94	1	0	0	
	SBD	07/03/94	1	0	0	

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QUALITY CONTROL REPORT 08/12/94

JOB NUMBER: 941627

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 07/11/94 TIME ANALYZED: 11:18 METHOD: 8270 (2)

QC NUMBER:303677

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	46.8	50	94	10	ug/L
	SBD	B940331A	1	33.5	50	67	10	ug/L
2-Chlorophenol	SB	B940331A	1	42.0	50	84	10	ug/L
	SBD	B940331A	1	30.1	50	60	10	ug/L
1,4-Dichlorobenzene	SB	B940331A	1	35.5	50	71	10	ug/L
	SBD	B940331A	1	26.4	50	53	10	ug/L
N-Nitrosodi-n-propylamine	SB	B940331A	1	45.4	50	91	10	ug/L
	SBD	B940331A	1	38.3	50	77	10	ug/L
1,2,4-Trichlorobenzene	SB	B940331A	1	34.9	50	70	10	ug/L
	SBD	B940331A	1	26.9	50	54	10	ug/L
4-Chloro-3-methylphenol	SB	B940331A	1	46.0	50	92	10	ug/L
	SBD	B940331A	1	39.3	50	79	10	ug/L
Acenaphthene	SB	B940331A	1	39.5	50	79	10	ug/L
	SBD	B940331A	1	32.7	50	65	10	ug/L
4-Nitrophenol	SB	B940331A	1	36.0	50	72	1	ug/L
	SBD	B940331A	1	29.6	50	59	1	ug/L
2,4-Dinitrotoluene	SB	B940331A	1	44.8	50	90	10	ug/L
	SBD	B940331A	1	40.4	50	81	10	ug/L
Pentachlorophenol	SB	B940331A	1	57.7	50	115	1	ug/L
	SBD	B940331A	1	44.7	50	89	1	ug/L
Pyrene	SB	B940331A	1	40.9	50	82	10	ug/L
	SBD	B940331A	1	37.9	50	76	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	85	100	85	0	35-114% Limit
	SBD	B940331A	1	69	100	69	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	80	100	80	0	43-116% Limit
	SBD	B940331A	1	67	100	67	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	88	100	88	0	33-141% Limit
	SBD	B940331A	1	83	100	83	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	78	100	78	0	10-94% Limit
	SBD	B940331A	1	57	100	57	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	63	100	63	0	21-100% Limit
	SBD	B940331A	1	40	100	40	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	114	100	114	0	10-123% Limit
	SBD	B940331A	1	105	100	105	0	10-123% Limit

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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>	<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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CORRECT

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 941724

Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 08/09/94

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OCT 13 1994

OIL CONSERVATION DIV.
SANTA FE

Linda L. Benkers
Signature

8-9-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



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Lanham, MD 20706-4325
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PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

Chain of Custody

NO 8355

Date July 12, 1994 Page 1 of 3

Analysis Request

Lab Name CORE LABORATORIES		Address 10703 East Bethany Drive Aurora, CO 80014-2696		Telephone 303/751-1780	
Samplers (SIGNATURES)		Matrix		Location	
Sample Number	Matrix	Location		Halogenated Volatiles 601/8010	
9407120600	H2O	mw-8		Aromatic Volatiles 602/8020	
9407120650	H2O	mw-2		Phenols, Sub Phenols 604/8040	
9407120750	H2O	mw-13		Pesticides/PCB 608/8080	
9407120810	H2O	mw-5d		Polynuclear Aromatic Hydrocarbons 610/8310	
9407120805	H2O	mw-5		Volatile Compounds GC/MS 624/8240	
9407120835	H2O	mw-14		Base/New Acid Compounds GC/MS 626/8270	
9407120850	H2O	mw-7		Total Organic Carbon (TOC) 415/9060	
9407120920	H2O	mw-17		Total Organic Halides (TOX) 9020	
9407120725	H2O	mw-4		Petroleum Hydrocarbons 418.1	
9407120950	H2O	mw-11		TPH/TEX Modified 8015	
Project Information		Sample Receipt		TCLP- Vol., Semi-Vol. Herbicides, Pesticides	
Project Name	Total No. of Containers	Relinquished By		TCLP- Metals	
Project Director	Chain of Custody Seals	Signature		RCRA Metals(8)	
Charge Code No.	Rec'd Good Condition/Cold	Date		Priority Pollutant Metals (13)	
Shipping ID. No.	Conforms to Record	Company		CAM Metals (18) TLC/STLC	
Via: Fed X	Lab No. 941724	Received By		Flash Point	
Special Instructions/Comments:		Signature		Corrosivity	
		Date		Reactivity	
		Company		Oil & Grease	
		Received By		Cyanide Total/Amenable	
		Signature		Chemical Oxygen Demand (COD)	
		Date		NITRATE 353.2	
		Company		ANIONS & CATIONS	
		Received By (Laboratory)		Number of Containers	
		Signature			
		Date			
		Company			

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 9, 1994

Customer: Geoscience Consultants, Ltd.

Project: Rexene COC # 8355

Core Laboratories Project Number: 941724

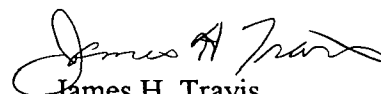
On 7-13-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Method 8020 GC Analysis :

The analysis run on 7-19-94 was not started with an initial CCV. The CCV 10 samples later passed. This affected samples 941724-2 (9407120650), 941724-3 (9407120750), and 941724-10 (9407120950).



Linda L. Benkers
QA/QC Coordinator



James H. Travis
Laboratory Supervisor

Core Laboratories

LABORATORY TESTS RESULTS

08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8355
 DATE SAMPLED: 07/12/94
 TIME SAMPLED: 06:00
 WORK DESCRIPTION: 9407120600

LABORATORY I.D.: 941724-0001
 DATE RECEIVED: 07/13/94
 TIME RECEIVED: 10:30
 REMARKS: MW-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*200		602 (6)	07/25/94	JHT
Benzene	2400	100	ug/L			
Toluene	ND	100	ug/L			
Ethyl benzene	ND	100	ug/L			
Xylenes	ND	100	ug/L			
4-Bromofluorobenzene (surrogate)	104	0	% Recovery	85-115% Limit		
Time Analyzed	2058	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8355

DATE SAMPLED 07/12/94

TIME SAMPLED 06:50

WORK DESCRIPTION: 9407120650

LABORATORY I.D.: 941724-0002

DATE RECEIVED 07/13/94

TIME RECEIVED 10:30

REMARKS MW-2

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	1559	0				

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LABORATORY TESTS RESULTS 08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8355

DATE SAMPLED: 07/12/94

TIME SAMPLED: 07:50

WORK DESCRIPTION: 9407120750

LABORATORY I.D.: 941724-0003

DATE RECEIVED: 07/13/94

TIME RECEIVED: 10:30

REMARKS: MW-13

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	1637	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**
CLIENT I.D.....: REXENE COC# 8355
DATE SAMPLED.....: 07/12/94
TIME SAMPLED.....: 08:10
WORK DESCRIPTION...: 9407120810

LABORATORY I.D....: 941724-0004
DATE RECEIVED.....: 07/13/94
TIME RECEIVED.....: 10:30
REMARKS.....: MW-5D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*200		602 (6)	07/25/94	JHT
Benzene	4200	100	ug/L			
Toluene	ND	100	ug/L			
Ethyl benzene	ND	100	ug/L			
Xylenes	130	100	ug/L			
4-Bromofluorobenzene (surrogate)	101	0	% Recovery	85-115% Limit		
Time Analyzed	2135	0				

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED: 07/12/94
TIME SAMPLED: 08:05
WORK DESCRIPTION: 9407120805

LABORATORY I.D.: 941724-0005
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*200		602 (6)	07/25/94	JHT
Benzene	5000	100	ug/L			
Toluene	ND	100	ug/L			
Ethyl benzene	ND	100	ug/L			
Xylenes	130	100	ug/L			
4-Bromofluorobenzene (surrogate)	100	0	% Recovery	85-115% Limit		
Time Analyzed	2211	0				

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED 07/12/94
TIME SAMPLED 08:35
WORK DESCRIPTION....: 9407120835

LABORATORY I.D....: 941724-0006
DATE RECEIVED....: 07/13/94
TIME RECEIVED....: 10:30
REMARKS.....: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1490	5	mg/L	403 (3)	07/25/94	KDS
Chloride (Unfilt.)	910	2.5	mg/L	325.2 (1)	07/28/94	DME
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
Sulfate (Unfilt.)	200	20	mg/L	375.2 (1)	07/26/94	DME
Calcium, Total (Ca)	165	0.1	mg/L	6010 (2)	07/26/94	WGL
Magnesium, Total (Mg)	81.3	0.1	mg/L	6010 (2)	07/26/94	WGL
Potassium, Total (K)	11.4	2.5	mg/L	7610 (2)	08/08/94	GEF
Sodium, Total (Na)	730	5	mg/L	6010 (2)	07/26/94	WGL

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED: 07/12/94
TIME SAMPLED: 08:50
WORK DESCRIPTION: 9407120850

LABORATORY I.D.: 941724-0007
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-7

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/25/94	JHT
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	3.2	0.5	ug/L			
4-Bromofluorobenzene (surrogate)	112	0	% Recovery	85-115% Limit		
Time Analyzed	2021	0				

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LABORATORY TESTS RESULTS 08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED: 07/12/94
TIME SAMPLED: 09:20
WORK DESCRIPTION: 9407120920

LABORATORY I.D.: 941724-0008
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME

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LABORATORY TESTS RESULTS 08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED: 07/12/94
TIME SAMPLED: 07:25
WORK DESCRIPTION: 9407120725

LABORATORY I.D.: 941724-0009
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	07/19/94	JHT
Benzene	1800	10	ug/L			
Toluene	12	10	ug/L			
Ethyl benzene	50	10	ug/L			
Xylenes	ND	10	ug/L			
4-Bromofluorobenzene (surrogate)	86	0	% Recovery	85-115% Limit		
Time Analyzed	2251	0				

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LABORATORY TESTS RESULTS 08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC# 8355
DATE SAMPLED: 07/12/94
TIME SAMPLED: 09:50
WORK DESCRIPTION: 9407120950

LABORATORY I.D.: 941724-0010
DATE RECEIVED: 07/13/94
TIME RECEIVED: 10:30
REMARKS: MW-11

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Nitrogen, Nitrate (Unfilt.)	<0.1	0.1	mg/L (as N)	353.2 (1)	07/14/94	DME
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/19/94	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)	104	0	% Recovery	85-115% Limit		
Time Analyzed	1751	0				

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LABORATORY TESTS RESULTS

08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

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

LABORATORY I.D....: 941724-0011
 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)	07/25/94	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)	103	0	% Recovery	85-115% Limit		
Time Analyzed	1906	0				

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LABORATORY TESTS RESULTS 08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

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

LABORATORY I.D.: 941724-0012
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)	07/19/94	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)	100	0	% Recovery	85-115% Limit		
Time Analyzed	2240	0				

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**
CLIENT I.D.....:
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 941724-0013
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)	07/19/94	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)	102	0	% Recovery	85-115% Limit		
Time Analyzed	1156	0				

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LABORATORY TESTS RESULTS
08/09/94

JOB NUMBER: 941724 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**
CLIENT I.D.....:
DATE SAMPLED.....: / /
TIME SAMPLED.....: :
WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 941724-0014
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)	07/18/94	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)	100	0	% Recovery	85-115% Limit		
Time Analyzed	1251	0				

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QUALITY CONTROL REPORT 08/09/94

JOB NUMBER: 941724 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Nitrogen, Nitrate (Unfilt.)				DATE/TIME ANALYZED: 07/14/94 05:55				QC BATCH NUMBER: 301940		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L (as N)				METHOD REFERENCE : 353.2 (1)				TECHNICIAN: DME		
BLANK	ICB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
BLANK	CCB	940714	<0.1							
STANDARD	ICV/LCS	G931013B	1.0			1.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	3.0			3.0	100			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941724-10	1.0					<0.1	1.0	100
SPIKE	MS	941725-10	1.0					<0.1	1.0	100
SPIKE	MS	941738-1	1.5					0.5	1.0	100
DUPLICATE	MD	941724-10	<0.1	<0.1	NC					
DUPLICATE	MD	941725-10	<0.1	<0.1	NC					
DUPLICATE	MD	941738-1	0.5	0.5	0.0					

PARAMETER: Bicarbonate (Unfilt.) DATE/TIME ANALYZED: 07/25/94 21:30 QC BATCH NUMBER: 302729
REPORTING LIMIT/DF: 5 UNITS: mg/L METHOD REFERENCE : 2320 B (3) TECHNICIAN: KDS

BLANK	MB	940725	<5							
DUPLICATE	MD	941725-3	723	710	2					

PARAMETER: Calcium, Total (Ca) DATE/TIME ANALYZED: 07/26/94 11:23 QC BATCH NUMBER: 302852
REPORTING LIMIT/DF: 0.1 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	103			100	103			
STANDARD	CCV	0511K	95.9			100	96			
STANDARD	ISA	0609A	464			500	93			
STANDARD	CCV	0511K	98.7			100	99			
STANDARD	ISA	0609A	434			500	87			
STANDARD	ISB	0710A	423			500	85			
STANDARD	CCV	0511K	95.8			100	96			
STANDARD	CCV	0511K	92.6			100	93			

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QUALITY CONTROL REPORT 08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Calcium, Total (Ca)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302852		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511K	99.7			100	100			
STANDARD	CCV	0511K	94.7			100	95			
STANDARD	ISB	0710A	431			500	86			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	94.3			100	94			
STANDARD	ISA	0609A	438			500	88			
STANDARD	ISB	0710A	421			500	84			
STANDARD	CCV	0511K	96.7			100	97			
STANDARD	LCS	0426G	93.6			100	94			
SPIKE	PDS	941727-002	47.8					0.3	50.0	95
SPIKE	MS	941745-001	258					215	50.0	86
SPIKE	MS	941785-013	49.4					<0.1	50.0	99
DUPLICATE	MD	941785-004	61.3	62.4	2					
DUPLICATE	MD	941745-003	89.0	89.1	0					

PARAMETER: Magnesium, Total (Mg)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302858		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0714C	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0722	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0511K	95.7			100	96			
STANDARD	ICV	0426G	101			100	101			
STANDARD	CCV	0511K	97.1			100	97			
STANDARD	ISA	0609A	488			500	98			
STANDARD	CCV	0511K	98.0			100	98			
STANDARD	ISA	0609A	490			500	98			
STANDARD	ISB	0710A	467			500	93			
STANDARD	CCV	0511K	96.5			100	96			
STANDARD	CCV	0511K	93.9			100	94			
STANDARD	CCV	0511K	97.2			100	97			
STANDARD	CCV	0511K	95.6			100	96			
STANDARD	ISB	0710A	466			500	93			
STANDARD	CCV	0511K	95.2			100	95			
STANDARD	CCV	0511K	95.1			100	95			
STANDARD	ISA	0609A	496			500	99			

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QUALITY CONTROL REPORT 08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Magnesium, Total (Mg)				DATE/TIME ANALYZED: 07/26/94 11:23				QC BATCH NUMBER: 302858		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	474			500	95			
STANDARD	CCV	0511K	99.3			100	99			
STANDARD	LCS	0426G	95.0			100	95			
SPIKE	PDS	941727-002	48.8					<0.1	50.0	98
SPIKE	MS	941745-001	93.7					43.4	50.0	101
SPIKE	MS	941785-013	50.8					<0.1	50.0	102
DUPLICATE	MD	941758-003	95.5	96.5	1					
DUPLICATE	MD	941785-004	14.2	14.3	1					
DUPLICATE	MD	941745-003	22.2	22.2	0					

PARAMETER: Sodium, Total (Na)				DATE/TIME ANALYZED: 07/26/94 15:46				QC BATCH NUMBER: 302862		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0714C	<1.0							
BLANK	MB	0722	<1.0							
BLANK	MB	0722	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	53.1			50.0	106			
STANDARD	CCV	0511K	53.3			50.0	107			
STANDARD	ISA	0609A	556			500	111			
STANDARD	ISB	0710A	524			500	105			
STANDARD	CCV	0511K	46.8			50.0	94			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	45.4			50.0	91			
STANDARD	ICV	0426G	45.3			50.0	91			
STANDARD	CCV	0511K	47.5			50.0	95			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	46.9			50.0	94			
STANDARD	CCV	0511K	52.0			50.0	104			
STANDARD	ISA	0609A	549			500	110			
STANDARD	ISA	0609A	590			500	118			
STANDARD	ISB	0710A	565			500	113			
STANDARD	CCV	0511K	50.9			50.0	102			
STANDARD	ISB	0710A	520			500	104			
STANDARD	LCS	0426G	41.2			50.0	82			
SPIKE	MS	941745-001	155					101	50.0	108
DUPLICATE	MD	941785-004	89.0	89.2	0					

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QUALITY CONTROL REPORT
08/09/94

JOB NUMBER: 941724

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Sodium, Total (Na)				DATE/TIME ANALYZED:07/26/94 15:46				QC BATCH NUMBER:302862		
REPORTING LIMIT/DF: 1.0 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
DUPLICATE	MD	941745-003	60.0	59.7	1					
DUPLICATE	MD	941758-003	102	104	2					
PARAMETER:Sulfate (Unfilt.)				DATE/TIME ANALYZED:07/26/94 10:30				QC BATCH NUMBER:302882		
REPORTING LIMIT/DF: 10 UNITS:mg/L				METHOD REFERENCE :375.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940726	<10							
BLANK	CCB	940726	<10							
BLANK	CCB	940726	<10							
STANDARD	ICV/LCS	G940430A	145			150	97			
STANDARD	CCV	S200	190			200	95			
STANDARD	CCV	S200	188			200	94			
SPIKE	MS	940673-332	50					<10	50	100
SPIKE	MS	941727-2	45					<10	50	90
DUPLICATE	MD	940673-332	<10	<10	NC					
DUPLICATE	MD	941727-2	<10	<10	NC					
PARAMETER:Chloride (Unfilt.)				DATE/TIME ANALYZED:07/28/94 09:30				QC BATCH NUMBER:303340		
REPORTING LIMIT/DF: 0.5 UNITS:mg/L				METHOD REFERENCE :325.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940728	<0.5							
BLANK	CCB	940728	<0.5							
BLANK	CCB	940728	<0.5							
BLANK	CCB	940728	<0.5							
STANDARD	ICV/LCS	G931229C	48.7			50.0	97			
STANDARD	CCV	S160	153			160	96			
STANDARD	CCV	S160	153			160	96			
STANDARD	CCV	S160	153			160	96			
SPIKE	MS	941706-1	166					115	50.0	102
SPIKE	MS	941748-1	47.1					<0.5	50.0	94
SPIKE	MS	941768-5	45.8					1.0	50.0	90
DUPLICATE	MD	941706-1	115	113	2					
DUPLICATE	MD	941748-1	<0.5	<0.5	NC					
DUPLICATE	MD	941768-5	1.0	1.0	0.0					
PARAMETER:Potassium, Total (K)				DATE/TIME ANALYZED:08/08/94 15:00				QC BATCH NUMBER:304167		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L				METHOD REFERENCE :7610 (2)				TECHNICIAN:GEF		
BLANK	ICB	08088	<0.1							
BLANK	CCB	08088	<0.1							
BLANK	CCB	08088	<0.1							
BLANK	MB	0722	<0.1							
BLANK	MB	0713	<0.1							
STANDARD	ICV	0426C	2.0			2.0	100			
STANDARD	CCV	0511F	2.5			2.5	100			
STANDARD	CCV	0511F	2.6			2.5	104			

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Core Laboratories
QUALITY CONTROL REPORT
08/09/94

JOB NUMBER: 941724 **CUSTOMER:** GEOSCIENCE CONSULTANTS, LTD. **ATTN:**

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Potassium, Total (K)				DATE/TIME ANALYZED: 08/08/94 15:00				QC BATCH NUMBER: 304167		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE : 7610 (2)				TECHNICIAN: GEF		

STANDARD	LCS	0426C	2.2			2.0	110			
STANDARD	LCS	0426C	2.2			2.0	110			
SPIKE	PDS	941696-001	2.5					0.1	2.5	96
SPIKE	PDS	941724-006	5.0					2.3	2.5	108
DUPLICATE	MD	941724-006	2.3	2.4	4					
DUPLICATE	MD	941696-001	0.1	0.1	0.0					

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(303) 751-1780

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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:

Subcontract Laboratory

Core Laboratories - Anaheim, CA * AN
Core Laboratories - Casper, WY * CA
Core Laboratories - Corpus Christi, TX * CC
Core Laboratories - Houston, TX * HP

Subcontract Laboratory

Core Laboratories - Lake Charles, LA * LC
Core Laboratories - Long Beach, CA * LB
Other Subcontract Laboratories * XX

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Core Laboratories

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 941626
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 08/08/94


Signature

8-8-94
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR



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
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 8351

Chain of Custody

Date 6/27/94 Page 1 Of 1

Lab Name CORE LABORATORIES		Analysis Request																	
Address 10703 East Bethany Drive																			
Aurora, CO 80014-2696																			
Telephone 303/751-1780																			
Samplers (SIGNATURES)																			
Sample Number	Matrix	Location																	
9406271130	H2O	MW-12																	
9406271220	H2O	MW-1																	
9406271310	H2O	MW-3s																	
9406271430	H2O	MW-3d																	
9406271545	H2O	MW-6d																	
9406271630	H2O	MW-6s																	
9406271715	H2O	MW-9s																	
9406271800	H2O	MW-5																	
9406271845	H2O	MW-4																	
9406271930	H2O	MW-13																	
Project RENE			Sample Receipt			Relinquished By			Relinquished By			Relinquished By							
Project Director TRENT			Total No. of Containers 50			(Signature) DAVID NEE			(Signature)			(Signature)							
Charge Code No. 3034-001			Chain of Custody Seals Y			(Printed Name) DAVID NEE			(Printed Name)			(Printed Name)							
Shipping ID. No.			Rec'd Good Condition/Cold 41			(Company) GCL			(Company)			(Company)							
Via: Fed X			Conforms to Record Y			Received By J. Feigitch			Received By			Received By (Laboratory)							
0214090925			Lab No. 941626			(Signature) J. Feigitch			(Signature)			(Signature)							
Special Instructions/Comments:						(Printed Name) J. Feigitch			(Printed Name)			(Printed Name)							
* NACL Metals						(Date) 6/27/94			(Date)			(Date)							
Cv Co Cu Pb Mn Ni Se Ag Zn						(Company) GORE			(Company)			(Company)							

Distribution: White, Canary-Laboratory • Pink, GCL

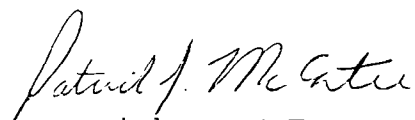
Core Laboratories**Sample Delivery Group Narrative**

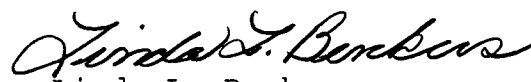
Date: August 1, 1994

Customer: **Geoscience Consultants, LTD.**
Project: **Rexene COC # 8351**
Core Laboratories Project Number: **941626**

On June 30, 1994, Core Laboratories received 10 samples for various analysis. The following information is pertinent to the interpretation of this data package.

Please note that all of the samples were received past the EPA recommended holding time of 48 hours for the analysis of nitrate-nitrogen. Analysis was performed on the day of sample receipt.


Patrick J. McEntee
Laboratory Supervisor


Linda L. Benkers
QA/QC Coordinator

Core Laboratories

SAMPLE DELIVERY GROUP NARRATIVE

August 8, 1994

Customer: Geoscience Consultants, Ltd.
Project: Rexene Project COC #8351
Core Laboratories Project Number: 941626

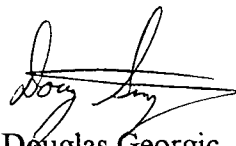
On 6-30-94 Core Laboratories received samples for analysis. The following information is pertinent to the interpretation of the data package.

Organic Analysis:

During the original analysis of PAH semivolatiles on samples 9406271630 and 9406271715, surrogates nitrobenzene and phenol had a high percent recovery. Reanalysis of these samples confirmed the original result. Sample 9406271800 had high phenol surrogate recovery in both the original and reanalysis runs. All three of these samples had low internal standard recoveries for both the original and reanalysis runs. It is believed that the sample matrix interfered with internal standard recovery with biased the surrogate percent recoveries high.



Linda L. Benkers
QA/QC Coordinator



Douglas Georgic
Laboratory Supervisor

Core Laboratories

LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 11:30

WORK DESCRIPTION: 9406271130

LABORATORY I.D.: 941626-0001

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-12

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	672	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	7200	25	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.2	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	2350	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.02	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	910	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	3.89	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	380	20	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	5.90	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	76	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	3300	20	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 11:30

WORK DESCRIPTION....: 9406271130

LABORATORY I.D....: 941626-0001

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-12

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	89	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	82	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Time Analyzed	1351	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	82	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	81	0	% Recovery	10-94% Limit		

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Core Laboratories

LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 11:30

WORK DESCRIPTION: 9406271130

LABORATORY I.D.: 941626-0001

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-12

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	69	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	94	0	% Recovery	10-123% Limit		
Time Analyzed	1351	0				
Date Extracted	07/01/94	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.: 06/27/94

TIME SAMPLED.: 12:20

WORK DESCRIPTION.: 9406271220

LABORATORY I.D.: 941626-0002

DATE RECEIVED.: 06/30/94

TIME RECEIVED.: 09:45

REMARKS.: MW-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	488	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	39.3	0.5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	150	10	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	1.20	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.18	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	106	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.96	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	31.0	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	1.42	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	13.7	0.1	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	105	5	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.: 06/27/94

TIME SAMPLED.: 12:20

WORK DESCRIPTION.: 9406271220

LABORATORY I.D.: 941626-0002

DATE RECEIVED.: 06/30/94

TIME RECEIVED.: 09:45

REMARKS.: MW-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	75	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	64	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	81	0	% Recovery	33-141% Limit		
Time Analyzed	1454	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	64	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	81	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	74	0	% Recovery	10-94% Limit		

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Aurora, CO 80014
(303) 751-1780



Core Laboratories

LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 12:20

WORK DESCRIPTION: 9406271220

LABORATORY I.D.: 941626-0002

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-1

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	60	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	84	0	% Recovery	10-123% Limit		
Time Analyzed	1454	0				
Date Extracted	07/01/94	0				

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Core Laboratories

LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8351

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 13:10

WORK DESCRIPTION....: 9406271310

LABORATORY I.D....: 941626-0003

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	756	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	2630	25	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	0.4	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	1010	250	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	2.32	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.13	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	157	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	3.91	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	75.9	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	1.12	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	28	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	1040	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

LABORATORY I.D.: 941626-0003

DATE SAMPLED.: 06/27/94

DATE RECEIVED.: 06/30/94

TIME SAMPLED.: 13:10

TIME RECEIVED.: 09:45

WORK DESCRIPTION.: 9406271310

REMARKS.: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	0.09	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	83	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	78	0	% Recovery	33-141% Limit		
Time Analyzed	1556	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	83	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	78	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	75	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC #8351
DATE SAMPLED: 06/27/94
TIME SAMPLED: 13:10
WORK DESCRIPTION: 9406271310

LABORATORY I.D.: 941626-0003
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-3S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	61	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	87	0	% Recovery	10-123% Limit		
Time Analyzed	1556	0				
Date Extracted	07/01/94	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626
CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.
ATTN:
CLIENT I.D.: REXENE COC #8351
DATE SAMPLED: 06/27/94
TIME SAMPLED: 14:30
WORK DESCRIPTION: 9406271430
LABORATORY I.D.: 941626-0004
DATE RECEIVED: 06/30/94
TIME RECEIVED: 09:45
REMARKS: MW-3D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	473	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	6560	25	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	0.1	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	2550	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.23	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.04	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	460	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	2.41	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	220	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	3.25	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	61	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	2760	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8351
DATE SAMPLED.....: 06/27/94
TIME SAMPLED.....: 15:45
WORK DESCRIPTION....: 9406271545

LABORATORY I.D....: 941626-0005
DATE RECEIVED.....: 06/30/94
TIME RECEIVED.....: 09:45
REMARKS.....: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	739	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	3990	25	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	10	1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	2420	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.06	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.03	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	530	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.30	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	188	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	4.20	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	62	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	3100	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 15:45

WORK DESCRIPTION: 9406271545

LABORATORY I.D.: 941626-0005

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	88	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	95	0	% Recovery	33-141% Limit		
Time Analyzed	1658	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	88	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	74	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	95	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	81	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 15:45

WORK DESCRIPTION: 9406271545

LABORATORY I.D.: 941626-0005

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-6D

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	72	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	96	0	% Recovery	10-123% Limit		
Time Analyzed	1658	0				
Date Extracted	07/01/94	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8351

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 16:30

WORK DESCRIPTION....: 9406271630

LABORATORY I.D....: 941626-0006

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	2020	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	2090	25	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	0.4	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	84	10	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.08	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	0.08	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	1.16	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	259	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	4.78	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	101	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	1.08	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	40	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	1120	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 16:30

WORK DESCRIPTION....: 9406271630

LABORATORY I.D....: 941626-0006

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	83	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	84	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	48	0	% Recovery	33-141% Limit		
Time Analyzed	1801	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	83	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	84	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	48	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	52	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

LABORATORY I.D.: 941626-0006

DATE SAMPLED.: 06/27/94

DATE RECEIVED.: 06/30/94

TIME SAMPLED.: 16:30

TIME RECEIVED.: 09:45

WORK DESCRIPTION.: 9406271630

REMARKS.: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	80	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	106	0	% Recovery	10-123% Limit		
Time Analyzed	1801	0				
Date Extracted	07/01/94	0				
Semi-Volatile Organic - Surrogates		*5		8270(2)/625(6)	07/15/94	DMJ
Nitrobenzene-d5 (Surrogate)	118 *	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	82	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	46	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	104 *	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	81	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	81	0	% Recovery	10-123% Limit		
Date Extracted	07/01/94	0				
Time Analyzed	1752	0				

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Core Laboratories

LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 17:15

WORK DESCRIPTION: 9406271715

LABORATORY I.D.: 941626-0007

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	820	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	1350	5	mg/L	325.2 (1)	07/20/94	DME
Nitrogen, Nitrate (Unfilt.)	1.4	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	2010	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.04	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	245	1.0	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	4.80	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	87.3	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	3.20	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	27	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	1090	20	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.: 06/27/94

TIME SAMPLED.: 17:15

WORK DESCRIPTION.: 9406271715

LABORATORY I.D.: 941626-0007

DATE RECEIVED.: 06/30/94

TIME RECEIVED.: 09:45

REMARKS.: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	98	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	80	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Time Analyzed	1903	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	80	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	84	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	90	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 17:15

WORK DESCRIPTION: 9406271715

LABORATORY I.D.: 941626-0007

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-9S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	75	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	111	0	% Recovery	10-123% Limit		
Time Analyzed	1903	0				
Date Extracted	07/01/94	0				
Semi-Volatile Organic - Surrogates		*1		8270(2)/625(6)	07/15/94	DMJ
Nitrobenzene-d5 (Surrogate)	119 *	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	81	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	121	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	99 *	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	85	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	84	0	% Recovery	10-123% Limit		
Date Extracted	07/01/94	0				
Time Analyzed	1547	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 18:00

WORK DESCRIPTION: 9406271800

LABORATORY I.D.: 941626-0008

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1710	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	5450	25	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	0.3	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	962	150	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.25	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	500	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	0.06	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	160	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	58	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	2230	20	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.....: REXENE COC #8351

DATE SAMPLED.....: 06/27/94

TIME SAMPLED.....: 18:00

WORK DESCRIPTION....: 9406271800

LABORATORY I.D....: 941626-0008

DATE RECEIVED.....: 06/30/94

TIME RECEIVED.....: 09:45

REMARKS.....: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/14/94	DMJ
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	78	10	ug/L			
2-Methylnaphthalene	12	10	ug/L			
Naphthalene	27	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	85	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	70	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	85	0	% Recovery	33-141% Limit		
Time Analyzed	2005	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	70	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	85	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	58	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 18:00

WORK DESCRIPTION: 9406271800

LABORATORY I.D.: 941626-0008

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-5

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	91	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	54	0	% Recovery	10-123% Limit		
Time Analyzed	2005	0				
Date Extracted	07/01/94	0				
Semi-Volatile Organic - Surrogates		*5		8270(2)/625(6)	07/15/94	DMJ
Nitrobenzene-d5 (Surrogate)	107	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	67	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	73	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	98 *	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	80	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	67	0	% Recovery	10-123% Limit		
Date Extracted	07/01/94	0				
Time Analyzed	1854	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 18:45

WORK DESCRIPTION: 9406271845

LABORATORY I.D.: 941626-0009

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	1350	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	4300	25	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	2.8	0.1	mg/L (as N)	353.2 (1)	07/05/94	DME
Sulfate (Unfilt.)	932	100	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	0.20	0.01	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.005	0.005	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	430	20	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.78	0.03	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	217	0.5	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	3.21	0.01	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.04	0.04	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	66	5	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	2050	20	mg/L	6010 (2)	07/19/94	WGL

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 18:45

WORK DESCRIPTION: 9406271845

LABORATORY I.D.: 941626-0009

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	83	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	87	0	% Recovery	10-123% Limit		
Time Analyzed	1302	0				
Date Extracted	07/01/94	0				

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 19:30

WORK DESCRIPTION: 9406271930

LABORATORY I.D.: 941626-0010

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-13

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Bicarbonate (Unfilt.)	592	5	mg/L	2320 B (3)	07/11/94	KDS
Chloride (Unfilt.)	13000	50	mg/L	325.2 (1)	07/22/94	DME
Nitrogen, Nitrate (Unfilt.)	0.2	0.1	mg/L (as N)	353.2 (1)	06/30/94	DME
Sulfate (Unfilt.)	4580	1000	mg/L	375.2 (1)	07/22/94	DME
Aluminum, Diss. (Al)	0.5	0.2	mg/L	6010 (2)	07/20/94	WGL
Arsenic, Diss. (As)	<0.2	0.2	mg/L	6010 (2)	07/20/94	WGL
Barium, Diss. (Ba)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Cadmium, Diss. (Cd)	<0.03	0.03	mg/L	6010 (2)	07/20/94	WGL
Calcium, Total (Ca)	975	2	mg/L	6010 (2)	07/19/94	WGL
Chromium, Diss. (Cr)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Cobalt, Diss. (Co)	<0.1	0.1	mg/L	6010 (2)	07/20/94	WGL
Copper, Diss. (Cu)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Iron, Diss. (Fe)	1.9	0.1	mg/L	6010 (2)	07/20/94	WGL
Lead, Diss. (Pb)	<0.2	0.2	mg/L	6010 (2)	07/20/94	WGL
Mercury, Total (Hg)	<0.0002	0.0002	mg/L	7470 (2)	07/20/94	LMT
Magnesium, Total (Mg)	585	2	mg/L	6010 (2)	07/19/94	WGL
Manganese, Diss. (Mn)	13.9	0.05	mg/L	6010 (2)	07/20/94	WGL
Molybdenum, Diss. (Mo)	<0.2	0.2	mg/L	6010 (2)	07/20/94	WGL
Nickel, Diss. (Ni)	<0.2	0.2	mg/L	6010 (2)	07/20/94	WGL
Potassium, Total (K)	174	20	mg/L	6010 (2)	07/19/94	WGL
Selenium, Diss. (Se)	<0.5	0.5	mg/L	6010 (2)	07/20/94	WGL
Silver, Diss. (Ag)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
Sodium, Total (Na)	6550	20	mg/L	6010 (2)	07/19/94	WGL

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED.: 06/27/94

TIME SAMPLED.: 19:30

WORK DESCRIPTION.: 9406271930

LABORATORY I.D.: 941626-0010

DATE RECEIVED.: 06/30/94

TIME RECEIVED.: 09:45

REMARKS.: MW-13

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.05	0.05	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*1		8270 (2)	07/25/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	77	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	89	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Time Analyzed	1055	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/25/94	DMJ
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)	77	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	89	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	69	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	55	0	% Recovery	10-94% Limit		

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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 19:30

WORK DESCRIPTION: 9406271930

LABORATORY I.D.: 941626-0010

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-13

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2-Fluorophenol (Surrogate)	34	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	50	0	% Recovery	10-123% Limit		
Time Analyzed	1055	0				
Date Extracted	07/01/94	0				

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Core Laboratories
LABORATORY TESTS RESULTS
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.:

DATE SAMPLED: / /

TIME SAMPLED:

WORK DESCRIPTION: METHOD BLANK

LABORATORY I.D.: 941626-0011

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
610 - PAH'S BY 8270		*1		8270 (2)	07/25/94	DMJ
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			
Nitrobenzene-d5 (Surrogate)	86	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	76	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	101	0	% Recovery	33-141% Limit		
Time Analyzed	1005	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*1		8270 (2)	07/14/94	DMJ
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)	86	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	76	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	101	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	78	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	68	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	94	0	% Recovery	10-123% Limit		

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Core Laboratories
QUALITY CONTROL REPORT
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Nitrogen, Nitrate (Unfilt.)				DATE/TIME ANALYZED:06/30/94 14:30				QC BATCH NUMBER:300779		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L (as N)				METHOD REFERENCE :353.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940630	<0.1							
BLANK	CCB	940630	<0.1							
BLANK	CCB	940630	<0.1							
STANDARD	ICV/LCS	G931013B	1.0			1.0	100			
STANDARD	CCV	S3.0	3.1			3.0	103			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941624-1	1.0					<0.1	1.0	100
SPIKE	MS	941634-1	2.3					1.4	1.0	90
DUPLICATE	MD	941624-1	<0.1	<0.1	NC					
DUPLICATE	MD	941634-1	1.4	1.4	0					
PARAMETER:Nitrogen, Nitrate (Unfilt.)				DATE/TIME ANALYZED:07/05/94 10:00				QC BATCH NUMBER:300886		
REPORTING LIMIT/DF: 0.1 UNITS:mg/L (as N)				METHOD REFERENCE :353.2 (1)				TECHNICIAN:DME		
BLANK	ICB	940705	<0.1							
BLANK	CCB	940705	<0.1							
STANDARD	ICV/LCS	G931013B	1.0			1.0	100			
STANDARD	CCV	S3.0	2.8			3.0	93			
SPIKE	MS	941635-2	1.8					0.9	1.0	90
DUPLICATE	MD	941635-2	0.9	0.9	0					
PARAMETER:Bicarbonate (Unfilt.)				DATE/TIME ANALYZED:07/11/94 10:00				QC BATCH NUMBER:301510		
REPORTING LIMIT/DF: 5 UNITS:mg/L				METHOD REFERENCE :2320 B (3)				TECHNICIAN:KDS		
BLANK	MB	940711	<5							
DUPLICATE	MD	941626-10	592	590	0					
DUPLICATE	MD	941627-6	1100	1080	2					
PARAMETER:Calcium, Total (Ca)				DATE/TIME ANALYZED:07/19/94 11:21				QC BATCH NUMBER:302166		
REPORTING LIMIT/DF: 1.0 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	99.2			100	99			
STANDARD	ISA	0609A	466			500	93			

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Calcium, Total (Ca)				DATE/TIME ANALYZED: 07/19/94 11:21				QC BATCH NUMBER: 302166		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	439			500	88			
STANDARD	CCV	0511K	98.6			100	99			
STANDARD	CCV	0511K	100			100	100			
STANDARD	CCV	0511K	93.8			100	94			
STANDARD	ICV	0426G	103			100	103			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	LCS	0426D	104			100	104			
STANDARD	LCS	0426D	102			100	102			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	CCV	0511K	93.3			100	93			
STANDARD	ISA	0609A	418			500	84			
STANDARD	ISB	0710A	406			500	81			
STANDARD	CCV	0511K	93.8			100	94			
SPIKE	MS	941626-002	150					106	50.0	88
SPIKE	PDS	941574-003	86.8					40.4	50.0	93
SPIKE	PDS	941765-001	64.8					15.4	50.0	99
DUPLICATE	MD	941626-001	18.2	17.9	2					
DUPLICATE	MD	941765-001	15.4	15.0	3					
DUPLICATE	MD	941574-001	13.5	13.7	1					

PARAMETER: Potassium, Total (K)
REPORTING LIMIT/DF: 0.1 UNITS: mg/L

DATE/TIME ANALYZED: 07/19/94 11:21
METHOD REFERENCE : 6010 (2)

QC BATCH NUMBER: 302171
TECHNICIAN: WGL

BLANK	ICB	0714C	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	MB	0713	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
BLANK	CCB	0714C	<0.1							
STANDARD	CCV	0712E	9.4			10.0	94			
STANDARD	ICV	0314B	9.2			10.0	92			
STANDARD	CCV	0712E	10.8			10.0	108			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	CCV	0712E	9.1			10.0	91			
STANDARD	CCV	0712E	10.0			10.0	100			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	CCV	0712E	10.3			10.0	103			
STANDARD	CCV	0712E	9.2			10.0	92			
STANDARD	ISB	0710A	9.7			10.0	97			

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Potassium, Total (K)				DATE/TIME ANALYZED: 07/19/94 11:21				QC BATCH NUMBER: 302171		
REPORTING LIMIT/DF: 0.1 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	8.2			10.0	82			
SPIKE	MS	941626-002	70.3					13.7	50.0	113
DUPLICATE	MD	941574-001	0.7	0.7	0					

PARAMETER: Potassium, Total (K) DATE/TIME ANALYZED: 07/19/94 13:20 QC BATCH NUMBER: 302172
 REPORTING LIMIT/DF: 1.0 UNITS: mg/L METHOD REFERENCE :6010 (2) TECHNICIAN: WGL

BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	CCV	0511K	103			100	103			
STANDARD	ICV	0426G	91.6			100	92			
STANDARD	CCV	0511K	103			100	103			
STANDARD	LCS	0426D	49.5			50.0	99			
STANDARD	LCS	0426D	49.8			50.0	100			
STANDARD	CCV	0511K	107			100	107			
STANDARD	CCV	0511K	99.7			100	100			
STANDARD	CCV	0511K	106			100	106			
STANDARD	CCV	0511K	91.3			100	91			
STANDARD	CCV	0511K	108			100	108			
STANDARD	CCV	0511K	91.1			100	91			
SPIKE	MS	941626-002	70.3					13.7	50.0	113
DUPLICATE	MD	941626-001	76.0	75.5	1					

PARAMETER: Magnesium, Total (Mg) DATE/TIME ANALYZED: 07/19/94 13:23 QC BATCH NUMBER: 302173
 REPORTING LIMIT/DF: 0.5 UNITS: mg/L METHOD REFERENCE :6010 (2) TECHNICIAN: WGL

BLANK	ICB	0714C	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	MB	0713	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Magnesium, Total (Mg)				DATE/TIME ANALYZED: 07/19/94 13:23				QC BATCH NUMBER: 302173		
REPORTING LIMIT/DF: 0.5 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
BLANK	CCB	0714C	<0.5							
STANDARD	CCV	0511K	96.8			100	97			
STANDARD	ISA	0609A	495			500	99			
STANDARD	ISB	0710A	467			500	93			
STANDARD	CCV	0511K	98.4			100	98			
STANDARD	CCV	0511K	97.6			100	98			
STANDARD	CCV	0511K	101			100	101			
STANDARD	ICV	0426G	100			100	100			
STANDARD	CCV	0511K	99.5			100	100			
STANDARD	LCS	0426D	101			100	101			
STANDARD	LCS	0426D	98.8			100	99			
STANDARD	CCV	0511K	97.1			100	97			
STANDARD	CCV	0511K	97.6			100	98			
STANDARD	ISA	0609A	498			500	100			
STANDARD	ISB	0710A	478			500	96			
STANDARD	CCV	0511K	99.1			100	99			
SPIKE	MS	941626-002	82.7					31.0	50.0	103
SPIKE	PDS	941574-003	51.6					1.3	50.0	101
SPIKE	PDS	941765-001	50.4					<0.5	50.0	101
DUPLICATE	MD	941765-001	<0.5	<0.5	NC					
DUPLICATE	MD	941626-001	7.5	7.5	0					

PARAMETER: Sodium, Total (Na)				DATE/TIME ANALYZED: 07/19/94 11:16				QC BATCH NUMBER: 302175		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0714C	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	MB	0713	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
BLANK	CCB	0714C	<1.0							
STANDARD	ISB	0710A	543			500	109			
STANDARD	CCV	0511K	48.2			50.0	96			
STANDARD	CCV	0511K	50.1			50.0	100			
STANDARD	CCV	0511K	53.2			50.0	106			
STANDARD	ICV	0426G	46.9			50.0	94			

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Core Laboratories
QUALITY CONTROL REPORT
08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Sodium, Total (Na)				DATE/TIME ANALYZED: 07/19/94 11:16				QC BATCH NUMBER: 302175		
REPORTING LIMIT/DF: 1.0 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511K	53.4			50.0	107			
STANDARD	LCS	0426D	94.5			100	94			
STANDARD	LCS	0426D	93.4			100	93			
STANDARD	CCV	0511K	51.1			50.0	102			
STANDARD	CCV	0511K	50.5			50.0	101			
STANDARD	ISA	0609A	564			500	113			
STANDARD	ISB	0710A	531			500	106			
STANDARD	CCV	0511K	47.1			50.0	94			
STANDARD	CCV	0511K	49.2			50.0	98			
STANDARD	ISA	0609A	581			500	116			
SPIKE	PDS	941574-003	78.6					33.3	50.0	91
SPIKE	PDS	941765-001	81.4					33.4	50.0	96
SPIKE	MS	941574-003	36.3					33.3	5.0	60
SPIKE	MS	941626-002	14.8					10.5	5.0	86
DUPLICATE	MD	941626-001	66.1	66.1	0					
DUPLICATE	MD	941765-001	33.4	32.0	4					

PARAMETER: Chloride (Unfilt.)				DATE/TIME ANALYZED: 07/20/94 10:00				QC BATCH NUMBER: 302260		
REPORTING LIMIT/DF: 0.5 UNITS: mg/L				METHOD REFERENCE : 325.2 (1)				TECHNICIAN: DME		
BLANK	ICB	940720	<0.5							
BLANK	CCB	940720	<0.5							
BLANK	CCB	940720	<0.5							
BLANK	CCB	940720	<0.5							
STANDARD	ICV/LCS	G931229C	50.9			50.0	102			
STANDARD	CCV	S160	162			160	101			
STANDARD	CCV	S160	164			160	102			
STANDARD	CCV	S160	160			160	100			
SPIKE	MS	941590-1	102					52.7	50.0	99
SPIKE	MS	941629-3	57.7					5.5	50.0	104
SPIKE	MS	941629-21	56.3					5.1	50.0	102
DUPLICATE	MD	941590-1	52.7	53.0	1					
DUPLICATE	MD	941629-3	5.4	6.2	14					
DUPLICATE	MD	941629-21	5.1	5.0	2					

PARAMETER: Silver, Diss. (Ag)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302289		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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Core Laboratories

QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Silver, Diss. (Ag)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302289		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0223C	1.95			2.00	98			
STANDARD	CCV	0511J	2.43			2.50	97			
STANDARD	CCV	0511J	2.51			2.50	100			
STANDARD	CCV	0511J	2.48			2.50	99			
STANDARD	ISB	0710A	0.99			1.00	99			
STANDARD	CCV	0511J	2.30			2.50	92			
STANDARD	CCV	0511J	2.45			2.50	98			
STANDARD	CCV	0511J	2.74			2.50	110			
STANDARD	CCV	0511J	2.52			2.50	101			
STANDARD	ISB	0710A	1.17			1.00	117			
STANDARD	CCV	0511J	2.43			2.50	97			
STANDARD	CCV	0511J	2.42			2.50	97			
SPIKE	PDS	941626-002	0.89					<0.01	1.00	89
SPIKE	PDS	941598-008	0.89					0.05	1.00	84
SPIKE	PDS	941627-001	0.95					<0.01	1.00	95
DUPLICATE	MD	941626-002	<0.01	<0.01	NC					
DUPLICATE	MD	941627-001	<0.01	<0.01	NC					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Aluminum, Diss. (Al)				DATE/TIME ANALYZED: 07/20/94 14:51				QC BATCH NUMBER: 302290		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	CCV	0511G	9.43			10.0	94			
STANDARD	CCV	0511G	9.54			10.0	95			
STANDARD	CCV	0511G	9.46			10.0	95			
STANDARD	ICV	0223C	2.04			2.00	102			
STANDARD	CCV	0511G	9.83			10.0	98			
STANDARD	CCV	0511G	9.74			10.0	97			
STANDARD	CCV	0511G	9.32			10.0	93			
STANDARD	ISA	0609A	439			500	88			
STANDARD	CCV	0511G	9.93			10.0	99			
STANDARD	CCV	0511G	9.62			10.0	96			
STANDARD	ISA	0609A	460			500	92			
STANDARD	ISB	0710A	442			500	88			

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Aluminum, Diss. (Al)				DATE/TIME ANALYZED: 07/20/94 14:51				QC BATCH NUMBER: 302290		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511G	9.87			10.0	99			
STANDARD	ISB	0710A	422			500	84			
SPIKE	PDS	941626-002	3.10					1.20	2.00	95
SPIKE	PDS	941598-008	2.13					<0.05	2.00	106
SPIKE	PDS	941627-001	2.25					0.12	2.00	106
DUPLICATE	MD	941626-002	1.20	1.10	9					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	0.12	0.07	0.05					

PARAMETER: Arsenic, Diss. (As)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302291		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	2.19			2.00	110			
STANDARD	CCV	0511G	2.64			2.50	106			
STANDARD	CCV	0511G	2.68			2.50	107			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.64			2.50	106			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.66			2.50	106			
STANDARD	ISB	0710A	1.02			1.00	102			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.65			2.50	106			
SPIKE	PDS	941626-002	1.06					<0.05	1.00	106
SPIKE	PDS	941598-008	1.04					<0.05	1.00	104
SPIKE	PDS	941627-001	1.12					0.08	1.00	104
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	0.08	0.09	0.01					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER: Barium, Diss. (Ba)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302292		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Barium, Diss. (Ba)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302292		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0223C	2.19			2.00	110			
STANDARD	CCV	0511G	5.23			5.00	105			
STANDARD	CCV	0511G	5.38			5.00	108			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	ISB	0710A	0.52			0.50	104			
STANDARD	CCV	0511G	5.28			5.00	106			
STANDARD	CCV	0511G	5.33			5.00	107			
STANDARD	CCV	0511G	5.37			5.00	107			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	ISB	0710A	0.55			0.50	110			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	CCV	0511G	5.29			5.00	106			
SPIKE	PDS	941626-002	1.26					0.18	1.00	108
SPIKE	PDS	941598-008	1.31					0.20	1.00	111
SPIKE	PDS	941627-001	1.75					0.70	1.00	105
DUPLICATE	MD	941626-002	0.18	0.18	0					
DUPLICATE	MD	941627-001	0.70	0.70	0					
DUPLICATE	MD	941598-007	0.14	0.14	0					

PARAMETER: Cadmium, Diss. (Cd)
REPORTING LIMIT/DF: 0.005 UNITS: mg/L

DATE/TIME ANALYZED: 07/20/94 13:29
METHOD REFERENCE : 6010 (2)

QC BATCH NUMBER: 302294
TECHNICIAN: WGL

BLANK	ICB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
BLANK	CCB	0615D	<0.005							
STANDARD	ICV	0524F	2.09			2.00	104			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.09			1.00	109			
STANDARD	ISB	0710A	0.878			1.00	88			
STANDARD	CCV	0511G	1.02			1.00	102			

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QUALITY CONTROL REPORT
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JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Cadmium, Diss. (Cd)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302294		
REPORTING LIMIT/DF: 0.005 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	ISB	0710A	0.939			1.00	94			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	CCV	0511G	1.05			1.00	105			
SPIKE	PDS	941626-002	0.998					<0.005	1.00	100
SPIKE	PDS	941598-008	1.01					<0.005	1.00	101
SPIKE	PDS	941627-001	0.825					<0.005	1.00	82
DUPLICATE	MD	941626-002	<0.005	<0.005	NC					
DUPLICATE	MD	941627-001	<0.005	<0.005	NC					
DUPLICATE	MD	941598-007	<0.005	<0.005	NC					

PARAMETER: Cobalt, Diss. (Co)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302295		
REPORTING LIMIT/DF: 0.03 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
STANDARD	ICV	0524F	2.11			2.00	106			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.45			0.50	90			
STANDARD	CCV	0511G	2.46			2.50	98			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.53			2.50	101			
STANDARD	CCV	0511G	2.56			2.50	102			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	2.53			2.50	101			
STANDARD	CCV	0511G	2.50			2.50	100			
SPIKE	PDS	941626-002	0.98					<0.03	1.00	98
SPIKE	PDS	941598-008	0.98					<0.03	1.00	98
SPIKE	PDS	941627-001	0.86					<0.03	1.00	86
DUPLICATE	MD	941626-002	<0.03	<0.03	NC					
DUPLICATE	MD	941627-001	<0.03	<0.03	NC					
DUPLICATE	MD	941598-007	<0.03	<0.03	NC					

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Chromium, Diss. (Cr)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302296		
REPORTING LIMIT/DF: 0.01 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	2.54			2.50	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.60			2.50	104			
STANDARD	ISB	0710A	0.46			0.50	92			
STANDARD	CCV	0511G	2.44			2.50	98			
STANDARD	CCV	0511G	2.55			2.50	102			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.51			2.50	100			
SPIKE	PDS	941626-002	0.96					<0.01	1.00	96
SPIKE	PDS	941598-008	0.98					<0.01	1.00	98
SPIKE	PDS	941627-001	0.83					<0.01	1.00	83
DUPLICATE	MD	941626-002	<0.01	<0.01	NC					
DUPLICATE	MD	941627-001	<0.01	<0.01	NC					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER:Copper, Diss. (Cu)
REPORTING LIMIT/DF: 0.01 UNITS:mg/L

DATE/TIME ANALYZED:07/20/94 13:29
METHOD REFERENCE :6010 (2)

QC BATCH NUMBER:302297
TECHNICIAN:WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.05			2.00	102			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.63			2.50	105			

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ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Copper, Diss. (Cu)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302297		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
STANDARD	ISB	0710A	0.52			0.50	104			
STANDARD	CCV	0511G	2.65			2.50	106			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.70			2.50	108			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	ISB	0710A	0.57			0.50	114			
STANDARD	CCV	0511G	2.69			2.50	108			
STANDARD	CCV	0511G	2.60			2.50	104			
SPIKE	PDS	941626-002	1.04					0.01	1.00	103
SPIKE	PDS	941598-008	1.02					<0.01	1.00	102
SPIKE	PDS	941627-001	1.09					0.01	1.00	108
DUPLICATE	MD	941626-002	0.01	<0.01	0.01					
DUPLICATE	MD	941627-001	0.01	<0.01	0.01					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Iron, Diss. (Fe) DATE/TIME ANALYZED: 07/20/94 14:51 QC BATCH NUMBER: 302298
 REPORTING LIMIT/DF: 0.03 UNITS: mg/L METHOD REFERENCE : 6010 (2) TECHNICIAN: WGL

BLANK	ICB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
BLANK	CCB	0615D	<0.03							
STANDARD	CCV	0511G	5.09			5.00	102			
STANDARD	CCV	0511G	5.14			5.00	103			
STANDARD	CCV	0511G	5.18			5.00	104			
STANDARD	ICV	0524F	1.88			2.00	94			
STANDARD	CCV	0511G	5.31			5.00	106			
STANDARD	CCV	0511G	5.22			5.00	104			
STANDARD	CCV	0511G	4.97			5.00	99			
STANDARD	ISA	0609A	193			200	96			
STANDARD	CCV	0511G	5.09			5.00	102			
STANDARD	CCV	0511G	5.18			5.00	104			
STANDARD	ISA	0609A	193			200	96			
STANDARD	ISB	0710A	186			200	93			
STANDARD	CCV	0511G	5.13			5.00	103			
STANDARD	ISB	0710A	185			200	92			
STANDARD	CCV	0511G	5.12			5.00	102			

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Iron, Diss. (Fe)				DATE/TIME ANALYZED: 07/20/94 14:51				QC BATCH NUMBER: 302298		
REPORTING LIMIT/DF: 0.03 UNITS: mg/L				METHOD REFERENCE: :6010 (2)				TECHNICIAN: WGL		
STANDARD	CCV	0511G	5.35			5.00	107			
STANDARD	CCV	0511G	5.15			5.00	103			
SPIKE	PDS	941626-002	3.74					1.96	2.00	89
SPIKE	PDS	941598-008	2.08					<0.03	2.00	104
SPIKE	PDS	941627-001	7.40					5.79	2.00	81
SPIKE	PDS	940673-289	2.25					<0.03	2.00	112
SPIKE	PDS	940673-299	2.23					<0.03	2.00	112
SPIKE	PDS	940673-309	2.32					<0.03	2.00	116
DUPLICATE	MD	941626-002	1.96	1.80	9					
DUPLICATE	MD	941598-007	<0.03	<0.03	NC					
DUPLICATE	MD	941627-001	5.79	5.70	2					
DUPLICATE	MD	940673-289	<0.03	<0.03	NC					
DUPLICATE	MD	940673-299	<0.03	<0.03	NC					
DUPLICATE	MD	940673-309	<0.03	<0.03	NC					
PARAMETER: Manganese, Diss. (Mn)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302302		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE: :6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.15			2.00	108			
STANDARD	CCV	0511G	5.30			5.00	106			
STANDARD	CCV	0511G	5.40			5.00	108			
STANDARD	CCV	0511G	5.41			5.00	108			
STANDARD	ISB	0710A	0.47			0.50	94			
STANDARD	CCV	0511G	5.11			5.00	102			
STANDARD	CCV	0511G	5.34			5.00	107			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	CCV	0511G	5.31			5.00	106			
STANDARD	ISB	0710A	0.50			0.50	100			
STANDARD	CCV	0511G	5.27			5.00	105			
STANDARD	CCV	0511G	5.25			5.00	105			
SPIKE	PDS	941626-002	2.42					1.42	1.00	100
SPIKE	PDS	941598-008	1.44					0.43	1.00	101
SPIKE	PDS	941627-001	1.14					0.23	1.00	91
DUPLICATE	MD	941626-002	1.42	1.41	1					
DUPLICATE	MD	941627-001	0.23	0.23	0					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Manganese, Diss. (Mn)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302302		
REPORTING LIMIT/DF: 0.01 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
PARAMETER:Molybdenum, Diss. (Mo)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302303		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		

BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	1.99			2.00	100			
STANDARD	CCV	0511G	2.47			2.50	99			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	CCV	0511G	2.51			2.50	100			
STANDARD	ISB	0710A	0.89			1.00	89			
STANDARD	CCV	0511G	2.43			2.50	97			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.49			2.50	100			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.50			2.50	100			
STANDARD	CCV	0511G	2.46			2.50	98			
SPIKE	PDS	941626-002	0.94					<0.05	1.00	94
SPIKE	PDS	941598-008	0.96					<0.05	1.00	96
SPIKE	PDS	941627-001	0.85					<0.05	1.00	85
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	<0.05	<0.05	NC					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER:Nickel, Diss. (Ni)	DATE/TIME ANALYZED:07/20/94 13:29	QC BATCH NUMBER:302305
REPORTING LIMIT/DF: 0.04 UNITS:mg/L	METHOD REFERENCE :6010 (2)	TECHNICIAN:WGL

BLANK	ICB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							
BLANK	CCB	0615D	<0.04							

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JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Nickel, Diss. (Ni)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302305		
REPORTING LIMIT/DF: 0.04 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	2.61			2.50	104			
STANDARD	CCV	0511G	2.63			2.50	105			
STANDARD	CCV	0511G	2.66			2.50	106			
STANDARD	ISB	0710A	0.83			1.00	83			
STANDARD	CCV	0511G	2.52			2.50	101			
STANDARD	CCV	0511G	2.62			2.50	105			
STANDARD	CCV	0511G	2.57			2.50	103			
STANDARD	CCV	0511G	2.58			2.50	103			
STANDARD	ISB	0710A	0.88			1.00	88			
STANDARD	CCV	0511G	2.59			2.50	104			
STANDARD	CCV	0511G	2.58			2.50	103			
SPIKE	PDS	941626-002	0.96					<0.04	1.00	96
SPIKE	PDS	941598-008	0.97					<0.04	1.00	97
SPIKE	PDS	941627-001	0.80					<0.04	1.00	80
DUPLICATE	MD	941626-002	<0.04	<0.04	NC					
DUPLICATE	MD	941627-001	<0.04	<0.04	NC					
DUPLICATE	MD	941598-007	<0.04	<0.04	NC					

PARAMETER: Lead, Diss. (Pb)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302306		
REPORTING LIMIT/DF: 0.05 UNITS: mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN: WGL		
BLANK	ICB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
BLANK	CCB	0615D	<0.05							
STANDARD	ICV	0524F	2.10			2.00	105			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.08			1.00	108			
STANDARD	ISB	0710A	0.93			1.00	93			
STANDARD	CCV	0511G	1.02			1.00	102			
STANDARD	CCV	0511G	1.07			1.00	107			
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.05			1.00	105			
STANDARD	ISB	0710A	0.96			1.00	96			
STANDARD	CCV	0511G	1.04			1.00	104			
STANDARD	CCV	0511G	1.04			1.00	104			
SPIKE	PDS	941626-002	1.02					<0.05	1.00	102
SPIKE	PDS	941598-008	1.04					<0.05	1.00	104

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead, Diss. (Pb)				DATE/TIME ANALYZED:07/20/94 13:29				QC BATCH NUMBER:302306		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE :6010 (2)				TECHNICIAN:WGL		
SPIKE	PDS	941627-001	0.87					<0.05	1.00	87
DUPLICATE	MD	941626-002	<0.05	<0.05	NC					
DUPLICATE	MD	941627-001	<0.05	<0.05	NC					
DUPLICATE	MD	941598-007	<0.05	<0.05	NC					

PARAMETER:Selenium, Diss. (Se) DATE/TIME ANALYZED:07/20/94 13:29 QC BATCH NUMBER:302307
REPORTING LIMIT/DF: 0.1 UNITS:mg/L METHOD REFERENCE :6010 (2) TECHNICIAN:WGL

BLANK	ICB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
BLANK	CCB	0615D	<0.1							
STANDARD	ICV	0524F	2.2			2.0	110			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	ISB	0710A	0.9			1.0	90			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	CCV	0511G	2.7			2.5	108			
STANDARD	CCV	0511G	2.6			2.5	104			
STANDARD	ISB	0710A	1.0			1.0	100			
STANDARD	CCV	0511G	2.7			2.5	108			
STANDARD	CCV	0511G	2.6			2.5	104			
SPIKE	PDS	941626-002	1.2					<0.1	1.0	120
SPIKE	PDS	941598-008	1.1					<0.1	1.0	110
SPIKE	PDS	941627-001	1.2					<0.1	1.0	120
DUPLICATE	MD	941626-002	<0.1	<0.1	NC					
DUPLICATE	MD	941627-001	<0.1	<0.1	NC					
DUPLICATE	MD	941598-007	<0.1	<0.1	NC					

PARAMETER:Zinc, Diss. (Zn) DATE/TIME ANALYZED:07/20/94 13:29 QC BATCH NUMBER:302308
REPORTING LIMIT/DF: 0.01 UNITS:mg/L METHOD REFERENCE :6010 (2) TECHNICIAN:WGL

BLANK	ICB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							

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JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER: Zinc, Diss. (Zn)				DATE/TIME ANALYZED: 07/20/94 13:29				QC BATCH NUMBER: 302308		
REPORTING LIMIT/DF: 0.01 UNITS: mg/L				METHOD REFERENCE : 6010 (2)				TECHNICIAN: WGL		
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
BLANK	CCB	0615D	<0.01							
STANDARD	ICV	0524F	2.19			2.00	110			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.75			2.50	110			
STANDARD	CCV	0511G	2.71			2.50	108			
STANDARD	ISB	0710A	0.94			1.00	94			
STANDARD	CCV	0511G	2.63			2.50	105			
STANDARD	CCV	0511G	2.73			2.50	109			
STANDARD	CCV	0511G	2.67			2.50	107			
STANDARD	CCV	0511G	2.72			2.50	109			
STANDARD	ISB	0710A	1.00			1.00	100			
STANDARD	CCV	0511G	2.68			2.50	107			
STANDARD	CCV	0511G	2.70			2.50	108			
SPIKE	PDS	941626-002	1.09					0.01	1.00	108
SPIKE	PDS	941598-008	1.10					<0.01	1.00	110
SPIKE	PDS	941627-001	0.96					0.02	1.00	94
DUPLICATE	MD	941626-002	0.01	0.01	0.00					
DUPLICATE	MD	941627-001	0.02	0.02	0.00					
DUPLICATE	MD	941598-007	<0.01	<0.01	NC					

PARAMETER: Mercury, Total (Hg)				DATE/TIME ANALYZED: 07/20/94 14:30				QC BATCH NUMBER: 302347		
REPORTING LIMIT/DF: 0.0002 UNITS: mg/L				METHOD REFERENCE : 7470 (2)				TECHNICIAN: LMT		
BLANK	ICB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
BLANK	CCB	07204	<0.0002							
STANDARD	ICV	0311G	0.0040			0.0040	100			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
STANDARD	CCV	1228Q	0.0025			0.0025	100			
STANDARD	CCV	1228Q	0.0023			0.0025	92			
SPIKE	MS	941626-002	0.0047					<0.0002	0.0050	94
SPIKE	MS	941627-002	0.0044					<0.0002	0.0050	88
DUPLICATE	MD	941627-001	<0.0002	<0.0002	NC					
DUPLICATE	MD	941626-001	<0.0002	<0.0002	NC					

PARAMETER: Sulfate (Unfilt.)				DATE/TIME ANALYZED: 07/22/94 10:00				QC BATCH NUMBER: 302575		
REPORTING LIMIT/DF: 10 UNITS: mg/L				METHOD REFERENCE : 375.2 (1)				TECHNICIAN: DME		
BLANK	ICB	940722	<10							
BLANK	CCB	940722	<10							

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QUALITY CONTROL REPORT 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Sulfate (Unfilt.)				DATE/TIME ANALYZED:07/22/94 10:00				QC BATCH NUMBER:302575		
REPORTING LIMIT/DF: 10 UNITS:mg/L				METHOD REFERENCE :375.2 (1)				TECHNICIAN:DME		
BLANK	CCB	940722	<10							
BLANK	CCB	940722	<10							
BLANK	CCB	940722	<10							
STANDARD	ICV/LCS	G940415A	150			150	100			
STANDARD	CCV	S120	117			120	98			
STANDARD	CCV	S120	121			120	101			
STANDARD	CCV	S120	122			120	102			
STANDARD	CCV	S120	124			120	103			
SPIKE	MS	941626-2	194					150	50	88
SPIKE	MS	941626-9	139					93	50	92
SPIKE	MS	941634-1	151					106	50	90
SPIKE	MS	941665-4	58					<10	50	116
DUPLICATE	MD	941626-2	150	150	0					
DUPLICATE	MD	941626-9	93	94	1					
DUPLICATE	MD	941634-1	106	105	1					
DUPLICATE	MD	941665-4	<10	<10	NC					

PARAMETER:Chloride (Unfilt.)	DATE/TIME ANALYZED:07/22/94 14:00	QC BATCH NUMBER:302583
REPORTING LIMIT/DF: 0.5 UNITS:mg/L	METHOD REFERENCE :325.2 (1)	TECHNICIAN:DME

BLANK	ICB	940722	<0.5							
BLANK	CCB	940722	<0.5							
STANDARD	ICV/LCS	G931229C	51.8			50.0	104			
STANDARD	CCV	S160	159			160	99			
SPIKE	MS	941643-2	50.1					1.2	50.0	98
DUPLICATE	MD	941643-2	1.2	1.0	0.2					

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 07/14/94 TIME ANALYZED: 08:42 METHOD: 604 (6)

QC NUMBER:303649

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB	2310	1	0	0	
	SBD	0012 07/15	1	0	0	
Date Extracted	SB	07/01/94	1	0	0	
	SBD	07/01/94	1	0	0	

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CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 07/14/94 TIME ANALYZED: 08:42 METHOD: 604 (6)

QC NUMBER:303649

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	36	50	72	10	ug/L
	SBD	B940331A	1	28	50	56	10	ug/L
2-Chlorophenol	SB	B940331A	1	29	50	58	10	ug/L
	SBD	B940331A	1	22	50	44	10	ug/L
1,4-Dichlorobenzene	SB	B940331A	1	18	50	36	10	ug/L
	SBD	B940331A	1	24	50	48	10	ug/L
N-Nitrosodi-n-propylamine	SB	B940331A	1	40	50	80	10	ug/L
	SBD	B940331A	1	43	50	86	10	ug/L
1,2,4-Trichlorobenzene	SB	B940331A	1	23	50	46	10	ug/L
	SBD	B940331A	1	26	50	52	10	ug/L
4-Chloro-3-methylphenol	SB	B940331A	1	45	50	90	10	ug/L
	SBD	B940331A	1	34	50	68	10	ug/L
Acenaphthene	SB	B940331A	1	38	50	76	10	ug/L
	SBD	B940331A	1	37	50	74	10	ug/L
4-Nitrophenol	SB	B940331A	1	26	50	52	50	ug/L
	SBD	B940331A	1	16	50	32	50	ug/L
2,4-Dinitrotoluene	SB	B940331A	1	46	50	92	10	ug/L
	SBD	B940331A	1	43	50	86	10	ug/L
Pentachlorophenol	SB	B940331A	1	50	50	100	50	ug/L
	SBD	B940331A	1	31	50	62	50	ug/L
Pyrene	SB	B940331A	1	44	50	88	10	ug/L
	SBD	B940331A	1	42	50	84	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B940331A	1	77	100	77	0	35-114% Limit
	SBD	B940331A	1	99	100	99	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B940331A	1	77	100	77	0	43-116% Limit
	SBD	B940331A	1	81	100	81	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B940331A	1	95	100	95	0	33-141% Limit
	SBD	B940331A	1	96	100	96	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B940331A	1	62	100	62	0	10-94% Limit
	SBD	B940331A	1	49	100	49	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B940331A	1	38	100	38	0	21-100% Limit
	SBD	B940331A	1	30	100	30	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SB	B940331A	1	95	100	95	0	10-123% Limit
	SBD	B940331A	1	71	100	71	0	10-123% Limit

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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>	<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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LABORATORY TESTS RESULTS 08/08/94

JOB NUMBER: 941626

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:
CLIENT I.D.: REXENE COC #8351

DATE SAMPLED: 06/27/94

TIME SAMPLED: 18:45

WORK DESCRIPTION: 9406271845

LABORATORY I.D.: 941626-0009

DATE RECEIVED: 06/30/94

TIME RECEIVED: 09:45

REMARKS: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Zinc, Diss. (Zn)	<0.01	0.01	mg/L	6010 (2)	07/20/94	WGL
610 - PAH'S BY 8270		*2		8270 (2)	07/25/94	DMJ
Acenaphthene	ND	20	ug/L			
Acenaphthylene	ND	20	ug/L			
Anthracene	ND	20	ug/L			
Benzo(a)anthracene	ND	20	ug/L			
Benzo(b)fluoranthene	ND	20	ug/L			
Benzo(k)fluoranthene	ND	20	ug/L			
Benzo(ghi)perylene	ND	20	ug/L			
Benzo(a)pyrene	ND	20	ug/L			
Chrysene	ND	20	ug/L			
Dibenzo(a,h)anthracene	ND	20	ug/L			
Fluoranthene	ND	20	ug/L			
Fluorene	ND	20	ug/L			
Indeno(1,2,3-cd)pyrene	ND	20	ug/L			
1-Methylnaphthalene	ND	20	ug/L			
2-Methylnaphthalene	ND	20	ug/L			
Naphthalene	ND	20	ug/L			
Phenanthrene	ND	20	ug/L			
Pyrene	ND	20	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	100	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	43	0	% Recovery	33-141% Limit		
Time Analyzed	1302	0				
Date Extracted	07/01/94	0				
604 - PHENOLS BY 8270		*2		8270 (2)	07/25/94	DMJ
4-Chloro-3-methylphenol	ND	20	ug/L			
2-Chlorophenol	ND	20	ug/L			
2,4-Dichlorophenol	ND	20	ug/L			
2,4-Dimethylphenol	ND	20	ug/L			
2,4-Dinitrophenol	ND	100	ug/L			
2-Methyl-4,6-dinitrophenol	ND	100	ug/L			
2-Nitrophenol	ND	20	ug/L			
4-Nitrophenol	ND	100	ug/L			
Pentachlorophenol	ND	100	ug/L			
Phenol	93	20	ug/L			
2,4,6-Trichlorophenol	ND	20	ug/L			
Nitrobenzene-d5 (Surrogate)	76	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	100	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	43	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	24	0	% Recovery	10-94% Limit		

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

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

Detection Limits (ug/l):

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

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

Parameter	WQCC Std.	12/08/93	3/23/94	06/28/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	ND	ND					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	ND					

Detection Limits (ug/l):

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

3031/Phenol/MW-2P.WQ2

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

Parameter	WQCC Std.	12/08/93	3/25/94	6/27/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	ND	ND					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	ND					

Detection Limits (ug/l):

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

3031/Phenol/MW-3SP.WQ2

MW-3D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l)

Parameter	WQCC Std.	12/08/93	3/23/94	07/12/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	ND	ND					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	ND					

Detection Limits (ug/l):

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

3031/Phenol/MW-3DP.WQ2

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

Parameter	WQCC Std.	12/08/93	3/23/94	06/27/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND,ND	ND					
2,4-Dichlorophenol	TP	NS	ND,ND	ND					
2,4-Dimethylphenol	None	NS	ND,ND	ND					
2,4-Dinitrophenol	TP	NS	ND,ND	ND					
2-Chlorophenol	None	NS	ND,ND	ND					
2-Nitrophenol	None	NS	ND,ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND,ND	ND					
4-Chloro-3-methylphenol	None	NS	ND,ND	ND					
4-Nitrophenol	None	NS	ND,ND	ND					
Pentachlorophenol	TP	NS	ND,ND	ND					
Phenol	5	NS	ND,ND	ND					

Detection Limits (ug/l):

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

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	3/24/94	6/27/94					
Phenols									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	16	ND					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	ND					

Detection Limits (ug/l):

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

3031/Phenol/MW-5P. WQ2

MW-6S
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l)

Parameter	WQCC Std.	12/08/93	3/25/94	06/27/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	ND	ND					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphen	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	ND					

Detection Limits (ug/l):

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

3031/Phenol/MW-6SP.WQ2

MW-6D
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l)

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

Detection Limits (ug/l):

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

3031/Phenol/MW-6DP.WQ2

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

Parameter	WQCC Std.	12/08/93	3/24/94	06/27/94					
<u>Phenols</u>									
	2,4,6-Trichlorophenol	TP	NS	ND	ND				
	2,4-Dichlorophenol	TP	NS	ND	ND				
	2,4-Dimethylphenol	None	NS	ND	ND				
	2,4-Dinitrophenol	TP	NS	ND	ND				
	2-Chlorophenol	None	NS	ND	ND				
	2-Nitrophenol	None	NS	ND	ND				
	4,6-Dinitro-2-methylphen	None	NS	ND	ND				
	4-Chloro-3-methylphenol	None	NS	ND	ND				
	4-Nitrophenol	None	NS	ND	ND				
	Pentachlorophenol	TP	NS	ND	ND				
	Phenol	5	NS	ND	ND				

Detection Limits (ug/l):

2,4,6-Trichlorophenol	50	2-Nitrophenol	50	NS = Not sampled
2,4-Dichlorophenol	50	4,6-Dinitro-2-methylphenol	250	NA = Not analyzed
2,4-Dimethylphenol	50	4-Chloro-3-methylphenol	50	ND = Not detected
2,4-Dinitrophenol	250	4-Nitrophenol	250	TP = WQCC toxic pollutant
2-Chlorophenol	50	Pentachlorophenol	250	
		Phenol	50	

MW-8
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l)

Parameter	WQCC Std.	12/08/93	3/24/94	06/27/94					
<u>Phenols</u>									
2,4,6-Trichlorophenol	TP	NS	ND	ND					
2,4-Dichlorophenol	TP	NS	ND	ND					
2,4-Dimethylphenol	None	NS	96	56					
2,4-Dinitrophenol	TP	NS	ND	ND					
2-Chlorophenol	None	NS	ND	ND					
2-Nitrophenol	None	NS	ND	ND					
4,6-Dinitro-2-methylphenol	None	NS	ND	ND					
4-Chloro-3-methylphenol	None	NS	ND	ND					
4-Nitrophenol	None	NS	ND	ND					
Pentachlorophenol	TP	NS	ND	ND					
Phenol	5	NS	ND	110					

Detection Limits (ug/l):

2,4,6-Trichlorophenol	50	2-Nitrophenol	50	NS = Not sampled
2,4-Dichlorophenol	50	4,6-Dinitro-2-methylphenol	250	NA = Not analyzed
2,4-Dimethylphenol	50	4-Chloro-3-methylphenol	50	ND = Not detected
2,4-Dinitrophenol	250	4-Nitrophenol	250	TP = WQCC toxic pollutant
2-Chlorophenol	50	Pentachlorophenol	250	
		Phenol	50	

3031/Phenol/MW-8P. WQ2

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

Parameter	WQCC Std.	12/08/93	3/25/94	6/27/94				
<u>Phenols</u>	2,4,6-Trichlorophenol	TP	NS	ND	ND			
	2,4-Dichlorophenol	TP	NS	ND	ND			
	2,4-Dimethylphenol	None	NS	ND	ND			
	2,4-Dinitrophenol	TP	NS	ND	ND			
	2-Chlorophenol	None	NS	ND	ND			
	2-Nitrophenol	None	NS	ND	ND			
	4,6-Dinitro-2-methylphen	None	NS	ND	ND			
	4-Chloro-3-methylphenol	None	NS	ND	ND			
	4-Nitrophenol	None	NS	ND	ND			
	Pentachlorophenol	TP	NS	ND	ND			
	Phenol	5	NS	ND	ND			

Detection Limits (ug/l):

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

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

Parameter	WQCC Std.	12/08/93	3/25/94	06/27/94					
<u>Phenols</u>									
	2,4,6-Trichlorophenol	TP	NS	ND	ND				
	2,4-Dichlorophenol	TP	NS	ND	ND				
	2,4-Dimethylphenol	None	NS	ND	ND				
	2,4-Dinitrophenol	TP	NS	ND	ND				
	2-Chlorophenol	None	NS	ND	ND				
	2-Nitrophenol	None	NS	ND	ND				
	4,6-Dinitro-2-methylphen	None	NS	ND	ND				
	4-Chloro-3-methylphenol	None	NS	ND	ND				
	4-Nitrophenol	None	NS	ND	ND				
	Pentachlorophenol	TP	NS	ND	ND				
	Phenol	5	NS	ND	ND				

Detection Limits (ug/l):

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

NS = Not sampled
NA = Not analyzed
ND = Not detected
TP = WQCC toxic pollutant

3031/Phenol/MW-11P.WQ2

MW-12
Brickland Refinery Site
Quarterly Analytical Results
(All results in ug/l)

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

Detection Limits (ug/l):

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

3031/Phenol/MW-12P.WO2

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

Parameter	WQCC Std.	06/28/94						
<u>Phenols</u>								
2,4,6-Trichlorophenol	TP	ND						
2,4-Dichlorophenol	TP	ND						
2,4-Dimethylphenol	None	ND						
2,4-Dinitrophenol	TP	ND						
2-Chlorophenol	None	ND						
2-Nitrophenol	None	ND						
4,6-Dinitro-2-methylphen	None	ND						
4-Chloro-3-methylphenol	None	ND						
4-Nitrophenol	None	ND						
Pentachlorophenol	TP	ND						
Phenol	5	300						

Detection Limits (ug/l):								
2,4,6-Trichlorophenol	50	2-Nitrophenol	50	NS = Not sampled				
2,4-Dichlorophenol	50	4,6-Dinitro-2-methylphenol	250	NA = Not analyzed				
2,4-Dimethylphenol	50	4-Chloro-3-methylphenol	50	ND = Not detected				
2,4-Dinitrophenol	250	4-Nitrophenol	250	TP = WQCC toxic pollutant				
2-Chlorophenol	50	Pentachlorophenol	250					
		Phenol	250					

3031/Phenol/MW-14P.WQ2

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

Parameter	WQCC Std.	06/28/94						
<u>Phenols</u>								
2,4,6-Trichlorophenol	TP	ND						
2,4-Dichlorophenol	TP	ND						
2,4-Dimethylphenol	None	ND						
2,4-Dinitrophenol	TP	ND						
2-Chlorophenol	None	ND						
2-Nitrophenol	None	ND						
4,6-Dinitro-2-methylphen	None	ND						
4-Chloro-3-methylphenol	None	ND						
4-Nitrophenol	None	ND						
Pentachlorophenol	TP	ND						
Phenol	5	ND						

Detection Limits (ug/l):

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

MW-16
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l)

Parameter	WQCC Std.	07/12/94						
<u>Phenols</u>								
2,4,6-Trichlorophenol	TP	ND,ND						
2,4-Dichlorophenol	TP	ND,ND						
2,4-Dimethylphenol	None	ND,ND						
2,4-Dinitrophenol	TP	ND,ND						
2-Chlorophenol	None	ND,ND						
2-Nitrophenol	None	ND,ND						
4,6-Dinitro-2-methylphen	None	ND,ND						
4-Chloro-3-methylphenol	None	ND,ND						
4-Nitrophenol	None	ND,ND						
Pentachlorophenol	TP	ND,ND						
Phenol	5	ND,ND						

Detection Limits (ug/l):

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

3031/Phenol/MW-16P.WQ2

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

Parameter	WQCC Std.	06/28/94						
<u>Phenols</u>								
2,4,6-Trichlorophenol	TP	ND						
2,4-Dichlorophenol	TP	ND						
2,4-Dimethylphenol	None	ND						
2,4-Dinitrophenol	TP	ND						
2-Chlorophenol	None	ND						
2-Nitrophenol	None	ND						
4,6-Dinitro-2-methylphen	None	ND						
4-Chloro-3-methylphenol	None	ND						
4-Nitrophenol	None	ND						
Pentachlorophenol	TP	ND						
Phenol	5	ND						

Detection Limits (ug/l):

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

3031/Phenol/MW-17P.WQ2

MW-1
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					
Benzene	10	ND	ND	1.3					
Toluene	750	ND	ND	ND					
Ethyl Benzene	750	ND	ND	ND					
Xylenes	620	ND	ND	ND					
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	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.	12/08/93	03/23/94	06/27/94					
Calcium	None	NS	109	106					
Magnesium	None	NS	27.2	31.0					
Potassium	None	NS	14	13.7					
Sodium	None	NS	175	105					
Bicarbonate	None	NS	456	488					
Chloride	250	NS	133	39.3					
Nitrate (N)	10	NS	ND	0.3					
Sulfate	600	NS	123	150					

Detection Limits (mg/l):

Calcium 1.0 Bicarbonate 5.0 ND = Not detected
 Magnesium 0.5 Chloride 0.5 NS = Not sampled
 Potassium 0.1 Nitrate (N) 0.1
 Sodium 5.0 Sulfate 10.0

MW-2
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					
Benzene	10	NS	ND	ND					
Toluene	750	NS	18	ND					
Ethyl Benzene	750	NS	3.2	ND					
Xylenes	620	NS	49	ND					
Total Vol. Petroleum Hydrocarbon	None	NS	0.5	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.	12/08/93	03/23/94	06/28/94					
Calcium	None	NS	1130	1080					
Magnesium	None	NS	401	500					
Potassium	None	NS	72	125					
Sodium	None	NS	3750	3040					
Bicarbonate	None	NS	728	769					
Chloride	250	NS	5680	6770					
Nitrate (N)	10	NS	ND	0.3					
Sulfate	600	NS	2280	2790					

Detection Limits (mg/l):
 Calcium 20 Bicarbonate 5.0
 Magnesium 20 Chloride 25.0
 Potassium 5.0 Nitrate (N) 0.1
 Sodium 20 Sulfate 1000

ND = Not detected
 NS = Not sampled

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					
Benzene	10	ND	ND	0.8					
Toluene	750	ND	4.9	ND					
Ethyl Benzene	750	ND	ND	ND					
Xylenes	620	ND	18	ND					
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	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.	12/08/93	03/25/94	06/27/94					
Calcium	None	NS	143	157					
Magnesium	None	NS	70.6	75.9					
Potassium	None	NS	13.3	28					
Sodium	None	NS	1390	1040					
Bicarbonate Chloride	None	NS	624	756					
Nitrate (N)	250	NS	2030	2630					
Sulfate	10	NS	ND	0.4					
	600	NS	720	1010					

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	25.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	250	

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					
Benzene	10	ND	ND	0.6					
Toluene	750	ND	ND	ND					
Ethyl Benzene	750	ND	ND	ND					
Xylenes	620	ND	ND	ND					
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	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.	12/08/93	03/23/94	06/27/94					
Calcium	None	NS	473	460					
Magnesium	None	NS	246	220					
Potassium	None	NS	36	61					
Sodium	None	NS	3830	2760					
Bicarbonate	None	NS	468	473					
Chloride	250	NS	4720	6560					
Nitrate (N)	10	NS	ND	0.1					
Sulfate	600	NS	2630	2550					

Detection Limits (mg/l):

Calcium	20	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	25.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	1000	

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					
Benzene	10	NS	130,110	1800					
Toluene	750	NS	ND,ND	12					
Ethyl Benzene	750	NS	2.5,1.6	50					
Xylenes	620	NS	ND,ND	ND					
Total Vol. Petroleum Hydrocarbon	None	NS	ND,ND	NA					

Detection Limits (ug/l):
 Benzene 0.5 Ethyl Benzene 0.5 Total Vol. Petroleum 0.1 mg/l
 Toluene 0.5 Xylenes 0.5 Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94					
Calcium	None	NS	740,755	430					
Magnesium	None	NS	262,247	217					
Potassium	None	NS	57,69	66					
Sodium	None	NS	2920,2930	2050					
Bicarbonate	None	NS	924,908	1350					
Chloride	250	NS	4010,4330	4300					
Nitrate (N)	10	NS	ND,ND	2.8					
Sulfate	600	NS	1820,2100	932					

Detection Limits (mg/l):
 Calcium 20.0 Bicarbonate 5.0 ND = Not detected
 Magnesium 0.5 Chloride 25.0 NS = Not sampled
 Potassium 5.0 Nitrate (N) 0.1
 Sodium 20 Sulfate 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					
Benzene	10	NS	7100	5000,4200					
Toluene	750	NS	160	ND,ND					
Ethyl Benzene	750	NS	53	ND,ND					
Xylenes	620	NS	420	130,130					
Total Vol. Petroleum Hydrocarbon	None	NS	12	NA,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.	12/08/93	03/24/94	06/27/94					
Calcium	None	NS	402	500					
Magnesium	None	NS	180	160					
Potassium	None	NS	24.2	58					
Sodium	None	NS	2880	2230					
Bicarbonate	None	NS	1860	1710					
Chloride	250	NS	5280	5450					
Nitrate (N)	10	NS	ND	0.3					
Sulfate	600	NS	505	962					

Detection Limits (mg/l):

Calcium	20.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	25.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	150	

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					
Benzene	10	71	74	110					
Toluene	750	ND	ND	ND					
Ethyl Benzene	750	52	12	30					
Xylenes	620	ND	7.6	88					
Total Vol. Petroleum Hydrocarbons	None	2.9	1.8	NA					

Detection Limits (ug/l):

Benzene	10	Ethyl Benzene	10	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	10	Xylenes	10		

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94					
Calcium	None	NS	244	259					
Magnesium	None	NS	104	101					
Potassium	None	NS	19.4	40					
Sodium	None	NS	1550	1120					
Bicarbonate	None	NS	1690	2020					
Chloride	250	NS	5280	2090					
Nitrate (N)	10	NS	ND	0.4					
Sulfate	600	NS	505	84					

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	5.0	NS = Not sampled
Potassium	0.5	Nitrate (N)	0.1	
Sodium	20	Sulfate	10-100	

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				
Benzene	10	ND	ND	ND				
Toluene	750	ND	ND	ND				
Ethyl Benzene	750	ND	ND	ND				
Xylenes	620	ND	1.6	ND				
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	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.	12/08/93	03/23/94	06/27/94				
Calcium	None	NS	510	530				
Magnesium	None	NS	218	188				
Potassium	None	NS	25	62				
Sodium	None	NS	3520	3100				
Bicarbonate	None	NS	475	739				
Chloride	250	NS	5600	3990				
Nitrate (N)	10	NS	ND	10				
Sulfate	600	NS	2360	2420				

Detection Limits (mg/l):

Calcium	20.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	25.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	1000	

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					
Benzene	10	NS	31	ND					
Toluene	750	NS	ND	ND					
Ethyl Benzene	750	NS	2.1	ND					
Xylenes	620	NS	0.6	3.2					
Total Vol. Petroleum Hydrocarbon	None	NS	ND	NA					

Detection Limits (ug/l):

Benzene 0.5
 Toluene 0.5
 Ethyl Benzene
 Xylenes

0.5
 0.5
 Total Vol. Petroleum Hydrocarbons 0.1 mg/l

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94					
Calcium	None	NS	300	248					
Magnesium	None	NS	72.3	66.8					
Potassium	None	NS	22.1	37					
Sodium	None	NS	1620	710					
Bicarbonate	None	NS	1320	1330					
Chloride	250	NS	2220	1210					
Nitrate (N)	10	NS	ND	0.3					
Sulfate	600	NS	755	575					

Detection Limits (mg/l):

Calcium 1.0
 Magnesium 0.5
 Potassium 0.5
 Sodium 20
 Bicarbonate
 Chloride
 Nitrate (N)
 Sulfate

5.0
 5.0
 0.1
 10-100
 ND = Not detected
 NS = Not sampled

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				
Benzene	10	NS	9600	2400				
Toluene	750	NS	ND	ND				
Ethyl Benzene	750	NS	ND	ND				
Xylenes	620	NS	720	ND				
Total Vol. Petroleum Hydrocarbon	None	NS	ND	NA				

Detection Limits (ug/l):

Benzene	100	Ethyl Benzene	100	Total Vol. Petroleum	0.1 mg/l
Toluene	100	Xylenes	100	Hydrocarbons	

(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94				
Calcium	None	NS	46.5	89.9				
Magnesium	None	NS	33.9	36.1				
Potassium	None	NS	10.2	20.0				
Sodium	None	NS	1560	1150				
Bicarbonate	None	NS	2680	2670				
Chloride	250	NS	1210	1380				
Nitrate (N)	10	NS	ND	0.5				
Sulfate	600	NS	20	60				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	5.0	NS = Not sampled
Potassium	0.1	Nitrate (N)	0.1	
Sodium	20	Sulfate	10	

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				
Benzene	10	ND	ND	ND				
Toluene	750	ND	ND	ND				
Ethyl Benzene	750	ND	ND	ND				
Xylenes	620	ND	ND	0.6				
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	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.	12/08/93	03/25/94	06/27/94				
Calcium	None	NS	305	245				
Magnesium	None	NS	104	87.3				
Potassium	None	NS	13.7	27				
Sodium	None	NS	1450	1090				
Bicarbonate	None	NS	628	820				
Chloride	250	NS	1280	1350				
Nitrate (N)	10	NS	ND	1.4				
Sulfate	600	NS	1800	2010				

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	5.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	1000	

MW-11
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					
Benzene	10	NS	120	ND					
Toluene	750	NS	0.7	ND					
Ethyl Benzene	750	NS	4.7	ND					
Xylenes	620	NS	4.4	ND					
Total Vol. Petroleum Hydrocarbon	None	NS	1.0	ND					

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.	12/08/93	03/25/94	07/12/94					
Calcium	None	NS	79	116					
Magnesium	None	NS	62.3	69.5					
Potassium	None	NS	18.3	29					
Sodium	None	NS	1050	820					
Bicarbonate	None	NS	1620	1830					
Chloride	250	NS	959	927					
Nitrate (N)	10	NS	0.2	1.3					
Sulfate	600	NS	ND	18					

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	5.0	NS = Not sampled
Potassium	5	Nitrate (N)	0.1	
Sodium	20	Sulfate	10	

MW-12
Brickland Refinery Site
Quarterly Analytical Results
 (All results in ug/l except TPH)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94				
Benzene	10	ND	ND	1.9				
Toluene	750	ND	ND	ND				
Ethyl Benzene	750	ND	ND	ND				
Xylenes	620	ND	ND	ND				
Total Vol. Petroleum Hydrocarbon	None	0.1	ND	ND				

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.	12/08/93	03/23/94	06/27/94				
Calcium	None	NS	1380	910				
Magnesium	None	NS	495	380				
Potassium	None	NS	55	76				
Sodium	None	NS	4340	3300				
Bicarbonate	None	NS	532	672				
Chloride	250	NS	8260	7200				
Nitrate (N)	10	NS	ND	0.2				
Sulfate	600	NS	1920	2350				

Detection Limits (mg/l):

Calcium	20	Bicarbonate	5.0	ND = Not detected
Magnesium	20	Chloride	25.0	NS = Not sampled
Potassium	5	Nitrate (N)	0.1	
Sodium	20	Sulfate	1000	

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

Paramet	WQCC Std.	07/12/94						
Benzene	10	23000						
Toluene	750	ND						
Ethyl Benz	750	ND						
Xylenes	620	ND						
Total Vol.	None	NA						
Hydroc								

Detection Limits (ug/l):

Benzene	500	Ethyl Benzene	500	Total Vol. Petroleum	0.1 mg/l
Toluene	500	Xylenes	500	Hydrocarbons	

(All results in mg/l)

Paramet	WQCC Std.	07/12/94						
Calcium	None	165						
Magnesi	None	81.3						
Potassium	None	11.4						
Sodium	None	730						
Bicarbonat	None	1490						
Chloride	250	910						
Nitrate (N	10	ND						
Sulfate	600	200						

Detection Limits (mg/l):

Calcium	0.1	Bicarbonate	5.0	ND = Not detected
Magnesi	0.1	Chloride	2.5	NS = Not sampled
Potassium	2.5	Nitrate (N)	0.1	
Sodium	5	Sulfate	5.0	

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

Parameter	WQCC Std.	06/28/94						
Benzene	10	34						
Toluene	750	ND						
Ethyl Benzene	750	13						
Xylenes	620	13						
Total Vol. Petroleum Hydrocarbon	None	NA						

Detection Limits (ug/l):
 Benzene 5.0 Ethyl Benzene 5.0 Total Vol. Petroleum 0.1 mg/l
 Toluene 5.0 Xylenes 5.0 Hydrocarbons

(All results in mg/l)

Parameter	WQCC Std.	07/12/94						
Calcium	None	57.7						
Magnesium	None	16.4						
Potassium	None	23						
Sodium	None	458						
Bicarbonate	None	723						
Chloride	250	436						
Nitrate (N)	10	ND						
Sulfate	600	294						

Detection Limits (mg/l):
 Calcium 1.0 Bicarbonate 5.0 ND = Not detected
 Magnesium 0.1 Chloride 5.0 NS = Not sampled
 Potassium 1.0 Nitrate (N) 0.1
 Sodium 5.0 Sulfate 20.0

MW-16
Brickland Refinery Site
Quarterly Analytical Results

(All results in ug/l except TPH)

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

Detection Limits (ug/l):

Benzene	1.0	Ethyl Benzene	1.0	Total Vol. Petroleum	0.1 mg/l
Toluene	1.0	Xylenes	1.0	Hydrocarbons	

(All results in mg/l)

Parameter	WQCC Std.	07/12/94						
Calcium	None	237,243						
Magnesium	None	96,799.5						
Potassium	None	35,30						
Sodium	None	1500,1490						
Bicarbonate	None	1100,1090						
Chloride	250	1910,1870						
Nitrate (N)	10	ND,ND						
Sulfate	600	1510,1780						

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.1	Chloride	5.0	NS = Not sampled
Potassium	2.0	Nitrate (N)	0.1	
Sodium	10	Sulfate	100	

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

Parameter	WQCC Std.	06/28/94						
Benzene	10	17						
Toluene	750	ND						
Ethyl Benzene	750	19						
Xylenes	620	30						
Total Vol. Petroleum Hydrocarbon	None	NA						

Detection Limits (ug/l):

Benzene	5.0	Ethyl Benzene	5.0	Total Vol. Petroleum Hydrocarbons	0.1 mg/l
Toluene	5.0	Xylenes	5.0		

(All results in mg/l)

Parameter	WQCC Std.	06/28/94						
Calcium	None	218						
Magnesium	None	63.8						
Potassium	None	38						
Sodium	None	610						
Bicarbonate	None	1100						
Chloride	250	1350						
Nitrate (N)	10	0.3						
Sulfate	600	318						

Detection Limits (mg/l):

Calcium	1.0	Bicarbonate	5.0	ND = Not detected
Magnesium	0.5	Chloride	5.0	NS = Not sampled
Potassium	5.0	Nitrate (N)	0.1	
Sodium	20	Sulfate	30.0	

MW-1
Brickland Refinery Site
Quarterly Analytical Results
(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94					
Aluminum	5.0	NA	NA	1.20					
Arsenic	0.1	0.07	0.07	ND					
Barium	1.0	0.14	0.11	0.18					
Cadmium	0.01	ND	ND	ND					
Chromium	0.05	ND	ND	ND					
Cobalt	0.05	ND	ND	ND					
Copper	1.0	ND	ND	0.01					
Iron	1.0	NA	NA	1.96					
Lead	0.05	ND	ND	ND					
Manganese	0.2	NA	NA	1.42					
Mercury	0.002	ND	ND	ND					
Molybdenum	1.0	ND	ND	ND					
Nickel	0.2	ND	ND	ND					
Selenium	0.05	ND	ND	ND					
Silver	0.05	ND	ND	ND					
Zinc	10.0	ND	ND	0.01					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.01
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

MW-2
Brickland Refinery Site
Quarterly Analytical Results
 (All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/28/94				
Aluminum	5.0	NS	NA	ND				
Arsenic	0.1	NS	ND	ND				
Barium	1.0	NS	0.01	ND				
Cadmium	0.01	NS	ND	ND				
Chromium	0.05	NS	0.01	ND				
Cobalt	0.05	NS	ND	ND				
Copper	1.0	NS	ND	ND				
Iron	1.0	NS	NA	1.83				
Lead	0.05	NS	ND	ND				
Manganese	0.2	NS	NA	7.47				
Mercury	0.002	NS	ND	ND				
Molybdenum	1.0	NS	ND	ND				
Nickel	0.2	NS	ND	ND				
Selenium	0.05	NS	ND	ND				
Silver	0.05	NS	ND	ND				
Zinc	10.0	NS	ND	ND				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94				
Aluminum	5.0	NA	NA	2.32				
Arsenic	0.1	ND	ND	ND				
Barium	1.0	0.08	0.08	0.13				
Cadmium	0.01	ND	ND	ND				
Chromium	0.05	ND	ND	ND				
Cobalt	0.05	ND	ND	ND				
Copper	1.0	ND	ND	0.01				
Iron	1.0	NA	NA	3.91				
Lead	0.05	ND	ND	ND				
Manganese	0.2	NA	NA	1.12				
Mercury	0.002	ND	ND	ND				
Molybdenum	1.0	ND	ND	ND				
Nickel	0.2	ND	ND	ND				
Selenium	0.05	0.1	ND	ND				
Silver	0.05	ND	ND	ND				
Zinc	10.0	ND	ND	0.09				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94				
Aluminum	5.0	NA	NA	0.23				
Arsenic	0.1	ND	ND	ND				
Barium	1.0	0.04	0.04	0.04				
Cadmium	0.01	ND	ND	ND				
Chromium	0.05	ND	ND	ND				
Cobalt	0.05	ND	ND	ND				
Copper	1.0	0.02	ND	ND				
Iron	1.0	NA	NA	2.41				
Lead	0.05	ND	ND	ND				
Manganese	0.2	NA	NA	3.25				
Mercury	0.002	ND	ND	ND				
Molybdenum	1.0	ND	ND	ND				
Nickel	0.2	0.04	ND	ND				
Selenium	0.05	0.1	ND	ND				
Silver	0.05	ND	ND	ND				
Zinc	10.0	0.01	ND	ND				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

MW-4
Brickland Refinery Site
Quarterly Analytical Results
 (All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94				
Aluminum	5.0	NS	NA,NA	ND				
Arsenic	0.1	NS	0.07,ND	ND				
Barium	1.0	NS	0.05,0.05	0.20				
Cadmium	0.01	NS	ND,ND	ND				
Chromium	0.05	NS	0.01,ND	ND				
Cobalt	0.05	NS	ND,ND	ND				
Copper	1.0	NS	ND,ND	ND				
Iron	1.0	NS	NA,NA	1.78				
Lead	0.05	NS	ND,ND	ND				
Manganese	0.2	NS	NA,NA	3.21				
Mercury	0.002	NS	ND,ND	ND				
Molybdenum	1.0	NS	ND,ND	ND				
Nickel	0.2	NS	ND,ND	ND				
Selenium	0.05	NS	ND,ND	ND				
Silver	0.05	NS	ND,ND	ND				
Zinc	10.0	NS	ND,ND	ND				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94					
Aluminum	5.0	NS	NA	ND					
Arsenic	0.1	NS	ND	ND					
Barium	1.0	NS	0.31	0.25					
Cadmium	0.01	NS	ND	ND					
Chromium	0.05	NS	ND	ND					
Cobalt	0.05	NS	ND	ND					
Copper	1.0	NS	ND	ND					
Iron	1.0	NS	NA	0.06					
Lead	0.05	NS	ND	ND					
Manganese	0.2	NS	NA	0.01					
Mercury	0.002	NS	ND	ND					
Molybdenum	1.0	NS	ND	ND					
Nickel	0.2	NS	ND	ND					
Selenium	0.05	NS	0.1	ND					
Silver	0.05	NS	ND	ND					
Zinc	10.0	NS	ND	ND					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94				
Aluminum	5.0	NA	NA	0.08				
Arsenic	0.1	ND	0.27	0.08				
Barium	1.0	0.04	1.07	1.16				
Cadmium	0.01	ND	ND	ND				
Chromium	0.05	ND	ND	ND				
Cobalt	0.05	ND	ND	ND				
Copper	1.0	0.02	ND	ND				
Iron	1.0	NA	NA	4.78				
Lead	0.05	ND	ND	ND				
Manganese	0.2	NA	NA	1.08				
Mercury	0.002	ND	ND	ND				
Molybdenum	1.0	ND	ND	ND				
Nickel	0.2	0.04	ND	ND				
Selenium	0.05	0.1	ND	ND				
Silver	0.05	ND	ND	ND				
Zinc	10.0	0.01	ND	ND				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94					
Aluminum	5.0	NA	NA	0.06					
Arsenic	0.1	ND	ND	ND					
Barium	1.0	0.05	0.02	0.03					
Cadmium	0.01	0.029	ND	ND					
Chromium	0.05	ND	ND	ND					
Cobalt	0.05	ND	ND	ND					
Copper	1.0	0.02	ND	ND					
Iron	1.0	NA	NA	1.30					
Lead	0.05	ND	ND	ND					
Manganese	0.2	NA	NA	4.20					
Mercury	0.002	ND	ND	ND					
Molybdenum	1.0	ND	ND	ND					
Nickel	0.2	0.04	0.04	ND					
Selenium	0.05	ND	ND	ND					
Silver	0.05	ND	ND	ND					
Zinc	10.0	0.02	ND	ND					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

3031/METALS/MW-6S.WQ2

MW-7
Brickland Refinery Site
Quarterly Analytical Results
(All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94					
Aluminum	5.0	NS	NA	0.07					
Arsenic	0.1	NS	0.08	ND					
Barium	1.0	NS	0.22	0.35					
Cadmium	0.01	NS	ND	ND					
Chromium	0.05	NS	ND	ND					
Cobalt	0.05	NS	ND	ND					
Copper	1.0	NS	ND	ND					
Iron	1.0	NS	NA	1.92					
Lead	0.05	NS	ND	ND					
Manganese	0.2	NS	NA	0.80					
Mercury	0.002	NS	ND	ND					
Molybdenum	1.0	NS	ND	ND					
Nickel	0.2	NS	ND	ND					
Selenium	0.05	NS	ND	ND					
Silver	0.05	NS	ND	0.01					
Zinc	10.0	NS	0.01	ND					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

3031/METALS/MW-7.WQ2

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

Parameter	WQCC Std.	12/08/93	03/24/94	06/27/94					
Aluminum	5.0	NS	NA	0.12					
Arsenic	0.1	NS	0.22	0.08					
Barium	1.0	NS	0.52	0.70					
Cadmium	0.01	NS	ND	ND					
Chromium	0.05	NS	ND	ND					
Cobalt	0.05	NS	ND	ND					
Copper	1.0	NS	ND	0.01					
Iron	1.0	NS	NA	5.79					
Lead	0.05	NS	ND	ND					
Manganese	0.2	NS	NA	0.23					
Mercury	0.002	NS	ND	ND					
Molybdenum	1.0	NS	ND	ND					
Nickel	0.2	NS	ND	ND					
Selenium	0.05	NS	0.2	ND					
Silver	0.05	NS	ND	ND					
Zinc	10.0	NS	0.01	0.02					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94				
Aluminum	5.0	NA	NA	ND				
Arsenic	0.1	ND	ND	ND				
Barium	1.0	0.07	0.04	0.04				
Cadmium	0.01	0.014	ND	ND				
Chromium	0.05	ND	ND	ND				
Cobalt	0.05	ND	ND	ND				
Copper	1.0	ND	ND	ND				
Iron	1.0	NA	NA	4.80				
Lead	0.05	ND	ND	ND				
Manganese	0.2	NA	NA	3.20				
Mercury	0.002	ND	0.0002	ND				
Molybdenum	1.0	ND	ND	ND				
Nickel	0.2	ND	ND	ND				
Selenium	0.05	ND	ND	ND				
Silver	0.05	ND	ND	ND				
Zinc	10.0	0.01	ND	ND				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

3031/METALS/MW-9S.WQ2

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

Parameter	WQCC Std.	12/08/93	03/25/94	06/27/94					
Aluminum	5.0	NS	NA	0.10					
Arsenic	0.1	NS	0.1	0.07					
Barium	1.0	NS	1.0	1.10					
Cadmium	0.01	NS	ND	0.009					
Chromium	0.05	NS	ND	ND					
Cobalt	0.05	NS	ND	ND					
Copper	1.0	NS	ND	0.01					
Iron	1.0	NS	NA	4.68					
Lead	0.05	NS	ND	ND					
Manganese	0.2	NS	NA	0.67					
Mercury	0.002	NS	ND	ND					
Molybdenum	1.0	NS	ND	ND					
Nickel	0.2	NS	ND	ND					
Selenium	0.05	NS	ND	ND					
Silver	0.05	NS	ND	0.01					
Zinc	10.0	NS	ND	0.01					

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

MW-12
Brickland Refinery Site
Quarterly Analytical Results
 (All results in mg/l)

Parameter	WQCC Std.	12/08/93	03/23/94	06/27/94				
Aluminum	5.0	NA	NA	ND				
Arsenic	0.1	ND	0.08	ND				
Barium	1.0	0.04	0.03	0.02				
Cadmium	0.01	0.005	ND	ND				
Chromium	0.05	ND	ND	ND				
Cobalt	0.05	ND	ND	ND				
Copper	1.0	ND	ND	ND				
Iron	1.0	NA	NA	3.89				
Lead	0.05	ND	ND	ND				
Manganese	0.2	NA	NA	5.90				
Mercury	0.002	ND	ND	ND				
Molybdenum	1.0	ND	ND	ND				
Nickel	0.2	0.05	ND	ND				
Selenium	0.05	ND	0.2	ND				
Silver	0.05	0.03	ND	ND				
Zinc	10.0	ND	0.02	0.01				

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	06/28/94						
Aluminum	5.0	ND						
Arsenic	0.1	0.05						
Barium	1.0	0.67						
Cadmium	0.01	ND						
Chromium	0.05	ND						
Cobalt	0.05	ND						
Copper	1.0	ND						
Iron	1.0	4.78						
Lead	0.05	ND						
Manganese	0.2	4.13						
Mercury	0.002	ND						
Molybdenum	1.0	ND						
Nickel	0.2	0.07						
Selenium	0.05	ND						
Silver	0.05	ND						
Zinc	10.0	ND						

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

3031/METALS/MW-14.WQ2

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

Parameter	WQCC Std.	06/28/94						
Aluminum	5.0	0.32						
Arsenic	0.1	ND						
Barium	1.0	0.28						
Cadmium	0.01	ND						
Chromium	0.05	ND						
Cobalt	0.05	ND						
Copper	1.0	ND						
Iron	1.0	0.52						
Lead	0.05	ND						
Manganese	0.2	1.06						
Mercury	0.002	ND						
Molybdenum	1.0	ND						
Nickel	0.2	ND						
Selenium	0.05	ND						
Silver	0.05	ND						
Zinc	10.0	ND						

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

MW-16
Brickland Refinery Site
Quarterly Analytical Results
(All results in mg/l)

Parameter	WQCC Std.	06/28/94						
Aluminum	5.0	ND						
Arsenic	0.1	ND						
Barium	1.0	0.31						
Cadmium	0.01	ND						
Chromium	0.05	ND						
Cobalt	0.05	ND						
Copper	1.0	ND						
Iron	1.0	ND						
Lead	0.05	ND						
Manganese	0.2	2.77						
Mercury	0.002	ND						
Molybdenum	1.0	ND						
Nickel	0.2	ND						
Selenium	0.05	ND						
Silver	0.05	ND						
Zinc	10.0	ND						

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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

Parameter	WQCC Std.	06/28/94						
Aluminum	5.0	0.05						
Arsenic	0.1	ND						
Barium	1.0	1.24						
Cadmium	0.01	ND						
Chromium	0.05	ND						
Cobalt	0.05	ND						
Copper	1.0	ND						
Iron	1.0	0.21						
Lead	0.05	ND						
Manganese	0.2	3.16						
Mercury	0.002	ND						
Molybdenum	1.0	ND						
Nickel	0.2	0.05						
Selenium	0.05	ND						
Silver	0.05	ND						
Zinc	10.0	ND						

Detection Limits (mg/l):

Aluminum	0.05	Copper	0.01	Molybdenum	0.05
Arsenic	0.05	Iron	0.03	Nickel	0.04
Barium	0.01	Lead	0.05	Selenium	0.1
Cadmium	0.005	Mercury	0.0002	Silver	0.01
Chromium	0.01	Manganese	0.01	Zinc	0.01
Cobalt	0.03				

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

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Brickland Refinery
Groundwater Monitoring Summary
Detections vs. Sampling Events
(All concentrations in mg/l)
* Analyte not detected in duplicate sample

	Al	Conc. Range	As	Conc. Range	Ba	Conc. Range	Cd	Conc. Range	Cr	Conc. Range	Co	Conc. Range
MW-1	3/3	0.1-1.20	1/5	0.07	5/5	0.11-0.18	0/5		0/5		0/5	
MW-2	1/3	0.12	1/4	0.05	2/4	0.01-0.03	0/4		1/4	0.01	0/4	
MW-3S	3/3	0.13-2.32	1/5	0.08	5/5	0.08-0.13	0/5		0/5		0/5	
MW-3D	3/3	0.09-0.23	0/5		5/5	0.04-0.06	1/5	0.006	0/5		0/5	
MW-4	2/3	0.11-0.12	2/4*	0.07-0.11	4/4	0.05-0.39	0/4		1/4*	0.01*	0/4	
MW-5	2/3	0.06-0.12	2/4	0.08-0.13	4/4	0.18-0.25	0/4		0/4		0/4	
MW-6S	3/3	0.08-0.1	4/5	0.08-0.48	5/5	0.04-1.16	0/5		0/5		0/5	
MW-6D	3/3	0.06-0.09	0/5		5/5	0.02-0.05	1/5	0.029	0/5		0/5	
MW-7	3/3	0.07-0.11	2/4	0.08-0.28	4/4	0.22-0.41	0/4		0/4		0/4	
MW-8	3/3	0.12-0.21	4/4	0.08-0.22	4/4	0.52-0.74	0/4		0/4		0/4	
MW-9S	2/3	0.06-0.12	0/5		5/5	0.04-0.7	3/5	0.005-0.014	0/5		0/5	
MW-11	3/3	0.09-0.12	4/4	0.05-0.15	4/4	0.84-1.10	2/4	0.009	0/4		0/4	
MW-12	2/3	0.08-0.23	1/5	0.08	5/5	0.02-0.11	2/5	0.005-0.009	1/5	0.05	0/5	
MW-14	2/3	0.08-0.2	2/3	0.05-0.17	3/3	0.22-0.78	0/3		0/3		0/3	
MW-15	3/3	0.32-0.42	1/3	0.14	3/3	0.28-0.78	0/3		0/3		0/3	
MW-16	2/3	0.11-0.12	1/3	0.05	3/3	0.07-0.31	0/3		0/3		0/3	
MW-17	3/3	0.05-0.22	1/3	0.44	3/3	0.42-2.11	0/3		1/3*	0.01*	1/3	0.03
All Wells	43/51	0.05-2.32	27/71	0.05-0.48	69/71	0.01-2.11	9/71	0.005-0.029	4/71	0.01-0.05	1/71	0.03
Up-Grad.	6/9	0.08-0.23	4/14	0.05-0.08	12/14	0.01-0.18	2/14	0.005-0.009	2/14	0.01-0.05	0/14	
Interior	14/27	0.05-0.42	19*/32	0.05-0.44	32/32	0.05-2.11	2/32	0.009	2*/32	0.01	1/32	0.03
Off-Site	23/15	0.06-2.32	6/25	0.08-0.48	25/25	0.02-1.16	5/25	0.005-0.029	0/25		0/25	

WOCC Standards (mg/l):

Aluminum 5.0 Cadmium 0.01
Arsenic 0.1 Chromium 0.05
Barium 1.0 Cobalt 0.05

Up-Grad. = MW-1, MW-2, MW-12
Interior = MW-4, MW-5, MW-7, MW-8, MW-11
MW-14, MW-15, MW-16, MW-17
Off-site = MW-3S, MW-3D, MW-6S, MW-6D, MW-9S

Brickland Refinery
Groundwater Monitoring Summary
Detections vs. Sampling Events
 (All concentrations in mg/l)
 * Analyte not detected in duplicate sample

	Cu	Conc. Range	Fe	Conc. Range	Pb	Conc. Range	Mn	Conc. Range	Hg	Conc. Range	Mo	Conc. Range
MTW-1	2/5	0.01-0.02	3/3	0.03-1.96	0/5		3/3	0.21-1.42	0/5		0/5	
MTW-2	1/4	0.01	3/3	0.05-1.83	0/4		3/3	1.95-8.07	0/4		0/4	
MTW-3S	2/5	0.01	3/3	0.12-3.91	0/5		3/3	0.06-1.12	0/5		0/5	
MTW-3D	2/5	0.01-0.02	3/3	0.08-2.41	0/5		3/3	1.27-3.25	0/5		0/5	
MTW-4	0/4		3/3	0.86-1.99	0/4		3/3	2.43-3.21	0/4		0/4	
MTW-5	0/4		3/3	0.06-0.17	0/4		3/3	0.01-0.03	0/4		0/4	
MTW-6S	1/5	0.02	3/3	1.88-4.78	0/5		3/3	0.46-1.08	1/5	0.0003	0/5	
MTW-6D	2/5	0.01-0.02	3/3	0.11-1.30	0/5		3/3	2.19-4.20	0/5		0/5	
MTW-7	0/4		3/3	0.45-1.92	0/4		3/3	0.64-0.87	2/4	0.0005	0/4	
MTW-8	3/4	0.01-0.02	3/3	2.06-5.79	0/4		3/3	0.18-0.23	0/4		0/4	
MTW-9S	0/5		3/3	2.25-4.80	0/5		3/3	2.30-3.20	1/5	0.0002	0/5	
MTW-11	1/4	0.01	3/3	1.58-4.68	0/4		3/3	0.51-0.75	1/4	0.0003	0/4	
MTW-12	2/5	0.01-0.02	3/3	1.10-5.85	0/5		3/3	5.90-10.8	0/5		1/5	0.05
MTW-14	0/3		3/3	4.78-13.1	0/3		3/3	4.13-7.59	2/3	0.0009-0.0024	0/3	
MTW-15	0/3		3/3	0.52-3.69	0/3		3/3	1.06-2.9	0/3		0/3	
MTW-16	0/3		2/3	1.70-2.05	0/3		3/3	2.77-5.21	0/3		0/3	
MTW-17	1/3*	0.01*	3/3	0.21-9.7	0/3		3/3	3.16-8.48	0/3		0/3	
All Wells	17/71	0.01-0.02	50/51	0.03-13.1	0/71		51/51	0.01-10.8	7/71	0.0002-0.0024	1/71	0.05
Up-Grad.	5/14	0.01-0.02	9/9	0.03-5.85	0/14		9/9	0.21-10.8	1/14	0.0002	1/14	0.05
Interior	4/32	0.01-0.02	26/27	0.06-13.1	0/32		27/27	0.01-8.48	5/32	0.0003-0.0024	0/32	
Off-Site	7/25	0.01-0.02	15/15	0.08-4.8	0/25		15/15	0.06-4.2	2/25	0.0002-0.0003	0/25	

WOCC Standards (mg/l):

Copper 1.0 Manganese 0.2
 Iron 1.0 Mercury 0.0002
 Lead 0.05 Molybdenum 1.0

Up-Grad. = MTW-1, MTW-2, MTW-12
 Interior = MTW-4, MTW-5, MTW-7, MTW-8, MTW-11
 MTW-14, MTW-15, MTW-16, MTW-17
 Off-site = MTW-3S, MTW-3D, MTW-6S, MTW-6D, MTW-9S

Brickland Refinery
Groundwater Monitoring Summary
Detections vs. Sampling Events
(All concentrations in mg/l)
* Analyte not detected in duplicate sample

	Ni	Conc. Range	Se	Conc. Range	Ag	Conc. Range	Zn	Conc. Range
MW-1	0/5		1/5	0.1	0/5		1/5	0.01
MW-2	0/4		0/4		0/4		1/4	0.03
MW-3S	0/5		1/5	0.1	0/5		1/5	0.09
MW-3D	1/5	0.04	1/5	0.1	1/5	0.01	2/5	0.01-0.02
MW-4	0/4		0/4		0/4		1/4	0.01
MW-5	0/4		1/4	0.1	0/4		1/4	0.02
MW-6S	1/5	0.04	1/5	0.1	1/5	0.01	3/5	0.01-0.02
MW-6D	2/5	0.04	0/5		0/5		2/5	0.02
MW-7	0/4		0/4		1/4	0.01	2/4	0.01
MW-8	0/4		1/4	0.2	1/4	0.01	4/4	0.01-0.03
MW-9S	0/5		0/5		1/5	0.01	2/5	0.01
MW-11	0/4		0/4		1/4	0.01	2/4	0.01
MW-12	1/5	0.05	2/5	0.2-0.4	2/5	0.03	3/5	0.01-0.04
MW-14	1/3	0.07	0/3		1/3	0.02	1/3	0.02
MW-15	0/3		0/3		2/3	0.02-0.09	1/3	0.01
MW-16	2/3	0.05-0.06	0/3		0/3		1/3	0.02
MW-17	1/3	0.05	1/3*	0.01*	1/3	0.02	1/3	0.02
All Wells	9/71	0.04-0.07	9/71	0.01-0.4	12/71	0.01-0.09	29/71	0.01-0.09
Up-Grad.	1/14	0.05	3/14	0.1-0.4	2/14	0.03	5/14	0.01-0.04
Interior	4/32	0.05-0.07	3*/32	0.01-0.2	7/32	0.01-0.09	10/32	0.01-0.09
Off-Site	4/25	0.04	3/25	0.1	3/25	0.01	12/25	0.01-0.03

WQCC Standards (mg/l):
Nickel 0.2 Silver 0.05
Selenium 0.05 Zinc 10.0

Up-Grad. = MW-1, MW-2, MW-12
Interior = MW-4, MW-5, MW-7, MW-8, MW-11
MW-14, MW-15, MW-16, MW-17
Off-site = MW-3S, MW-3D, MW-6S, MW-6D,

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BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
4TH QUARTER (DEC. 1994)
(All results in mg/l)

* Not detected in duplicate sample

PARAMETER	MW-1	MW-2	MW-3S	MW-3D	MW-4	MW-5	MW-6S	MW-6D	MW-7	MW-8	MW-9S	MW-11	MW-12
<u>Metals</u>													
Aluminum	0.10		0.13	0.09	0.12	0.06	0.08	0.07	0.10	0.19	0.06	0.09	0.08
Arsenic						0.13	0.08			0.14		0.05	
Barium	0.12		0.08	0.04	0.17	0.22	0.73	0.03	0.41	0.68	0.04	0.84	0.03
Cadmium				0.006									
Chromium													
Cobalt													
Copper	0.02	0.01	0.01	0.01				0.01		0.02			0.02
Iron	0.03	0.18	0.12	0.08	1.99	0.09	1.88	0.11	0.45	2.06	2.25	1.58	1.10
Lead													
Manganese	0.21	1.95	0.06	1.27	2.43	0.03	0.46	2.19	0.64	0.18	2.30	0.51	6.18
Mercury									0.0006				
Molybdenum													
Nickel													
Selenium													
Silver													
Zinc							0.01			0.01			
<u>Cations/Anions</u>													
Calcium	86.9	950	97.7	367	298	503	150	379	229	60.0	255	93.4	975
Magnesium	25.8	391	39.8	207	219	184	82.3	177	77.4	36.4	88.9	60.8	366
Potassium	5.7	37	8.5	17	27	21	14	16	15	13.1	11	12	27
Sodium	137	3130	985	3210	2360	3070	1840	3410	1100	1870	1520	985	4060
Bicarbonate	464	688	854	464	1020	1830	2710	525	1500	2940	866	1980	586
Chloride	116	3240	1250	4800	4680	2430	2180	5210	1570	831	1440	924	14,000
Nitrate (N)	0.3	0.3	0.3	0.7		1.1		1.0	5.1	5.5	0.4	0.2	3.1
Sulfate	139	2470	573	2270	3060	705	209	2490	333	72	978	35	2490

**BRICKLAND REFINERY SITE
GROUNDWATER MONITORING SUMMARY
4TH. QUARTER (DEC. 1994)**

(All results in mg/l)

* Not detected in duplicate sample

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BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
4TH. QUARTER (DEC. 1994)

(All results in ug/l)

PARAMETER	MW-1	MW-2	MW-3S	MW-3D	MW-4	MW-5	MW-6S	MW-6D	MW-7	MW-8	MW-9S	MW-11	MW-12
<u>PAH'S</u>													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND	ND	ND	71	ND	ND	ND	42	ND	69	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND	22	ND	ND	ND	54	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	46	ND	ND	ND	140	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	ND

2NDPAHL.WQ2

BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
4TH QUARTER (DEC. 1994)

(All results in ug/l)

PARAMETER	MTW-14	MTW-15	MTW-16	MTW-17														
PAHS																		
Acenaphthene	ND	ND	ND	ND														
Acenaphthylene	ND	ND	ND	ND														
Anthracene	ND	ND	ND	ND														
Benzo(a)anthracene	ND	ND	ND	ND														
Benzo(b)fluoranthene	ND	ND	ND	ND														
Benzo(k)fluoranthene	ND	ND	ND	ND														
Benzo(g,h,i)perylene	ND	ND	ND	ND														
Benzo(a)pyrene	ND	ND	ND	ND														
Chrysene	ND	ND	ND	ND														
Dibenzo(a,h)anthracene	ND	ND	ND	ND														
Fluoranthene	ND	ND	ND	ND														
Fluorene	ND	ND	ND	ND														
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND														
1-Methylnaphthalene	ND	47	ND	ND														
2-Methylnaphthalene	ND	ND	ND	ND														
Naphthalene	ND	37	ND	ND														
Phenanthrene	ND	ND	ND	ND														
Pyrene	ND	ND	ND	ND														

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BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
4TH QUARTER (DEC. 1994)

(All results in ug/l)

PARAMETER	MW-1	MW-2	MW-3S	MW-3D	MW-4	MW-5	MW-6S	MW-6D	MW-7	MW-8	MW-9S	MW-11	MW-12
<u>Phenols</u>													
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND
<u>BTEX/TPH</u>													
Benzene	ND	ND	ND	ND	220	4600	59	ND	36	5300	ND	15	ND
Toluene	ND	ND	ND	ND	ND	84	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND	ND	140	ND	ND	ND	140	ND	2.5	ND

BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
4TH. QUARTER (DEC. 1994)

(All results in ug/l)

PARAMETER	MW-14	MW-15	MW-16	MW-17															
<u>Phenols</u>																			
2,4,6-Trichlorophenol	ND	ND	ND	ND															
2,4-Dichlorophenol	ND	ND	ND	ND															
2,4-Dimethylphenol	ND	ND	ND	ND															
2,4-Dinitrophenol	ND	ND	ND	ND															
2-Chlorophenol	ND	ND	ND	ND															
2-Nitrophenol	ND	ND	ND	ND															
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND															
4-Chloro-3-methylphenol	ND	ND	ND	ND															
4-Nitrophenol	ND	ND	ND	ND															
Pentachlorophenol	ND	ND	ND	ND															
Phenol	54	ND	ND	ND															
<u>BTEX/TPH</u>																			
Benzene	930	290	ND	460															
Toluene	ND	ND	ND	ND															
Ethyl benzene	ND	ND	ND	10															
Xylenes	ND	ND	ND	10															