

AP - 001

ANNUAL MONITORING REPORT

YEAR(S):

1995 - Jun-Sept.



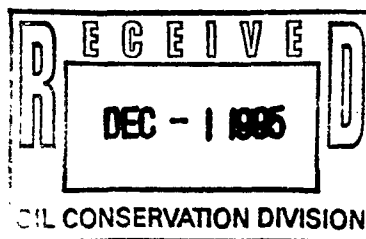
Environmental Science
and Engineering

A BDM International Company

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

November 30, 1995

Bill Olson
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505



Dear Mr. Olson:

Enclosed you will find the analytical results for the 6th and 7th quarterly groundwater sampling events for June and September 1995, respectively. If you have any questions please feel free to contact me or Mr. Michael Selke at (505) 842-0001.

Sincerely,
Geoscience Consultants, Ltd. (GCL)

Trent H. Thomas
Program Manager

\QTRSUM.LTR

Enclosures

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
6th Quarter (June 1995)
(all results in ug/l)

Parameter	MW-3S	MW-3D	MW-6S	MW-6D	MW-9S	MW-14	MW-15	MW-16	MW-17
PAHs									
Acenaphthene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	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
Benzo(a)pyrene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Fluorene	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
1-Methylnaphthalene	ND	ND	ND,ND	ND	ND	12	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	15,10	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND,ND	ND	ND	ND	ND	ND	ND

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
6th Quarter (June 1995)
(all results in ug/l)

Parameter	MW-3S	MW-3D	MW-4	MW-6S	MW-6D	MW-9S	MW-14	MW-15	MW-16	MW-17
Phenols										
4-Chloro-3-methylphenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
2-Chlorophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
2,4-Dichlorophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
2,4-Dimethylphenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
2,4-Dinitrophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
4,6-Dinitro-2-methylphenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
2-Nitrophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
4-Nitrophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
Pentachlorophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
Phenol	ND	ND		ND, ND	ND	ND	19	ND		ND
2,4,6-Trichlorophenol	ND	ND		ND, ND	ND	ND	ND	ND		ND
BTEX										
Benzene	ND	ND	800	220,220	ND, ND	ND	10000	21	ND	1500
Toluene	ND	ND	ND	ND, ND	ND, ND	ND	ND	0.5	ND	ND
Ethyl Benzene	ND	ND	12	180,150	ND, ND	ND	ND	ND	ND	54
Xylenes	ND	ND	ND	260,210	ND, ND	ND	ND	0.6	ND	29

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BRICKLAND REFINERY SITE
QUARTERLY GROUNDWATER MONITORING SUMMARY
6th. QUARTER (June 1995)

(All results in ug/l)

PARAMETER	WP-1	WP-2	WP-3	WP-4	WP-5	WP-6	WP-7	WP-8	WP-9	WP-10	WP-12	WP-13	WP-15
<u>BTEX</u>													
Benzene	NS	800	ND	5.4	7700	10000	ND	5600	4300	800	94	170	ND
Toluene	NS	380	ND	0.9	ND	ND	ND	ND	82	91	3	12	ND
Ethyl benzene	NS	68	ND	ND	ND	380	ND	ND	180	42	38	160	ND
Xylenes	NS	109	ND	2.3	ND	ND	ND	ND	380	46	5	150	ND

PARAMETER	WP-16	WP-17	WP-18	WP-19	WP-20	WP-21	WP-22	WP-23	WP-24	WP-26d	WP-27d	WP-28	WP-29
<u>BTEX</u>													
Benzene	12	5400	7	16000	2000	21000	1500	ND	200	81	880	2600	1200
Toluene	ND	81	ND	ND	ND	ND	ND	ND	ND	6	60	ND	54
Ethyl benzene	0.8	110	ND	730	ND	1000	36	ND	ND	ND	240	ND	44
Xylenes	ND	ND	ND	320	ND	nd	ND	ND	ND	44	240	ND	49

Note: ND = Not Detected, NA = Not Analyzed, NS = Not Sampled.

Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
7th Quarter (Sept. 1995)
(all results in ug/l)

Parameter	MW-3S	MW-3D	MW-5	MW-6S	MW-6D	MW-8	MW-9S	MW-11	MW-14
PAHs									
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	140	ND
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	140	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Parameter	MW-15	MW-17							
PAHs									
Acenaphthene	ND	ND							
Acenaphthylene	ND	ND							
Anthracene	ND	ND							
Benzo(a)anthracene	ND	ND							
Benzo(b)fluoranthene	ND	ND							
Benzo(k)fluoranthene	ND	ND							
Benzo(g,h,i)perylene	ND	ND							
Benzo(a)pyrene	ND	ND							
Chrysene	ND	ND							
Dibenzo(a,h)anthracene	ND	ND							
Fluoranthene	ND	ND							
Fluorene	ND	ND							
Indeno(1,2,3-cd)pyrene	ND	ND							
1-Methylnaphthalene	ND	ND							
2-Methylnaphthalene	ND	ND							
Naphthalene	ND	ND							
Phenanthrene	ND	ND							
Pyrene	ND	ND							

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
7th Quarter (Sept. 1995)
(all results in ug/l)

Parameter	MW-3S	MW-3D	MW-4	MW-5	MW-6S	MW-6D	MW-7	MW-8	MW-9S	MW-11
Phenols										
4-Chloro-3-methylphenol	ND	ND		ND	ND	ND		ND	ND	ND
2-Chlorophenol	ND	ND		ND	ND	ND		ND	ND	ND
2,4-Dichlorophenol	ND	ND		ND	ND	ND		ND	ND	ND
2,4-Dimethylphenol	ND	ND		ND	ND	ND		ND	ND	ND
2,4-Dinitrophenol	ND	ND		ND	ND	ND		ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND		ND	ND	ND		ND	ND	ND
2-Nitrophenol	ND	ND		ND	ND	ND		ND	ND	ND
4-Nitrophenol	ND	ND		ND	ND	ND		ND	ND	ND
Pentachlorophenol	ND	ND		ND	ND	ND		ND	ND	ND
Phenol	ND	ND		ND	ND	ND		ND	ND	ND
2,4,6-Trichlorophenol	ND	ND		ND	ND	ND		ND	ND	ND
BTEX										
Benzene	ND	ND	2200	4400	180	ND	4.9	13000	ND	80
Toluene	ND	ND	ND	ND	120	ND	ND	300	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND	30	ND	ND	800	ND	10

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Brickland Refinery Site
Quarterly Groundwater Monitoring Summary
7th Quarter (Sept. 1995)
(all results in ug/l)

Parameter	MW-14	MW-15	MW-16	MW-17					
Phenols									
4-Chloro-3-methylphenol	ND	ND		ND					
2-Chlorophenol	ND	ND		ND					
2,4-Dichlorophenol	ND	ND		ND					
2,4-Dimethylphenol	ND	ND		ND					
2,4-Dinitrophenol	ND	ND		ND					
4,6-Dinitro-2-methylphenol	ND	ND		ND					
2-Nitrophenol	ND	ND		ND					
4-Nitrophenol	ND	ND		ND					
Pentachlorophenol	ND	ND		ND					
Phenol	ND	ND		ND					
2,4,6-Trichlorophenol	ND	ND		ND					
BTEX									
Benzene	5.7	90	ND	390					
Toluene	ND	ND	ND	ND					
Ethyl Benzene	ND	ND	ND	ND					
Xylenes	ND	ND	ND	ND					

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CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 951428
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 07/10/95

Linda L. Benkers
Signature

7-10-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC COORDINATOR

A

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

No 8373

Chain of Custody

Date 6/21/95 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	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCF-P, Vol, Semi-Vol. Herbicides, Pesticides	TCF-P, Metals	RCRA Metals (9)	Priority Pollutant Metals (13)	CAM Metals (18) TML/CSTLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers
9506210900	H2O	WP-1	✓	3																					3
9506210945	H2O	WP-3		3																					3
9506211030	H2O	WP-12		3																					3
9506211045	H2O	WP-13		3																					3
9506211055	H2O	WP-29		3																					3
9506211110	H2O	WP-21		3																					3
9506211120	H2O	WP-23		3																					3
9506211130	H2O	WP-4		3																					3
9506211145	H2O	WP-6		3																					3
9506211205	H2O	WP-5		3																					3

Project Information		Sample Receipt	
Project	PEXENE	Total No. of Containers	30
Project Director	TRENT	Chain of Custody Seals	OK
Charge Code No.	3031-006	Rec'd Good Condition/Cold	OK
Shipping ID. No.		Conforms to Record	OK
3238365712		Lab No.	951428
Via: FED X			
Special Instructions/Comments:			
1. Relinquished By		2. Relinquished By	
Signature: <u>DAVID NEE</u> (Time) <u>1535</u>		Signature: <u>Amgman</u> (Time) <u>1100</u>	
(Printed Name) <u>DAVID NEE</u> (Date) <u>6/21/95</u>		(Printed Name) <u>Amgman</u> (Date) <u>6/21/95</u>	
Company: <u>GCL</u>		Company: <u>COPE</u>	
Received By		Received By (Laboratory)	
Signature: <u>DAVID NEE</u> (Time) <u>1535</u>		Signature: <u>Amgman</u> (Time) <u>1100</u>	
(Printed Name) <u>DAVID NEE</u> (Date) <u>6/21/95</u>		(Printed Name) <u>Amgman</u> (Date) <u>6/21/95</u>	
Company: <u>GCL</u>		Company: <u>COPE</u>	

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 09:00

WORK DESCRIPTION: 9506210900

LABORATORY I.D.: 951428-0001

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-2 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	06/30/95	DMJ
Benzene	800 ✓	25 ✓	ug/L			
Toluene	380	25	ug/L			
Ethyl benzene	68	25	ug/L			
Xylenes	150	25	ug/L			
4-Bromofluorobenzene (Surrogate)	109	0	% Recovery	89-110% Limit		
Time Analyzed	1847	0				

10703 East Bethany Drive
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(303) 751-1780



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 09:45

WORK DESCRIPTION: 9506210945

LABORATORY I.D.: 951428-0002

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-3 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/26/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	2115	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 10:30

WORK DESCRIPTION: 9506211030

LABORATORY I.D.: 951428-0003

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-12 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*5		602 (6)	06/30/95	DMJ
Benzene	94 ✓	2 ✓	ug/L			
Toluene	3	2	ug/L			
Ethyl benzene	38	2	ug/L			
Xylenes	5	2	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	1922	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 10:45

WORK DESCRIPTION: 9506211045

LABORATORY I.D.: 951428-0004

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-13 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	07/01/95	DMJ
Benzene	170 ✓	10 ✓	ug/L			
Toluene	12	10	ug/L			
Ethyl benzene	160	10	ug/L			
Xylenes	150	10	ug/L			
4-Bromofluorobenzene (Surrogate)	90	0	% Recovery	89-110% Limit		
Time Analyzed	1720	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373
DATE SAMPLED: 06/21/95
TIME SAMPLED: 10:55
WORK DESCRIPTION: 9506211055

LABORATORY I.D.: 951428-0005
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: WP-29 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	06/28/95	DMJ
Benzene	1200 ✓	25 ✓	ug/L			
Toluene	54	25	ug/L			
Ethyl benzene	44	25	ug/L			
Xylenes	49	25	ug/L			
4-Bromofluorobenzene (Surrogate)	91	0	% Recovery	89-110% Limit		
Time Analyzed	0058	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 11:10

WORK DESCRIPTION: 9506211110

LABORATORY I.D.: 951428-0006

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-21 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	06/30/95	DMJ
Benzene	21000 ✓	250 ✓	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	1000	250	ug/L			
Xylenes	ND	250	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	2032	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 11:20

WORK DESCRIPTION: 9506211120

LABORATORY I.D.: 951428-0007

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-23 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/27/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	0041	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 11:30

WORK DESCRIPTION: 9506211130

LABORATORY I.D.: 951428-0008

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-4 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/01/95	DMJ
Benzene	5.4 ✓	0.5 ✓	ug/L			
Toluene	0.9	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	2.3	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	94	0	% Recovery	89-110% Limit		
Time Analyzed	0439	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 11:45

WORK DESCRIPTION: 9506211145

LABORATORY I.D.: 951428-0009

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-6 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	06/30/95	DMJ
Benzene	10000 ✓	250 ✓	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	380	250	ug/L			
Xylenes	ND	250	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	2106	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

DATE SAMPLED: 06/21/95

TIME SAMPLED: 12:05

WORK DESCRIPTION: 9506211205

LABORATORY I.D.: 951428-0010

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-5 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	06/30/95	DMJ
Benzene	7700 ✓	250 ✓	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	ND	250	ug/L			
Xylenes	ND	250	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	2141	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK ✓

LABORATORY I.D....: 951428-0011

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)	06/26/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	99	0	% Recovery	89-110% Limit		
Time Analyzed	0932	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK ✓

LABORATORY I.D....: 951428-0012

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)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	2049	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK ✓

LABORATORY I.D....: 951428-0013

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)	06/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0929	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION...: METHOD BLANK ✓

LABORATORY I.D....: 951428-0014

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)	07/01/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	1610	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION...: METHOD BLANK ✓

LABORATORY I.D....: 951428-0015

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)	07/03/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	0947	0				

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JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/26/95 TIME ANALYZED: 07:29 METHOD: 602 (6)

QC NUMBER:332578

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/26/95 TIME ANALYZED: 07:29 METHOD: 602 (6)

QC NUMBER: 332578

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062695B	1	20.8	20.0	104	0.5	ug/L
	SBD	T062695B	1	21.5	20.0	108	0.5	ug/L
Toluene	SB	T062695B	1	20.2	20.0	101	0.5	ug/L
	SBD	T062695B	1	20.8	20.0	104	0.5	ug/L
Ethyl benzene	SB	T062695B	1	20.6	20.0	103	0.5	ug/L
	SBD	T062695B	1	21.2	20.0	106	0.5	ug/L
Xylenes	SB	T062695B	1	60.7	60.0	101	0.5	ug/L
	SBD	T062695B	1	62.7	60.0	105	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062695B	1	96	100	96	0	89-110% Limit
	SBD	T062695B	1	97	100	97	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER:332580

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	1147 1229	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER: 332580

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062795B	1	21.1	20.0	106	0.5	ug/L
	SBD	T062795B	1	20.3	20.0	102	0.5	ug/L
Toluene	SB	T062795B	1	20.4	20.0	102	0.5	ug/L
	SBD	T062795B	1	19.7	20.0	98	0.5	ug/L
Ethyl benzene	SB	T062795B	1	20.7	20.0	103	0.5	ug/L
	SBD	T062795B	1	19.9	20.0	99	0.5	ug/L
Xylenes	SB	T062795B	1	61.5	60.0	102	0.5	ug/L
	SBD	T062795B	1	59.1	60.0	98	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062795B	1	97	100	97	0	89-110% Limit
	SBD	T062795B	1	97	100	97	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER:332584

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	0819 0854	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER: 332584

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950630B	1	19.3	20.0	97	0.5	ug/L
	SBD	T950630B	1	20.2	20.0	101	0.5	ug/L
Toluene	SB	T950630B	1	20.0	20.0	100	0.5	ug/L
	SBD	T950630B	1	20.8	20.0	104	0.5	ug/L
Ethyl benzene	SB	T950630B	1	19.6	20.0	98	0.5	ug/L
	SBD	T950630B	1	20.5	20.0	102	0.5	ug/L
Xylenes	SB	T950630B	1	61.3	60.0	102	0.5	ug/L
	SBD	T950630B	1	64.2	60.0	107	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950630B	1	105	100	105	0	89-110% Limit
	SBD	T950630B	1	107	100	107	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER:332586

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	1453 1536	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER: 332586

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.5	20.0	102	0.5	ug/L
Toluene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Ethyl benzene	SB	T950701B	1	19.8	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Xylenes	SB	T950701B	1	61.8	60.0	103	0.5	ug/L
	SBD	T950701B	1	63.4	60.0	106	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950701B	1	104	100	104	0	89-110% Limit
	SBD	T950701B	1	105	100	105	0	89-110% Limit

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JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95 TIME ANALYZED: 09:12 METHOD: 602 (6)

QC NUMBER:332589

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95 TIME ANALYZED: 09:12 METHOD: 602 (6)

QC NUMBER: 332589

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	951428-7	1	20.2	0	20.0	101	0.5	ug/L
	MS	951429-9	1	22.6	0	20.0	113	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.5	0	20.0	112	0.5	ug/L
Toluene	MS	951428-7	1	19.6	0	20.0	98	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Ethyl benzene	MS	951428-7	1	19.4	0	20.0	97	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Xylenes	MS	951428-7	1	60.4	0	60.0	101	0.5	ug/L
	MS	951429-9	1	69.4	0	60.0	116	0.5	ug/L
	MS	951430-3	1	64.1	0	60.0	107	0.5	ug/L
	MS	951431-7	1	68.8	0	60.0	115	0.5	ug/L
4-Bromofluorobenzene (Surrogat	MS	951428-7	1	104	0	100	104	0	89-110% Limit
	MS	951429-9	1	108	0	100	108	0	89-110% Limit
	MS	951430-3	1	107	0	100	107	0	89-110% Limit
	MS	951431-7	1	109	0	100	109	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of 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
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Houston, TX

Code

* AN
* CA
* CC
* HP

Subcontract Laboratory

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

Code

* LC
* LB
* XX

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CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

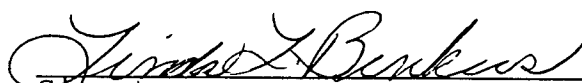
Job Number: 951431

Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 07/11/95


Signature

7-11-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



Environmental Science
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Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

No 8374

Chain of Custody

Date 6/21/95 Page 1 of 1

Lab Name		CORE LABORATORIES		Analysis Request																			
Address		10703 East Bethany Drive																					
Telephone		Aurora, CO 80014-2696																					
Sample Number		Matrix		Location																			
9506211220		H2O		WP-18																			
9506211320		H2O		WP-19																			
9506211335		H2O		WP-16																			
9506211345		H2O		WP-15																			
9506211400		H2O		WP-27d																			
9506211470		H2O		MW-15																			
9506211505		H2O		MW-95																			
9506211545		H2O		MW-6d																			
9506211550		H2O		MW-6dA																			
9506221040		H2O		Equip Blank																			

Project Information		Sample Receipt		1. Relinquished By		2. Relinquished By		3.	
Project	Director	Total No. of Containers	Chain of Custody Seals	Signature	Date	Signature	Date	Signature	Date
Project	REXNER	32	OK	DAVID NEE	6/23/95				
Charge Code No.	3031-006		OK						
Shipping ID. No.	3238365712		OK						
Via: FED X		Lab No. 951431		Received By		Received By		Received By	
				Signature		Signature		Signature	
				Date		Date		Date	
				Company		Company		Company	

Special Instructions/Comments:		Distribution: White, Canary-Laboratory • Pink, GCL	
Received 1 L Amber for PAH + Phenols also. 2218			
One container for both samples 6104604			



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 12:20

WORK DESCRIPTION: 9506211220

LABORATORY I.D.: 951431-0001

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-18 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	07/01/95	DMJ
Benzene	7 ✓	5 ✓	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	0110	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 13:20

WORK DESCRIPTION: 9506211320

LABORATORY I.D.: 951431-0002

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-19 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500 ✓		602 (6)	07/01/95	DMJ
Benzene	16000 ✓	250 ✓	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	730	250	ug/L			
Xylenes	320	250	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	1941	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374
DATE SAMPLED: 06/21/95
TIME SAMPLED: 13:35
WORK DESCRIPTION: 9506211335

LABORATORY I.D.: 951431-0003
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: WP-16 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/01/95	DMJ
Benzene	12	0.5	ug/L			
Toluene	ND ✓	0.5 ✓	ug/L			
Ethyl benzene	0.8 ✓	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0329	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 13:45

WORK DESCRIPTION: 9506211345

LABORATORY I.D.: 951431-0004

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-15 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/01/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	107	0	% Recovery	89-110% Limit		
Time Analyzed	0404	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 14:00

WORK DESCRIPTION: 9506211400

LABORATORY I.D.: 951431-0005

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-27d ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	07/01/95	DMJ
Benzene	880 ✓	50 ✓	ug/L			
Toluene	60 ✓	50	ug/L			
Ethyl benzene	240	50	ug/L			
Xylenes	240	50	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	0255	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 14:20

WORK DESCRIPTION: 9506211420

LABORATORY I.D.: 951431-0006

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-15 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/01/95	DMJ
Benzene	21 ✓	0.5 ✓	ug/L			
Toluene	0.5 ✓	0.5 ✓	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	0.6	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	1830	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/30/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND ✓	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND ✓	10	ug/L			
Nitrobenzene-d5 (Surrogate)	75	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	79	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	113	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	31	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	48	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 14:20

WORK DESCRIPTION: 9506211420

LABORATORY I.D.: 951431-0006

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-15

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	110	0	% Recovery	10-123% Limit		
Time Analyzed	1959	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 15:05

WORK DESCRIPTION: 9506211505

LABORATORY I.D.: 951431-0007

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-9s ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/27/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	98	0	% Recovery	89-110% Limit		
Time Analyzed	1515	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/30/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND ✓	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND ✓	10	ug/L			
Nitrobenzene-d5 (Surrogate)	69	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	72	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	89	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	27	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	38	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

LABORATORY I.D.: 951431-0007

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 15:05

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211505

REMARKS: MW-9s

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	105	0	% Recovery	10-123% Limit		
Time Analyzed	2056	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 15:45

WORK DESCRIPTION: 9506211545

LABORATORY I.D.: 951431-0008

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-6d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/27/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	1557	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/30/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
✓ Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
✓ Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	85	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	76	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	100	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	37	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	56	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374
DATE SAMPLED: 06/21/95
TIME SAMPLED: 15:45
WORK DESCRIPTION: 9506211545

LABORATORY I.D.: 951431-0008
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: MW-6d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	103	0	% Recovery	10-123% Limit		
Time Analyzed	2154	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/21/95

TIME SAMPLED: 15:50

WORK DESCRIPTION: 9506211550

LABORATORY I.D.: 951431-0009

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-6dA ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/30/95	DMJ
Benzene	ND ✓	0.5 ✓	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	107	0	% Recovery	89-110% Limit		
Time Analyzed	2216	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8374

DATE SAMPLED: 06/22/95

TIME SAMPLED: 10:40

WORK DESCRIPTION: 9506221040

LABORATORY I.D.: 951431-0010

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: EQUIP BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	2251	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951431-0011

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)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	0.7	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1310	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/26/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	73	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	97	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	32	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	54	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 951431-0011

DATE RECEIVED.....: / /

TIME RECEIVED.....: :

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	103	0	% Recovery	10-123% Limit		
Time Analyzed	2009	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951431-0012

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)	07/01/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	1610	0				

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LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951431-0013

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)	06/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0929	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS

07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

LABORATORY I.D....: 951431-0014

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
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/03/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	0947	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT
07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER:332580

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	1147 1229	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER: 332580

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062795B	1	21.1	20.0	106	0.5	ug/L
	SBD	T062795B	1	20.3	20.0	102	0.5	ug/L
Toluene	SB	T062795B	1	20.4	20.0	102	0.5	ug/L
	SBD	T062795B	1	19.7	20.0	98	0.5	ug/L
Ethyl benzene	SB	T062795B	1	20.7	20.0	103	0.5	ug/L
	SBD	T062795B	1	19.9	20.0	99	0.5	ug/L
Xylenes	SB	T062795B	1	61.5	60.0	102	0.5	ug/L
	SBD	T062795B	1	59.1	60.0	98	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062795B	1	97	100	97	0	89-110% Limit
	SBD	T062795B	1	97	100	97	0	89-110% Limit

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JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER:332584

B L A N K S

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER: 332584

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T9506308	1	19.3	20.0	97	0.5	ug/L
	SBD	T9506308	1	20.2	20.0	101	0.5	ug/L
Toluene	SB	T9506308	1	20.0	20.0	100	0.5	ug/L
	SBD	T9506308	1	20.8	20.0	104	0.5	ug/L
Ethyl benzene	SB	T9506308	1	19.6	20.0	98	0.5	ug/L
	SBD	T9506308	1	20.5	20.0	102	0.5	ug/L
Xylenes	SB	T9506308	1	61.4	60.0	102	0.5	ug/L
	SBD	T9506308	1	64.2	60.0	107	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T9506308	1	105	100	105	0	89-110% Limit
	SBD	T9506308	1	107	100	107	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL REPORT
07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER:332586

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB SBD	1453 1536	1 1	0 0	0 0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER: 332586

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.5	20.0	102	0.5	ug/L
Toluene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Ethyl benzene	SB	T950701B	1	19.8	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Xylenes	SB	T950701B	1	61.8	60.0	103	0.5	ug/L
	SBD	T950701B	1	63.4	60.0	106	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950701B	1	104	100	104	0	89-110% Limit
	SBD	T950701B	1	105	100	105	0	89-110% Limit

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ATTN:

QC NUMBER:332589

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951431

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95

TIME ANALYZED: 09:12

METHOD: 602 (6)

QC NUMBER: 332589

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	951428-7	1	20.2	0	20.0	101	0.5	ug/L
	MS	951429-9	1	22.6	0	20.0	113	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.5	0	20.0	112	0.5	ug/L
Toluene	MS	951428-7	1	19.6	0	20.0	98	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Ethyl benzene	MS	951428-7	1	19.4	0	20.0	97	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Xylenes	MS	951428-7	1	60.4	0	60.0	101	0.5	ug/L
	MS	951429-9	1	69.4	0	60.0	116	0.5	ug/L
	MS	951430-3	1	64.1	0	60.0	107	0.5	ug/L
	MS	951431-7	1	68.7	0	60.0	114	0.5	ug/L
4-Bromofluorobenzene (Surrogat	MS	951428-7	1	104	0	100	104	0	89-110% Limit
	MS	951429-9	1	108	0	100	108	0	89-110% Limit
	MS	951430-3	1	107	0	100	107	0	89-110% Limit
	MS	951431-7	1	109	0	100	109	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of 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

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

Subcontract Laboratory

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

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CORE LABORATORIES

CORE LABORATORIES ANALYTICAL REPORT

Job Number: 951430
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 07/13/95


Signature

7-13-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator



Environmental Science
and Engineering
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Albuquerque, NM 87102
(505) 842-0001
FAX: (505) 842-0595

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

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

No 9051

Chain of Custody

Date 6/21/95 Page 1 of 1

Lab Name <u>CORE LABORATORIES</u>		Analysis Request																						
Address <u>10703 East Bethany Drive</u>																								
Aurora, CO 80014-2696																								
Telephone <u>303/751-1780</u>																								
Samplers (SIGNATURES) <u>D. [Signature]</u>																								
Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 603/8040	Pesticides/PCB 604/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1 TPH/BTEX Modified 8015	TCLP - Vol., Semi-Vol. Herbicides, Pesticides	TCLP - Metals	RCRA Metals (6)	Priority Pollutant Metals (13)	CAM Metals (18) T1C/ST1C	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers
9506211610	H2O	MW-6025	✓	3	✓		✓																	4
9506211620	H2O	MW-65A	✓	3	✓		✓																	4
9506211725	H2O	MW-3d	✓	3	✓		✓																	4
9506211735	H2O	MW-3s	✓	3	✓		✓																	4
9506211810	H2O	MW-16	✓	3	✓		✓																	3
9506220750	H2O	MW-14	✓	3	✓		✓																	4
9506220815	H2O	MW-17	✓	3	✓		✓																	4
9506220820	H2O	MW-4	✓	3	✓		✓																	3
9506220915	H2O	WP-9	✓	3																				3
9506220920	H2O	WP-8	✓	3																				3

Project Information		Sample Receipt		Relinquished By		Relinquished By		Relinquished By	
Project	REXENE	Total No. of Containers	30	Signature	DAVID NEE	Signature	DAVID NEE	Signature	DAVID NEE
Project Director	TRENT T.	Chain of Custody Seals	OK	(Printed Name)	DAVID NEE	(Printed Name)	DAVID NEE	(Printed Name)	DAVID NEE
Charge Code No.		Rec'd Good Condition/Cold	OK	(Date)	6/22/95	(Date)	6/22/95	(Date)	6/22/95
Shipping ID. No.	328365712	Conforms to Record	OK	(Company)	GCL	(Company)	GCL	(Company)	GCL
Via:	FED X	Lab No.	951420	Received By		Received By		Received By	
Special Instructions/Comments:				(Signature)		(Signature)		(Signature)	
				(Printed Name)		(Printed Name)		(Printed Name)	
				(Date)		(Date)		(Date)	
				(Company)		(Company)		(Company)	

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

July 13, 1995

Customer: Geoscience Consultants, Ltd.

Project: Rexene COC 9051

Core Laboratories Project Number: 951430

Method 8270 GC/MS Organics

The spike blank and spike blank duplicate analyzed with this set of samples had recovery of 4-nitrophenol at 96% and 95% respectively with acceptance criteria set at 10-80%.

A handwritten signature in cursive script, reading "Linda L. Benkers".

Linda L. Benkers
QA/QC Coordinator

A handwritten signature in cursive script, reading "James H. Travis".

James H. Travis
Laboratory Supervisor



CORE LABORATORIES

LABORATORY TESTS RESULTS

07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 16:10

WORK DESCRIPTION: 9506211610

LABORATORY I.D.: 951430-0001

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	07/01/95	DMJ
Benzene	220	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	180	50	ug/L			
Xylenes	260	50	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	0733	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/30/95	MLA
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	15	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	94	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	51	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	77	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	85	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	23	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 16:10

WORK DESCRIPTION: 9506211610

LABORATORY I.D.: 951430-0001

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-6S

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	105	0	% Recovery	10-123% Limit		
Time Analyzed	2252	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 16:20

WORK DESCRIPTION: 9506211620

LABORATORY I.D.: 951430-0002

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-6SA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	07/01/95	DMJ
Benzene	220	50	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	150	50	ug/L			
Xylenes	210	50	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0808	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/30/95	MLA
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	10	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	85	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	46	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	93	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	71	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	35	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS

07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #9051

DATE SAMPLED.....: 06/21/95

TIME SAMPLED.....: 16:20

WORK DESCRIPTION...: 9506211620

LABORATORY I.D...: 951430-0002

DATE RECEIVED.....: 06/23/95

TIME RECEIVED.....: 11:00

REMARKS.....: MW-6SA

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	88	0	% Recovery	10-123% Limit		
Time Analyzed	2349	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 17:25

WORK DESCRIPTION: 9506211725

LABORATORY I.D.: 951430-0003

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-3d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	1352	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/26/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	73	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	68	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	99	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	33	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	48	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 17:25

WORK DESCRIPTION: 9506211725

LABORATORY I.D.: 951430-0003

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-3d

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	73	0	% Recovery	10-123% Limit		
Time Analyzed	2302	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/21/95

TIME SAMPLED: 17:35

WORK DESCRIPTION: 9506211735

LABORATORY I.D.: 951430-0004

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-3s

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	100	0	% Recovery	89-110% Limit		
Time Analyzed	1434	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/29/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	64	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	55	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	80	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	68	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	43	0	% Recovery	21-100% Limit		

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JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....: REXENE COC #9051

DATE SAMPLED.....: 06/21/95

TIME SAMPLED.....: 17:35

WORK DESCRIPTION...: 9506211735

LABORATORY I.D...: 951430-0004

DATE RECEIVED.....: 06/23/95

TIME RECEIVED.....: 11:00

REMARKS.....: MW-3s

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051
DATE SAMPLED: 06/21/95
TIME SAMPLED: 18:10
WORK DESCRIPTION: 9506211810

LABORATORY I.D.: 951430-0005
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: MW-16

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/01/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1906	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051
DATE SAMPLED: 06/22/95
TIME SAMPLED: 07:50
WORK DESCRIPTION: 9506220750LABORATORY I.D.: 951430-0006
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	07/01/95	DMJ
Benzene	10000	250	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	ND	250	ug/L			
Xylenes	ND	250	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	2016	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/28/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	12	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	19	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	69	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	64	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	105	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	32	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	47	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051
DATE SAMPLED: 06/22/95
TIME SAMPLED: 07:50
WORK DESCRIPTION: 9506220750

LABORATORY I.D.: 951430-0006
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: MW-14

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	89	0	% Recovery	10-123% Limit		
Time Analyzed	1712	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/22/95

TIME SAMPLED: 08:15

WORK DESCRIPTION: 9506220815

LABORATORY I.D.: 951430-0007

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	07/01/95	DMJ
Benzene	1500	25	ug/L			
Toluene	ND	25	ug/L			
Ethyl benzene	54	25	ug/L			
Xylenes	29	25	ug/L			
4-Bromofluorobenzene (Surrogate)	97	0	% Recovery	89-110% Limit		
Time Analyzed	2125	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/28/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	85	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	66	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	116	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	27	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	45	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/22/95

TIME SAMPLED: 08:15

WORK DESCRIPTION: 9506220815

LABORATORY I.D.: 951430-0007

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: MW-17

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	88	0	% Recovery	10-123% Limit		
Time Analyzed	1809	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051
DATE SAMPLED: 06/22/95
TIME SAMPLED: 08:20
WORK DESCRIPTION: 9506220820

LABORATORY I.D.: 951430-0008
DATE RECEIVED: 06/23/95
TIME RECEIVED: 11:00
REMARKS: MW-4

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	07/01/95	DMJ
Benzene	800	10	ug/L			
Toluene	ND	10	ug/L			
Ethyl benzene	12	10	ug/L			
Xylenes	ND	10	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	2345	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:15

WORK DESCRIPTION: 9506220915

LABORATORY I.D.: 951430-0009

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-9

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	07/01/95	DMJ
Benzene	4300	50	ug/L			
Toluene	82	50	ug/L			
Ethyl benzene	180	50	ug/L			
Xylenes	380	50	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	2051	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:20

WORK DESCRIPTION: 9506220920

LABORATORY I.D.: 951430-0010

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-8

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*500		602 (6)	07/03/95	DMJ
Benzene	5600	250	ug/L			
Toluene	ND	250	ug/L			
Ethyl benzene	ND	250	ug/L			
Xylenes	ND	250	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	2126	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951430-0011

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)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	0.7	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	1310	0				
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/26/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	73	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	65	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	97	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	32	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	54	0	% Recovery	21-100% Limit		

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951430-0011

DATE RECEIVED.....: / /

TIME RECEIVED.....: :

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	103	0	% Recovery	10-123% Limit		
Time Analyzed	2009	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951430-0012

DATE RECEIVED.....: / /

TIME RECEIVED.....: :

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
PAH AND PHENOLS LIST BY 8270		*1		8270 (2)	06/29/95	MLA
Acenaphthene	ND	10	ug/L			
Acenaphthylene	ND	10	ug/L			
Anthracene	ND	10	ug/L			
Benzo(a)anthracene	ND	10	ug/L			
Benzo(b)fluoranthene	ND	10	ug/L			
Benzo(k)fluoranthene	ND	10	ug/L			
Benzo(ghi)perylene	ND	10	ug/L			
Benzo(a)pyrene	ND	10	ug/L			
Chrysene	ND	10	ug/L			
Dibenzo(a,h)anthracene	ND	10	ug/L			
Fluoranthene	ND	10	ug/L			
Fluorene	ND	10	ug/L			
Indeno(1,2,3-cd)pyrene	ND	10	ug/L			
1-Methylnaphthalene	ND	10	ug/L			
2-Methylnaphthalene	ND	10	ug/L			
Naphthalene	ND	10	ug/L			
Phenanthrene	ND	10	ug/L			
Pyrene	ND	10	ug/L			
4-Chloro-3-methylphenol	ND	10	ug/L			
2-Chlorophenol	ND	10	ug/L			
2,4-Dichlorophenol	ND	10	ug/L			
2,4-Dimethylphenol	ND	10	ug/L			
2,4-Dinitrophenol	ND	50	ug/L			
2-Methyl-4,6-dinitrophenol	ND	50	ug/L			
2-Nitrophenol	ND	10	ug/L			
4-Nitrophenol	ND	50	ug/L			
Pentachlorophenol	ND	50	ug/L			
Phenol	ND	10	ug/L			
2,4,6-Trichlorophenol	ND	10	ug/L			
Nitrobenzene-d5 (Surrogate)	72	0	% Recovery	35-114% Limit		
2-Fluorobiphenyl (Surrogate)	68	0	% Recovery	43-116% Limit		
4-Terphenyl-d14 (Surrogate)	99	0	% Recovery	33-141% Limit		
Phenol-d6 (Surrogate)	66	0	% Recovery	10-94% Limit		
2-Fluorophenol (Surrogate)	46	0	% Recovery	21-100% Limit		
2,4,6-Tribromophenol (Surrogate)	88	0	% Recovery	10-123% Limit		
Time Analyzed	1442	0				
Date Extracted	06/26/95	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

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

LABORATORY I.D....: 951430-0013
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)	06/30/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	0929	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION...: METHOD BLANK

LABORATORY I.D....: 951430-0014

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)	07/01/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	1610	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....: :

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951430-0015

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)	07/03/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	0947	0				

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 06/29/95 TIME ANALYZED: 08:55 METHOD: 8270 (2)

QC NUMBER: 332572

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	SB	1540	1	0	0	
	SBD	1637	1	0	0	
Date Extracted	SB	06/26/95	1	0	0	
	SBD	06/26/95	1	0	0	

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

BNA SPIKED ANALYSIS-WATER

DATE ANALYZED: 06/29/95 TIME ANALYZED: 08:55 METHOD: 8270 (2)

QC NUMBER: 332572

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	B950525B	1	82	100	82	10	ug/L
	SBD	B950525B	1	63	100	63	10	ug/L
2-Chlorophenol	SB	B950525B	1	80	100	80	10	ug/L
	SBD	B950525B	1	55	100	55	10	ug/L
1,4-Dichlorobenzene	SB	B950525B	1	73	100	73	10	ug/L
	SBD	B950525B	1	62	100	62	10	ug/L
N-Nitrosodi-n-propylamine	SB	B950525B	1	96	100	96	10	ug/L
	SBD	B950525B	1	83	100	83	10	ug/L
1,2,4-Trichlorobenzene	SB	B950525B	1	77	100	77	10	ug/L
	SBD	B950525B	1	66	100	66	10	ug/L
4-Chloro-3-methylphenol	SB	B950525B	1	96	100	96	10	ug/L
	SBD	B950525B	1	83	100	83	10	ug/L
Acenaphthene	SB	B950525B	1	89	100	89	10	ug/L
	SBD	B950525B	1	78	100	78	10	ug/L
4-Nitrophenol	SB	B950525B	1	96	100	96	50	ug/L
	SBD	B950525B	1	95	100	95	50	ug/L
2,4-Dinitrotoluene	SB	B950525B	1	95	100	95	10	ug/L
	SBD	B950525B	1	90	100	90	10	ug/L
Pentachlorophenol	SB	B950525B	1	89	100	89	50	ug/L
	SBD	B950525B	1	99	100	99	50	ug/L
Pyrene	SB	B950525B	1	112	100	112	10	ug/L
	SBD	B950525B	1	103	100	103	10	ug/L
Nitrobenzene-d5 (Surrogate)	SB	B950525B	1	83	100	83	0	35-114% Limit
	SBD	B950525B	1	77	100	77	0	35-114% Limit
2-Fluorobiphenyl (Surrogate)	SB	B950525B	1	81	100	81	0	43-116% Limit
	SBD	B950525B	1	72	100	72	0	43-116% Limit
4-Terphenyl-d14 (Surrogate)	SB	B950525B	1	108	100	108	0	33-141% Limit
	SBD	B950525B	1	93	100	93	0	33-141% Limit
Phenol-d6 (Surrogate)	SB	B950525B	1	80	100	80	0	10-94% Limit
	SBD	B950525B	1	62	100	62	0	10-94% Limit
2-Fluorophenol (Surrogate)	SB	B950525B	1	60	100	60	0	21-100% Limit
	SBD	B950525B	1	38	100	38	0	21-100% Limit
2,4,6-Tribromophenol (Surrogate)	SBD	B950525B	1	102	100	102	0	10-123% Limit
	SBD	B950525B	1	91	100	91	0	10-123% Limit

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JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER:332580

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER: 332580

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062795B	1	21.1	20.0	106	0.5	ug/L
	SBD	T062795B	1	20.3	20.0	102	0.5	ug/L
Toluene	SB	T062795B	1	20.4	20.0	102	0.5	ug/L
	SBD	T062795B	1	19.7	20.0	98	0.5	ug/L
Ethyl benzene	SB	T062795B	1	20.7	20.0	103	0.5	ug/L
	SBD	T062795B	1	19.9	20.0	99	0.5	ug/L
Xylenes	SB	T062795B	1	61.5	60.0	102	0.5	ug/L
	SBD	T062795B	1	59.1	60.0	98	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062795B	1	97	100	97	0	89-110% Limit
	SBD	T062795B	1	97	100	97	0	89-110% Limit

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JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER:332584

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/30/95 TIME ANALYZED: 07:44 METHOD: 602 (6)

QC NUMBER: 332584

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950630B	1	19.3	20.0	97	0.5	ug/L
	SBD	T950630B	1	20.2	20.0	101	0.5	ug/L
Toluene	SB	T950630B	1	20.0	20.0	100	0.5	ug/L
	SBD	T950630B	1	20.8	20.0	104	0.5	ug/L
Ethyl benzene	SB	T950630B	1	19.6	20.0	98	0.5	ug/L
	SBD	T950630B	1	20.5	20.0	102	0.5	ug/L
Xylenes	SB	T950630B	1	61.4	60.0	102	0.5	ug/L
	SBD	T950630B	1	64.2	60.0	107	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950630B	1	105	100	105	0	89-110% Limit
	SBD	T950630B	1	107	100	107	0	89-110% Limit

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QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER: 332586

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.5	20.0	102	0.5	ug/L
Toluene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Ethyl benzene	SB	T950701B	1	19.8	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Xylenes	SB	T950701B	1	61.8	60.0	103	0.5	ug/L
	SBD	T950701B	1	63.4	60.0	106	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950701B	1	104	100	104	0	89-110% Limit
	SBD	T950701B	1	105	100	105	0	89-110% Limit

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JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95 TIME ANALYZED: 09:12 METHOD: 602 (6)

QC NUMBER:332589

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95 TIME ANALYZED: 09:12 METHOD: 602 (6)

QC NUMBER: 332589

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	951428-7	1	20.2	0	20.0	101	0.5	ug/L
	MS	951429-9	1	22.6	0	20.0	113	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.5	0	20.0	112	0.5	ug/L
Toluene	MS	951428-7	1	19.6	0	20.0	98	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Ethyl benzene	MS	951428-7	1	19.4	0	20.0	97	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Xylenes	MS	951428-7	1	60.4	0	60.0	101	0.5	ug/L
	MS	951429-9	1	69.4	0	60.0	116	0.5	ug/L
	MS	951430-3	1	64.1	0	60.0	107	0.5	ug/L
	MS	951431-7	1	68.7	0	60.0	114	0.5	ug/L
4-Bromofluorobenzene (Surrogat	MS	951428-7	1	104	0	100	104	0	89-110% Limit
	MS	951429-9	1	108	0	100	108	0	89-110% Limit
	MS	951430-3	1	107	0	100	107	0	89-110% Limit
	MS	951431-7	1	109	0	100	109	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of 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
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Houston, TX

Code

* AN
* CA
* CC
* HP

Subcontract Laboratory

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

Code

* LC
* LB
* XX

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CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 951429
Prepared For:

GEOSCIENCE CONSULTANTS, LTD.

505 MARQUETTE NW, SUITE 1100
ALBUQUERQUE, NM 87102

Date: 07/11/95


Signature

7-11-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator

B



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and Engineering**
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FAX: (301) 459-3064

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

No. 9052

Chain of Custody

Date 6/22/95 Page 1 of 1

Analysis Request

Lab Name <u>CORE LABORATORIES</u>			
Address <u>10703 East Bethany Drive</u>			
<u>Aurora, CO 80014-2696</u>			
Telephone <u>303/751-1780</u>			
Samplers (SIGNATURES) <u>D. [Signature]</u>			
Sample Number	Matrix	Location	
9506220925	H2O	WP-10	
9506220930	H2O	WP-7	
9506220940	H2O	WP-26d	
9506220945	H2O	WP-20	
9506220950	H2O	WP-28	
9506221000	H2O	WP-17	
9506221005	H2O	WP-22	
9506221015	H2O	WP-24	
9506221020	H2O	WP-30	
9506221030	H2O	Field Blank	
Project Information		Sample Record	
Project <u>REVENUE</u>		Total No. of Containers	
Project Director <u>TRENT T.</u>		Chain of Custody Seals	
Charge Code No. <u>3031.006</u>		Rec'd Good Condition/C	
Shipping ID. No.		Conforms to Record	
<u>3238365712</u>		Lab No. <u>951429</u>	
Via: <u>Fed X</u>			
Special Instructions/Comments:			

[illegible]

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES


SAMPLE DELIVERY GROUP NARRATIVE

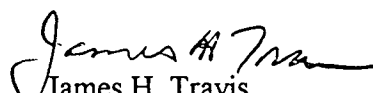
July 11, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene COC 9052
Core Laboratories Project Number: 951429

Method 602 GC Organics

Sample 951429-2 (9506220930) is reported with elevated detection limits. The sample matrix did not show acceptable surrogate recovery at a higher sample concentration due to an interfering analyte that coeluted with the internal standard.


Linda L. Benkers
QA/QC Coordinator


James H. Travis
Laboratory Supervisor



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:25

WORK DESCRIPTION: 9506220925

LABORATORY I.D.: 951429-0001

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-10 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	07/02/95	DMJ
Benzene	800 ✓	25 ✓	ug/L			
Toluene	91	25	ug/L			
Ethyl benzene	42	25	ug/L			
Xylenes	46	25	ug/L			
4-Bromofluorobenzene (Surrogate)	108	0	% Recovery	89-110% Limit		
Time Analyzed	0129	0				

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(303) 751-1780



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

LABORATORY I.D.: 951429-0002

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 09:30

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506220930

REMARKS: WP-7 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*20		602 (6)	07/03/95	DMJ
Benzene	ND ✓	10 ✓	ug/L			
Toluene	ND	10	ug/L			
Ethyl benzene	ND	10	ug/L			
Xylenes	ND	10	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	2200	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:40

WORK DESCRIPTION: 9506220940

LABORATORY I.D.: 951429-0003

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-26d ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	07/02/95	DMJ
Benzene	81 ✓	5 ✓	ug/L			
Toluene	6	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	44	5	ug/L			
4-Bromofluorobenzene (Surrogate)	103	0	% Recovery	89-110% Limit		
Time Analyzed	0204	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:45

WORK DESCRIPTION: 9506220945

LABORATORY I.D.: 951429-0004

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-20 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	07/02/95	DMJ
Benzene	2000 ✓	50 ✓	ug/L			
Toluene	ND	50	ug/L			
Ethyl benzene	ND	50	ug/L			
Xylenes	ND	50	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	0238	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 09:50

WORK DESCRIPTION: 9506220950

LABORATORY I.D.: 951429-0005

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-28 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
502 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	07/02/95	DMJ
Benzene	2600 ✓	25 ✓	ug/L			
Toluene	ND	25	ug/L			
Ethyl benzene	ND	25	ug/L			
Xylenes	ND	25	ug/L			
4-Bromofluorobenzene (Surrogate)	102	0	% Recovery	89-110% Limit		
Time Analyzed	0313	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 10:00

WORK DESCRIPTION: 9506221000

LABORATORY I.D.: 951429-0006

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-17 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*100		602 (6)	06/27/95	DMJ
Benzene	5400 ✓	50 ✓	ug/L			
Toluene	81	50	ug/L			
Ethyl benzene	110	50	ug/L			
Xylenes	ND	50	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	2130	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 10:05

WORK DESCRIPTION: 9506221005

LABORATORY I.D.: 951429-0007

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-22 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*50		602 (6)	07/03/95	DMJ
Benzene	1500 ✓	25 ✓	ug/L			
Toluene	ND	25	ug/L			
Ethyl benzene	36	25	ug/L			
Xylenes	ND	25	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	2016	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 10:15

WORK DESCRIPTION: 9506221015

LABORATORY I.D.: 951429-0008

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: WP-24 ✓

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*10		602 (6)	07/03/95	DMJ
Benzene	200 ✓	5 ✓	ug/L			
Toluene	ND	5	ug/L			
Ethyl benzene	ND	5	ug/L			
Xylenes	ND	5	ug/L			
4-Bromofluorobenzene (Surrogate)	104	0	% Recovery	89-110% Limit		
Time Analyzed	2051	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9052

DATE SAMPLED: 06/22/95

TIME SAMPLED: 10:30

WORK DESCRIPTION: 9506221030

LABORATORY I.D.: 951429-0009

DATE RECEIVED: 06/23/95

TIME RECEIVED: 11:00

REMARKS: FIELD BLANK

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
602 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	06/26/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	97	0	% Recovery	89-110% Limit		
Time Analyzed	1749	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS

07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951429-0010

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)	06/26/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	99	0	% Recovery	89-110% Limit		
Time Analyzed	0932	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951429-0011

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)	06/27/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	101	0	% Recovery	89-110% Limit		
Time Analyzed	2049	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

DATE SAMPLED.....: / /

TIME SAMPLED.....:

WORK DESCRIPTION....: METHOD BLANK

LABORATORY I.D....: 951429-0012

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)	07/01/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	106	0	% Recovery	89-110% Limit		
Time Analyzed	1610	0				

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CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

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

LABORATORY I.D.: 951429-0013
DATE RECEIVED: / /
TIME RECEIVED: :
REMARKS:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
02 - VOLATILE AROMATIC ORGANICS		*1		602 (6)	07/03/95	DMJ
Benzene	ND	0.5	ug/L			
Toluene	ND	0.5	ug/L			
Ethyl benzene	ND	0.5	ug/L			
Xylenes	ND	0.5	ug/L			
4-Bromofluorobenzene (Surrogate)	105	0	% Recovery	89-110% Limit		
Time Analyzed	0947	0				

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JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/26/95 TIME ANALYZED: 07:29 METHOD: 602 (6)

QC NUMBER:332578

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/26/95 TIME ANALYZED: 07:29 METHOD: 602 (6)

QC NUMBER: 332578

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062695B	1	20.8	20.0	104	0.5	ug/L
	SBD	T062695B	1	21.5	20.0	108	0.5	ug/L
Toluene	SB	T062695B	1	20.2	20.0	101	0.5	ug/L
	SBD	T062695B	1	20.8	20.0	104	0.5	ug/L
Ethyl benzene	SB	T062695B	1	20.6	20.0	103	0.5	ug/L
	SBD	T062695B	1	21.2	20.0	106	0.5	ug/L
Xylenes	SB	T062695B	1	60.7	60.0	101	0.5	ug/L
	SBD	T062695B	1	62.7	60.0	105	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062695B	1	96	100	96	0	89-110% Limit
	SBD	T062695B	1	97	100	97	0	89-110% Limit

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JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER:332580

B L A N K S

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 06/27/95 TIME ANALYZED: 11:05 METHOD: 602 (6)

QC NUMBER: 332580

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T062795B	1	21.1	20.0	106	0.5	ug/L
	SBD	T062795B	1	20.3	20.0	102	0.5	ug/L
Toluene	SB	T062795B	1	20.4	20.0	102	0.5	ug/L
	SBD	T062795B	1	19.7	20.0	98	0.5	ug/L
Ethyl benzene	SB	T062795B	1	20.7	20.0	103	0.5	ug/L
	SBD	T062795B	1	19.9	20.0	99	0.5	ug/L
Xylenes	SB	T062795B	1	61.5	60.0	102	0.5	ug/L
	SBD	T062795B	1	59.1	60.0	98	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T062795B	1	97	100	97	0	89-110% Limit
	SBD	T062795B	1	97	100	97	0	89-110% Limit

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JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER:332586

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/01/95 TIME ANALYZED: 14:18 METHOD: 602 (6)

QC NUMBER: 332586

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.5	20.0	102	0.5	ug/L
Toluene	SB	T950701B	1	19.9	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Ethyl benzene	SB	T950701B	1	19.8	20.0	99	0.5	ug/L
	SBD	T950701B	1	20.4	20.0	102	0.5	ug/L
Xylenes	SB	T950701B	1	61.8	60.0	103	0.5	ug/L
	SBD	T950701B	1	63.4	60.0	106	0.5	ug/L
4-Bromofluorobenzene (Surrogate)	SB	T950701B	1	104	100	104	0	89-110% Limit
	SBD	T950701B	1	105	100	105	0	89-110% Limit

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07/11/95

ATTN:

QC NUMBER:332589

BLANKS

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CORE LABORATORIES

QUALITY CONTROL REPORT 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

602 - VOLATILE AROMATIC ORGANICS

DATE ANALYZED: 07/03/95

TIME ANALYZED: 09:12

METHOD: 602 (6)

QC NUMBER: 332589

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	951428-7	1	20.2	0	20.0	101	0.5	ug/L
	MS	951429-9	1	22.6	0	20.0	113	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.5	0	20.0	112	0.5	ug/L
Toluene	MS	951428-7	1	19.6	0	20.0	98	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Ethyl benzene	MS	951428-7	1	19.4	0	20.0	97	0.5	ug/L
	MS	951429-9	1	22.3	0	20.0	112	0.5	ug/L
	MS	951430-3	1	20.6	0	20.0	103	0.5	ug/L
	MS	951431-7	1	22.4	0	20.0	112	0.5	ug/L
Xylenes	MS	951428-7	1	60.4	0	60.0	101	0.5	ug/L
	MS	951429-9	1	69.4	0	60.0	116	0.5	ug/L
	MS	951430-3	1	64.1	0	60.0	107	0.5	ug/L
	MS	951431-7	1	68.7	0	60.0	114	0.5	ug/L
4-Bromofluorobenzene (Surrogat	MS	951428-7	1	104	0	100	104	0	89-110% Limit
	MS	951429-9	1	108	0	100	108	0	89-110% Limit
	MS	951430-3	1	107	0	100	107	0	89-110% Limit
	MS	951431-7	1	109	0	100	109	0	89-110% Limit

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CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods For Chemical Analysis Of Water And Wastes, March 1983
- (2) EPA SW-846, Test Methods For Evaluating Solid Waste, Third Edition, November 1986
- (3) Standard Methods For The Examination Of Water And Wastewater, 17th Edition, 1989
- (4) EPA 600/4-80-032, Prescribed Procedures For Measurement Of Radioactivity In Drinking Water, August 1980
- (5) EPA 600/8-78-017, Microbiological Methods For Monitoring The Environment, December 1978
- (6) Federal Register, July 1, 1990 (40 CFR Part 136)
- (7) EPA 600/4-88-039, Methods For The Determination Of 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
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Houston, TX

Code

* AN
* CA
* CC
* HP

Subcontract Laboratory

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

Code

* LC
* LB
* XX

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CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 954344

Prepared For:
Geoscience Consultants, Ltd.
Annette Montoya
505 Marquette NW
Suite 1100

Albuquerque, NM 87102

Date: 11/01/95

A handwritten signature in cursive script, reading "Linda L. Benkers".

Signature

Name: Linda L. Benkers

Title: QA/QC Coordinator

11-1-95

Date

CORE LABORATORIES, INC.
Analytical Chemistry Division
10703 East Bethany Drive
Aurora, CO 80014



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Las Cruces, NM 88004
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No 9423

Chain of Custody

Date 9/25/95 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) <i>Billy Dalgado</i>																											
Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/CB 608/8080	Poly-nuclear Aromatic Hydrocarbons 610/8310	GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP-Vol, Semi-Vol, Herbicides, Pesticides	TCLP-Metals	RCRA Metals (8)	Priority Pollutant Metals (13)	CAM Metals (18) TLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	PAH/Phenols	Number of Containers	
9509251205	H ₂ O	MW-16	X																								3
9509251210	H ₂ O	MW-11	X																								4
9509251310	H ₂ O	MW-8	X																								4
9509251350	H ₂ O	MW-5	X																								4
9509251450	A ₂ O	MW-6D	X																								4
9509251455	A ₂ O	MW-6D	X																								3
9509251535	A ₂ O	MW-6S	X																								4
9509251540	A ₂ O	MW-6S	X																								4
9509251550	A ₂ O	Temp Blank	X																								1

Project Information		Sample Receipt		Relinquished By		Relinquished By		Relinquished By	
Project	REXENE	Total No. of Containers	31	Signature	(Time)	Signature	(Time)	Signature	(Time)
Project Director	TRUST-T.	Chain of Custody Seals	Y	(Printed Name)	(Date)	(Printed Name)	(Date)	(Printed Name)	(Date)
Charge Code No.	3031-006	Rec'd Good Condition/Cold	N	(Company)	(Date)	(Company)	(Date)	(Company)	(Date)
Shipping ID No.	323836550	Conforms to Record		Received By	(Time)	Received By	(Time)	Received By	(Time)
Via:	FED EX	Lab No.	954344	(Signature)	(Date)	(Signature)	(Date)	(Signature)	(Date)
Special Instructions/Comments:									

NORMAN TAT

Received By (Laboratory) *BRANDAN HILL* 9-26-95
Received By (Laboratory) *CORKE* 9-26-95

Distribution: White, Canary-Laboratory • Pink, GCL



ENVIRONMENTAL TESTING SERVICES

SAMPLE DELIVERY GROUP NARRATIVE

October 31, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene Quarterly Waters COC # 9423
Core Laboratories Project Number: 954344

Method 8270 GC/MS Semi-volatiles Analysis:

Sample 954344-1 (9509251205) has results reported at a 10x dilution because quality control would not pass method acceptance criteria on the 1x analysis.

Samples 954344-2 (9509251240), 954344-3 (9509251310), 954344-4 (9509251350), 954344-5 (9509251450), 954344-7 (9509251535), and 954344-8 (9509251540) were all extracted at a 10x preparation dilution because the samples emulsified when extracted at a 1x.

A handwritten signature in cursive script, reading "Linda L. Benkers".

Linda L. Benkers
QA/QC Coordinator

A handwritten signature in cursive script, reading "James H. Travis".

James H. Travis
Laboratory Manager



CORE LABORATORIES

J O B S A M P L E I N F O R M A T I O N

Report Date: 11/01/95

Job Number.....: 954344

Customer: Geoscience Consultants, Ltd.

Job Received Date....: 09/26/95

Project Number.....: 95000161

Customer Project ID....: REXENE COC #9423

Project Description.....: GCL Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
954344-1	9509251205	Water	09/25/95	12:05	09/26/95	10:30
954344-2	9509251240	Water	09/25/95	12:40	09/26/95	10:30
954344-3	9509251310	Water	09/25/95	13:10	09/26/95	10:30
954344-4	9509251350	Water	09/25/95	13:50	09/26/95	10:30
954344-5	9509251450	Water	09/25/95	14:50	09/26/95	10:30
954344-6	9509251455	Water	09/25/95	14:55	09/26/95	10:30
954344-7	9509251535	Water	09/25/95	15:35	09/26/95	10:30
954344-8	9509251540	Water	09/25/95	15:40	09/26/95	10:30
954344-9	9509251550	Water	09/25/95	15:50	09/26/95	10:30



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251205

Sample Date.....: 09/25/95

Sample Time.....: 12:05

Sample Matrix.....: Water

Laboratory Sample ID: 954344-1

Date Received.....: 09/26/95

Time Received.....: 10:30

MW-16

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/10/95
Ethylbenzene		ND	0.5	ug/L		10/10/95
Toluene		ND	0.5	ug/L		10/10/95
Xylenes (total)		ND	0.5	ug/L		10/10/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251240

Sample Date.....: 09/25/95

Sample Time.....: 12:40

Sample Matrix.....: Water

Laboratory Sample ID: 954344-2

Date Received.....: 09/26/95

Time Received.....: 10:30

MU-11

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		140	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		ND	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		80	10	ug/L		10/07/95
Ethylbenzene		ND	10	ug/L		10/07/95
Toluene		ND	10	ug/L		10/07/95
Xylenes (total)		10	10	ug/L		10/07/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251310

Sample Date.....: 09/25/95

Sample Time.....: 13:10

Sample Matrix.....: Water

Laboratory Sample ID: 954344-3

Date Received.....: 09/26/95

Time Received.....: 10:30

MW-8

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		ND	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		140	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		13000	200	ug/L		10/06/95
Ethylbenzene		300	200	ug/L		10/06/95
Toluene		ND	200	ug/L		10/06/95
Xylenes (total)		800	200	ug/L		10/06/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251350

Sample Date.....: 09/25/95

Sample Time.....: 13:50

Sample Matrix.....: Water

Laboratory Sample ID: 954344-4

Date Received.....: 09/26/95

Time Received.....: 10:30

MW-5

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		ND	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		ND	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		4400	200	ug/L		10/06/95
Ethylbenzene		ND	200	ug/L		10/06/95
Toluene		ND	200	ug/L		10/06/95
Xylenes (total)		ND	200	ug/L		10/06/95



CORE LABORATORIES

Job Number: 954344

LABORATORY TEST RESULTS

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251450

Sample Date.....: 09/25/95

Sample Time.....: 14:50

Sample Matrix.....: Water

Laboratory Sample ID: 954344-5

Date Received.....: 09/26/95

Time Received.....: 10:30

MW-6D

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		ND	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		ND	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/04/95
Ethylbenzene		ND	0.5	ug/L		10/04/95
Toluene		ND	0.5	ug/L		10/04/95
Xylenes (total)		ND	0.5	ug/L		10/04/95



CORE LABORATORIES

LABORATORY TEST RESULTS						
Job Number: 954344	Report Date: 11/01/95					
CUSTOMER: Geoscience Consultants, Ltd.	PROJECT: REXENE COC #9423					
ATTN: Annette Montoya						
Customer Sample ID: 9509251455						
Sample Date.....: 09/25/95						
Sample Time.....: 14:55						
Sample Matrix.....: Water						
Laboratory Sample ID: 954344-6						
Date Received.....: 09/26/95						
Time Received.....: 10:30						
MW-60						
TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/04/95
Ethylbenzene		ND	0.5	ug/L		10/04/95
Toluene		ND	0.5	ug/L		10/04/95
Xylenes (total)		ND	0.5	ug/L		10/04/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Customer Sample ID: 9509251535

Sample Date.....: 09/25/95

Sample Time.....: 15:35

Sample Matrix.....: Water

Laboratory Sample ID: 954344-7

Date Received.....: 09/26/95

Time Received.....: 10:30

MW-65

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		ND	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		ND	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		180	20	ug/L		10/06/95
Ethylbenzene		120	20	ug/L		10/06/95
Toluene		ND	20	ug/L		10/06/95
Xylenes (total)		30	20	ug/L		10/06/95



CORE LABORATORIES

LABORATORY TEST RESULTS						
Job Number: 954344	Report Date: 11/01/95					
CUSTOMER: Geoscience Consultants, Ltd.	PROJECT: REXENE COC #9423	ATTN: Annette Montoya				
Customer Sample ID: 9509251540 Sample Date.....: 09/25/95 Sample Time.....: 15:40 Sample Matrix.....: Water						
Laboratory Sample ID: 954344-8 Date Received.....: 09/26/95 Time Received.....: 10:30 <div>MW-6 S</div>						
TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/02/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	100	ug/L		10/03/95
Acenaphthylene		ND	100	ug/L		10/03/95
Anthracene		ND	100	ug/L		10/03/95
Benzo(a)anthracene		ND	100	ug/L		10/03/95
Benzo(b)fluoranthene		ND	100	ug/L		10/03/95
Benzo(k)fluoranthene		ND	100	ug/L		10/03/95
Benzo(ghi)perylene		ND	100	ug/L		10/03/95
Benzo(a)pyrene		ND	100	ug/L		10/03/95
Chrysene		ND	100	ug/L		10/03/95
Dibenzo(a,h)anthracene		ND	100	ug/L		10/03/95
Fluoranthene		ND	100	ug/L		10/03/95
Fluorene		ND	100	ug/L		10/03/95
Indeno(1,2,3-cd)pyrene		ND	100	ug/L		10/03/95
1-Methylnaphthalene		ND	100	ug/L		10/03/95
2-Methylnaphthalene		ND	100	ug/L		10/03/95
Naphthalene		ND	100	ug/L		10/03/95
Phenanthrene		ND	100	ug/L		10/03/95
Pyrene		ND	100	ug/L		10/03/95
4-Chloro-3-methylphenol		ND	100	ug/L		10/03/95
2-Chlorophenol		ND	100	ug/L		10/03/95
2,4-Dichlorophenol		ND	100	ug/L		10/03/95
2,4-Dimethylphenol		ND	100	ug/L		10/03/95
2,4-Dinitrophenol		ND	500	ug/L		10/03/95
2-Methyl-4,6-dinitrophenol		ND	500	ug/L		10/03/95
2-Nitrophenol		ND	100	ug/L		10/03/95
4-Nitrophenol		ND	500	ug/L		10/03/95
Pentachlorophenol		ND	500	ug/L		10/03/95
Phenol		ND	100	ug/L		10/03/95
2,4,6-Trichlorophenol		ND	100	ug/L		10/03/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		180	20	ug/L		10/09/95
Ethylbenzene		110	20	ug/L		10/09/95
Toluene		ND	20	ug/L		10/09/95
Xylenes (total)		30	20	ug/L		10/09/95



CORE LABORATORIES

LABORATORY TEST RESULTS						
Job Number: 954344		Report Date: 11/01/95				
CUSTOMER: Geoscience Consultants, Ltd.		PROJECT: REXENE COC #9423		ATTN: Annette Montoya		
Customer Sample ID: 9509251550 Sample Date.....: 09/25/95 Sample Time.....: 15:50 Sample Matrix.....: Water		Laboratory Sample ID: 954344-9 Date Received.....: 09/26/95 Time Received.....: 10:30				
TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/03/95
Ethylbenzene		ND	0.5	ug/L		10/03/95
Toluene		ND	0.5	ug/L		10/03/95
Xylenes (total)		ND	0.5	ug/L		10/03/95



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Method: SW-846 8020

Batch.....: 2687

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/03/95	1026
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					

SB	Spiked Blank	T100395B				10/03/95	0826
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	20.7	0.5	20.0			% REC	103.5
Ethylbenzene	20.1	0.5	20.0			% REC	100.5
Toluene	20.3	0.5	20.0			% REC	101.5
Xylenes (total)	59.8	0.5	60.0			% REC	99.7

SBD	Spiked Blank Duplicate	T100395B				10/03/95	0904
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	20.7	0.5	20.0		20.7	% REC RPD	103.5 0.0
Ethylbenzene	20.3	0.5	20.0		20.1	% REC RPD	101.5 1.0
Toluene	20.4	0.5	20.0		20.3	% REC RPD	102.0 0.5
Xylenes (total)	60.1	0.5	60.0		59.8	% REC RPD	100.2 0.5

Method: SW-846 8020

Batch.....: 2689

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/06/95	1024
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					



CORE LABORATORIES

Job Number: 954344		QUALITY CONTROL REPORT		Report Date: 11/01/95	
CUSTOMER: Geoscience Consultants, Ltd.		PROJECT: REXENE COC #9423		ATTN: Annette Montoya	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

SB	Spiked Blank	T100695B			10/06/95 1643
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0			% REC	108.5
Ethylbenzene	21.1	0.5	20.0			% REC	105.5
Toluene	21.5	0.5	20.0			% REC	107.5
Xylenes (total)	63.1	0.5	60.0			% REC	105.2

SBD	Spiked Blank Duplicate	T100695B			10/06/95 1720
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0		21.7	% REC	108.5
						RPD	0.0
Ethylbenzene	21.1	0.5	20.0		21.1	% REC	105.5
						RPD	0.0
Toluene	21.4	0.5	20.0		21.5	% REC	107.0
						RPD	0.5
Xylenes (total)	62.9	0.5	60.0		63.1	% REC	104.8
						RPD	0.3

Method	SW-846 8020	Batch.....	2691	Analyst	dmj
Method Description..	Volatile Organics -Aromatics	Units.....	ug/L		

MB	Method Blank				10/09/95 1151
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					

Method	SW-846 8020	Batch.....	2692	Analyst	dmj
Method Description..	Volatile Organics -Aromatics	Units.....	ug/L		

MB	Method Blank				10/10/95 1325
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					



CORE LABORATORIES

Job Number: 954344		QUALITY CONTROL REPORT		Report Date: 11/01/95	
CUSTOMER: Geoscience Consultants, Ltd.		PROJECT: REXENE COC #9423		ATTN: Annette Montoya	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Method	SW-846 8270	Batch.....	2781	Analyst	mla
Method Description..	Semivolatile Organics (Client List)	Units.....	ug/L		

MB	Method Blank	MB0742			10/03/95 1921
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Acenaphthene	ND	10					
Acenaphthylene	ND	10					
Anthracene	ND	10					
Benzo(a)anthracene	ND	10					
Benzo(b)fluoranthene	ND	10					
Benzo(k)fluoranthene	ND	10					
Benzo(ghi)perylene	ND	10					
Benzo(a)pyrene	ND	10					
Chrysene	ND	10					
Dibenzo(a,h)anthracene	ND	10					
Fluoranthene	ND	10					
Fluorene	ND	10					
Indeno(1,2,3-cd)pyrene	ND	10					
1-Methylnaphthalene	ND	10					
2-Methylnaphthalene	ND	10					
Naphthalene	ND	10					
Phenanthrene	ND	10					
Pyrene	ND	10					
4-Chloro-3-methylphenol	ND	10					
2-Chlorophenol	ND	10					
2,4-Dichlorophenol	ND	10					
2,4-Dimethylphenol	ND	10					
2,4-Dinitrophenol	ND	50					
2-Methyl-4,6-dinitrophenol	ND	50					
2-Nitrophenol	ND	10					
4-Nitrophenol	ND	50					
Pentachlorophenol	ND	50					
Phenol	ND	10					
2,4,6-Trichlorophenol	ND	10					



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Method.....: SW-846

Batch.....: 2687

Method Code.....: 8020

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	20.2	20.0800	100.6		10/03/95	1026
		SB	19.2	20.0800	95.6		10/03/95	0826
		SBD	19.2	20.0800	95.6		10/03/95	0904
954344-9			19.7	20.0800	98.1		10/03/95	1334
954344-5			20.0	20.0800	99.6		10/04/95	0246
954344-6			19.7	20.0800	98.1		10/04/95	0324

Method.....: SW-846

Batch.....: 2689

Method Code.....: 8020

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.5	20.0800	97.1		10/06/95	1024
		SB	19.2	20.0800	95.6		10/06/95	1643
		SBD	19.0	20.0800	94.6		10/06/95	1720
954344-3			19.0	20.0800	94.6		10/06/95	1414
954344-4			20.0	20.0800	99.6		10/06/95	1451
954344-7			18.0	20.0800	89.6		10/06/95	1528
954344-2			18.0	20.0800	89.6		10/07/95	0318

Method.....: SW-846

Batch.....: 2691

Method Code.....: 8020

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.8	20.0800	98.6		10/09/95	1151
954344-8			18.3	20.0800	91.1		10/09/95	1305



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Method.....: SW-846

Batch.....: 2692

Method Code.....: 8020

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954344-1		MB	19.7	20.0800	98.1		10/10/95	1325
			18.8	20.0800	93.6		10/10/95	1512

Method.....: SW-846

Batch.....: 2781

Method Code.....: 8270C

Analyst.....: mla

Surrogate	Dilution Factor	Units
2,4,6-Tribromophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954344-2 954344-3 954344-4 954344-5 954344-7 954344-8		MB	29.37	1000.10	29		10/03/95	1921
			87.87	1000.10	88		10/03/95	2019
			101.12	1000.10	101		10/03/95	2117
			107.38	1000.10	107		10/03/95	2215
			107.28	1000.10	107		10/03/95	2313
			106.97	1000.10	107		10/03/95	0011
			106.35	1000.10	106		10/03/95	0110

Surrogate	Dilution Factor	Units
2-Fluorobiphenyl		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954344-2 954344-3 954344-4 954344-5 954344-7 954344-8		MB	35.71	500.10	71		10/03/95	1921
			42.87	500.10	86		10/03/95	2019
			34.21	500.10	68		10/03/95	2117
			38.61	500.10	77		10/03/95	2215
			35.97	500.10	72		10/03/95	2313
			37.15	500.10	74		10/03/95	0011
			35.44	500.10	71		10/03/95	0110

Surrogate	Dilution Factor	Units
2-Fluorophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	17.12	1000.00	17	X	10/03/95	1921



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
2-Fluorophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954344-2			37.65	1000.00	38		10/03/95	2019
954344-3			39.57	1000.00	40		10/03/95	2117
954344-4			48.71	1000.00	49		10/03/95	2215
954344-5			53.32	1000.00	53		10/03/95	2313
954344-7			56.10	1000.00	56		10/03/95	0011
954344-8			55.19	1000.00	55		10/03/95	0110

Surrogate	Dilution Factor	Units
Nitrobenzene-d5		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	36.36	500.00	73		10/03/95	1921
954344-2			41.79	500.00	84		10/03/95	2019
954344-3			31.40	500.00	63		10/03/95	2117
954344-4			37.88	500.00	76		10/03/95	2215
954344-5			44.33	500.00	89		10/03/95	2313
954344-7			42.36	500.00	85		10/03/95	0011
954344-8			41.38	500.00	83		10/03/95	0110

Surrogate	Dilution Factor	Units
Phenol-d6		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	17.04	1000.20	17		10/03/95	1921
954344-2			27.66	1000.20	28		10/03/95	2019
954344-3			24.73	1000.20	25		10/03/95	2117
954344-4			28.79	1000.20	29		10/03/95	2215
954344-5			33.90	1000.20	34		10/03/95	2313
954344-7			35.01	1000.20	35		10/03/95	0011
954344-8			36.21	1000.20	36		10/03/95	0110

Surrogate	Dilution Factor	Units
Terphenyl-d14		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	50.60	500.00	101		10/03/95	1921
954344-2			54.29	500.00	109		10/03/95	2019
954344-3			45.39	500.00	91		10/03/95	2117
954344-4			50.28	500.00	101		10/03/95	2215
954344-5			58.47	500.00	117		10/03/95	2313



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954344

Report Date: 11/01/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9423

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
Terphenyl-d14		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954344-7			50.30	500.00	101		10/03/95	0011
954344-8			47.93	500.00	96		10/03/95	0110



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/01/95

Volatile Organics

Method 602/8020

Surrogate Recovery Limits

	Water	Soil
Bromofluorobenzene	89-110%	78-123%

Spike/Spike Duplicate Recovery Limits

	Water	Soil
Benzene	75-125%	75-125%
Ethylbenzene	75-125%	75-125%
Toluene	75-125%	75-125%
Xylenes	75-125%	75-125%

Method 8015 Modified

Spike/Spike Duplicate Recovery Limits

	Water	Soil
TVPH	81-124%	81-124%
TEPH	54-135%	54-135%

Method 624/8240/8260

Surrogate Recovery Limits

	Water	Soil
Dibromofluoromethane	86-118%	80-120%
Toluene-(d8)	88-110%	81-117%
4-Bromofluorobenzene	86-115%	74-121%

Spike/Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21

Pesticides/PCB Organics

Method 608/8080

Surrogate Recovery Limits

	Water	Soil
Tetrachloro-m-xylene	60-150%	60-150%
4,4'-Dichlorobiphenyl	60-150%	60-150%

Method 8140

Surrogate Recovery Limits

	Water	Soil
Tributylphosphate	36-152%	36-152%
Triphenylphosphate	40-152%	40-152%

Base/Neutral/Acid Organics

Method 625/8270

Surrogate Recovery Limits

	Water	Soil
Nitrobenzene-d5	35-114%	23-120%
2-Fluorobiphenyl	43-116%	30-115%
4-Terphenyl-d14	33-141%	18-137%
Phenol-d6	10-94%	24-113%
2-Fluorophenol	21-100%	25-121%
2,4,6-Tribromophenol	10-123%	19-122%



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/01/95

Matrix Spike/Matrix Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dinitrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/01/95

- (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, 1989
- (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 600/4-88-03, Methods For The Determination of Organics Compounds in Drinking Water, December 1988
- (8) U.S.G.S. Methods For 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 & 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 Rocks; Building Stones, 1981

Comments: Data in the 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



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/01/95

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion Spike
SB Spiked Blank
SBD Spike Blank Duplicate

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 Interface Check Sample
ICL Initial Calibration/Laboratory Control Sample
DSC Distilled Standard Check

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

CODE

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

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- 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.



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/01/95

- This flag is also used when estimating the concentration of a tentatively identified compound.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
 - Y - Used to identify a spike or spike duplicate recovery that is outside the specified quality control limits.
 - Z - Indicates a relative percent difference for a spike and spike duplicate is outside the specified quality control limits.
 - * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
 - ^ - Used to indicate that a standard is outside specified quality control limits.



CORE LABORATORIES

CORE LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 954368

Prepared For:
Geoscience Consultants, Ltd.
Annette Montoya
505 Marquette NW
Suite 1100

Albuquerque, NM 87102

Date: 10/30/95

Linda L. Benkers
Signature

Name: Linda L. Benkers
Title: QA/QC Coordinator

10-30-95
Date

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

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No. 9424

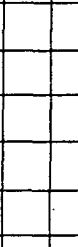
Chain of Custody

Date 9/26/95 Page 2 Of 1

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

Samplers (SIGNATURES)
Sally Anderson

Analysis Request

Address 10703 East Bethany Drive Aurora, CO 80014-2696 Telephone 303/751-1780			Signatures		Sample Number		Matrix	Location
Address 10703 East Bethany Drive Aurora, CO 80014-2696 Telephone 303/751-1780					9509260810 9509260830 9509260905 9509260840 9509261010 9509261110 9509261155 9509261235 9509261245 9509261340		H2O	mw-7
								mw-7
								mw-4
								mw-4
								mw-15
								mw-17
								mw-14
								mw-95
								mw-95
								mw-30

Project Information		Sample Receipt		Relinquished By		Relinquished By		Relinquished By	
Project	Rexene	Total No. of Containers	36	(Signature)	Billy Alley	(Time)	1630	(Signature)	
Project Director	Trent T	Chain of Custody Seals	OK	(Printed Name)	Billy Gates	(Date)	9/26/83	(Signature)	
Charge Code No.	3231006	Rec'd Good Condition/Cold	OK	(Printed Name)	BCL	(Date)		(Signature)	
Shipping ID. No.	3238365561	Conforms to Record	OK	(Company)		(Company)		(Signature)	
Via: Fed Ex		Lab No.	954368	Received By		1		Received By	
Special Instructions/Comments: Normal TAT				(Signature)		(Time)		(Signature)	
				(Printed Name)		(Date)		(Printed Name)	
				(Company)		(Company)		(Company)	

Distribution: White; Canary-Laboratory • Pink, GCL



ENVIRONMENTAL TESTING SERVICES

SAMPLE DELIVERY GROUP NARRATIVE

October 30, 1995

Customer: Geoscience Consultants, Ltd.
Project: Rexene Quarterly Waters COC # 9424
Core Laboratories Project Number: 954368

Method 8270 GC/MS Semi-volatiles Analysis:

Sample 954368-5 (9509261010) had low internal standards chrysene-d12 and perylene-d12 when compared to the daily continuing calibration verification standard. This sample also had the surrogate, terphenyl-d14, above method acceptance criteria.

Sample 954368-6 (9509261110) had a low internal standard, perylene-d12, when compared to the daily continuing calibration verification standard.

Both of the above samples were reanalyzed to confirm the internal standards and surrogates.

A handwritten signature in cursive script, appearing to read "Linda L. Benkers".

Linda L. Benkers
QA/QC Coordinator

A handwritten signature in cursive script, appearing to read "James H. Travis".

James H. Travis
Laboratory Manager



CORE LABORATORIES

J O B S A M P L E I N F O R M A T I O N

Report Date: 10/30/95

Job Number.....: 954368 Project Number.....: 95000161
Customer: Geoscience Consultants, Ltd. Customer Project ID.....: REXENE COC #9424
Job Received Date....: 09/27/95 Project Description.....: GCL Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
954368-1	9509260810	Water	09/26/95	08:10	09/27/95	10:15
954368-2	9509260830	Water	09/26/95	08:30	09/27/95	10:15
954368-3	9509260905	Water	09/26/95	09:05	09/27/95	10:15
954368-4	9509260840	Water	09/26/95	08:40	09/27/95	10:15
954368-5	9509261010	Water	09/26/95	10:10	09/27/95	10:15
954368-6	9509261110	Water	09/26/95	11:10	09/27/95	10:15
954368-7	9509261155	Water	09/26/95	11:55	09/27/95	10:15
954368-8	9509261235	Water	09/26/95	12:35	09/27/95	10:15
954368-9	9509261245	Water	09/26/95	12:45	09/27/95	10:15
954368-10	9509261340	Water	09/26/95	13:40	09/27/95	10:15



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509260810

Sample Date.....: 09/26/95

Sample Time.....: 08:10

Sample Matrix.....: Water

Laboratory Sample ID: 954368-1

Date Received.....: 09/27/95

Time Received.....: 10:15

MW-7

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		4.9	0.5	ug/L		10/05/95
Ethylbenzene		ND	0.5	ug/L		10/05/95
Toluene		ND	0.5	ug/L		10/05/95
Xylenes (total)		ND	0.5	ug/L		10/05/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509260830

Sample Date.....: 09/26/95

Sample Time.....: 08:30

Sample Matrix.....: Water

Laboratory Sample ID: 954368-2

Date Received.....: 09/27/95

Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/05/95
Ethylbenzene		ND	0.5	ug/L		10/05/95
Toluene		ND	0.5	ug/L		10/05/95
Xylenes (total)		ND	0.5	ug/L		10/05/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509260905

Sample Date.....: 09/26/95

Sample Time.....: 09:05

Sample Matrix.....: Water

Laboratory Sample ID: 954368-3

Date Received.....: 09/27/95

Time Received.....: 10:15

MW-4

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		2200	50	ug/L		10/09/95
Ethylbenzene		ND	50	ug/L		10/09/95
Toluene		ND	50	ug/L		10/09/95
Xylenes (total)		ND	50	ug/L		10/09/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509260840
Sample Date.....: 09/26/95
Sample Time.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 954368-4
Date Received.....: 09/27/95
Time Received.....: 10:15

MW-4

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/05/95
Ethylbenzene		ND	0.5	ug/L		10/05/95
Toluene		ND	0.5	ug/L		10/05/95
Xylenes (total)		ND	0.5	ug/L		10/05/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261010
Sample Date: 09/26/95
Sample Time: 10:10
Sample Matrix: Water

Laboratory Sample ID: 954368-5
Date Received: 09/27/95
Time Received: 10:15

MW-15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/06/95
Acenaphthylene		ND	10	ug/L		10/06/95
Anthracene		ND	10	ug/L		10/06/95
Benzo(a)anthracene		ND	10	ug/L		10/06/95
Benzo(b)fluoranthene		ND	10	ug/L		10/06/95
Benzo(k)fluoranthene		ND	10	ug/L		10/06/95
Benzo(ghi)perylene		ND	10	ug/L		10/06/95
Benzo(a)pyrene		ND	10	ug/L		10/06/95
Chrysene		ND	10	ug/L		10/06/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/06/95
Fluoranthene		ND	10	ug/L		10/06/95
Fluorene		ND	10	ug/L		10/06/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/06/95
1-Methylnaphthalene		ND	10	ug/L		10/06/95
2-Methylnaphthalene		ND	10	ug/L		10/06/95
Naphthalene		ND	10	ug/L		10/06/95
Phenanthrene		ND	10	ug/L		10/06/95
Pyrene		ND	10	ug/L		10/06/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/06/95
2-Chlorophenol		ND	10	ug/L		10/06/95
2,4-Dichlorophenol		ND	10	ug/L		10/06/95
2,4-Dimethylphenol		ND	10	ug/L		10/06/95
2,4-Dinitrophenol		ND	50	ug/L		10/06/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/06/95
2-Nitrophenol		ND	10	ug/L		10/06/95
4-Nitrophenol		ND	50	ug/L		10/06/95
Pentachlorophenol		ND	50	ug/L		10/06/95
Phenol		ND	10	ug/L		10/06/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/06/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		90	50	ug/L		10/07/95
Ethylbenzene		ND	50	ug/L		10/07/95
Toluene		ND	50	ug/L		10/07/95
Xylenes (total)		ND	50	ug/L		10/07/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261110

Sample Date.....: 09/26/95

Sample Time.....: 11:10

Sample Matrix.....: Water

Laboratory Sample ID: 954368-6

Date Received.....: 09/27/95

Time Received.....: 10:15

MW-17

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/06/95
Acenaphthylene		ND	10	ug/L		10/06/95
Anthracene		ND	10	ug/L		10/06/95
Benzo(a)anthracene		ND	10	ug/L		10/06/95
Benzo(b)fluoranthene		ND	10	ug/L		10/06/95
Benzo(k)fluoranthene		ND	10	ug/L		10/06/95
Benzo(ghi)perylene		ND	10	ug/L		10/06/95
Benzo(a)pyrene		ND	10	ug/L		10/06/95
Chrysene		ND	10	ug/L		10/06/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/06/95
Fluoranthene		ND	10	ug/L		10/06/95
Fluorene		ND	10	ug/L		10/06/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/06/95
1-Methylnaphthalene		ND	10	ug/L		10/06/95
2-Methylnaphthalene		ND	10	ug/L		10/06/95
Naphthalene		ND	10	ug/L		10/06/95
Phenanthrene		ND	10	ug/L		10/06/95
Pyrene		ND	10	ug/L		10/06/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/06/95
2-Chlorophenol		ND	10	ug/L		10/06/95
2,4-Dichlorophenol		ND	10	ug/L		10/06/95
2,4-Dimethylphenol		ND	10	ug/L		10/06/95
2,4-Dinitrophenol		ND	50	ug/L		10/06/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/06/95
2-Nitrophenol		ND	10	ug/L		10/06/95
4-Nitrophenol		ND	50	ug/L		10/06/95
Pentachlorophenol		ND	50	ug/L		10/06/95
Phenol		ND	10	ug/L		10/06/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/06/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		390	50	ug/L		10/07/95
Ethylbenzene		ND	50	ug/L		10/07/95
Toluene		ND	50	ug/L		10/07/95
Xylenes (total)		ND	50	ug/L		10/07/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261155
Sample Date.....: 09/26/95
Sample Time.....: 11:55
Sample Matrix.....: Water

Laboratory Sample ID: 954368-7
Date Received.....: 09/27/95
Time Received.....: 10:15

MW-14

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Mercury (Hg)	Total	<0.0002	0.0002	mg/L	SW-846 7470	09/30/95
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/04/95
Acenaphthylene		ND	10	ug/L		10/04/95
Anthracene		ND	10	ug/L		10/04/95
Benzo(a)anthracene		ND	10	ug/L		10/04/95
Benzo(b)fluoranthene		ND	10	ug/L		10/04/95
Benzo(k)fluoranthene		ND	10	ug/L		10/04/95
Benzo(ghi)perylene		ND	10	ug/L		10/04/95
Benzo(a)pyrene		ND	10	ug/L		10/04/95
Chrysene		ND	10	ug/L		10/04/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/04/95
Fluoranthene		ND	10	ug/L		10/04/95
Fluorene		ND	10	ug/L		10/04/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/04/95
1-Methylnaphthalene		ND	10	ug/L		10/04/95
2-Methylnaphthalene		ND	10	ug/L		10/04/95
Naphthalene		ND	10	ug/L		10/04/95
Phenanthrene		ND	10	ug/L		10/04/95
Pyrene		ND	10	ug/L		10/04/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/04/95
2-Chlorophenol		ND	10	ug/L		10/04/95
2,4-Dichlorophenol		ND	10	ug/L		10/04/95
2,4-Dimethylphenol		ND	10	ug/L		10/04/95
2,4-Dinitrophenol		ND	50	ug/L		10/04/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/04/95
2-Nitrophenol		ND	10	ug/L		10/04/95
4-Nitrophenol		ND	50	ug/L		10/04/95
Pentachlorophenol		ND	50	ug/L		10/04/95
Phenol		ND	10	ug/L		10/04/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/04/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		5.7	0.5	ug/L		10/07/95
Ethylbenzene		ND	0.5	ug/L		10/07/95
Toluene		ND	0.5	ug/L		10/07/95
Xylenes (total)		ND	0.5	ug/L		10/07/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261235
 Sample Date.....: 09/26/95
 Sample Time.....: 12:35
 Sample Matrix.....: Water

Laboratory Sample ID: 954368-8
 Date Received.....: 09/27/95
 Time Received.....: 10:15

MW-95

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/04/95
Acenaphthylene		ND	10	ug/L		10/04/95
Anthracene		ND	10	ug/L		10/04/95
Benzo(a)anthracene		ND	10	ug/L		10/04/95
Benzo(b)fluoranthene		ND	10	ug/L		10/04/95
Benzo(k)fluoranthene		ND	10	ug/L		10/04/95
Benzo(ghi)perylene		ND	10	ug/L		10/04/95
Benzo(a)pyrene		ND	10	ug/L		10/04/95
Chrysene		ND	10	ug/L		10/04/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/04/95
Fluoranthene		ND	10	ug/L		10/04/95
Fluorene		ND	10	ug/L		10/04/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/04/95
1-Methylnaphthalene		ND	10	ug/L		10/04/95
2-Methylnaphthalene		ND	10	ug/L		10/04/95
Naphthalene		ND	10	ug/L		10/04/95
Phenanthrene		ND	10	ug/L		10/04/95
Pyrene		ND	10	ug/L		10/04/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/04/95
2-Chlorophenol		ND	10	ug/L		10/04/95
2,4-Dichlorophenol		ND	10	ug/L		10/04/95
2,4-Dimethylphenol		ND	10	ug/L		10/04/95
2,4-Dinitrophenol		ND	50	ug/L		10/04/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/04/95
2-Nitrophenol		ND	10	ug/L		10/04/95
4-Nitrophenol		ND	50	ug/L		10/04/95
Pentachlorophenol		ND	50	ug/L		10/04/95
Phenol		ND	10	ug/L		10/04/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/04/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/10/95
Ethylbenzene		ND	0.5	ug/L		10/10/95
Toluene		ND	0.5	ug/L		10/10/95
Xylenes (total)		ND	0.5	ug/L		10/10/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261245

Sample Date.....: 09/26/95

Sample Time.....: 12:45

Sample Matrix.....: Water

Laboratory Sample ID: 954368-9

Date Received.....: 09/27/95

Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/05/95
Ethylbenzene		ND	0.5	ug/L		10/05/95
Toluene		ND	0.5	ug/L		10/05/95
Xylenes (total)		ND	0.5	ug/L		10/05/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Customer Sample ID: 9509261340

Sample Date.....: 09/26/95

Sample Time.....: 13:40

Sample Matrix.....: Water

Laboratory Sample ID: 954368-10

Date Received.....: 09/27/95

Time Received.....: 10:15

MW-3D

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/04/95
Acenaphthylene		ND	10	ug/L		10/04/95
Anthracene		ND	10	ug/L		10/04/95
Benzo(a)anthracene		ND	10	ug/L		10/04/95
Benzo(b)fluoranthene		ND	10	ug/L		10/04/95
Benzo(k)fluoranthene		ND	10	ug/L		10/04/95
Benzo(ghi)perylene		ND	10	ug/L		10/04/95
Benzo(a)pyrene		ND	10	ug/L		10/04/95
Chrysene		ND	10	ug/L		10/04/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/04/95
Fluoranthene		ND	10	ug/L		10/04/95
Fluorene		ND	10	ug/L		10/04/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/04/95
1-Methylnaphthalene		ND	10	ug/L		10/04/95
2-Methylnaphthalene		ND	10	ug/L		10/04/95
Naphthalene		ND	10	ug/L		10/04/95
Phenanthrene		ND	10	ug/L		10/04/95
Pyrene		ND	10	ug/L		10/04/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/04/95
2-Chlorophenol		ND	10	ug/L		10/04/95
2,4-Dichlorophenol		ND	10	ug/L		10/04/95
2,4-Dimethylphenol		ND	10	ug/L		10/04/95
2,4-Dinitrophenol		ND	50	ug/L		10/04/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/04/95
2-Nitrophenol		ND	10	ug/L		10/04/95
4-Nitrophenol		ND	50	ug/L		10/04/95
Pentachlorophenol		ND	50	ug/L		10/04/95
Phenol		ND	10	ug/L		10/04/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/04/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/05/95
Ethylbenzene		ND	0.5	ug/L		10/05/95
Toluene		ND	0.5	ug/L		10/05/95
Xylenes (total)		ND	0.5	ug/L		10/05/95



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Method.....: SW-846 7470
Description.: Mercury (CVAA)
Parameter...: Mercury (Hg)

Batch.....: 2335
Detection Limit...: 0.0002
Units.....: mg/L

Analyst....: lmt

QC	Lab ID	M	Reagent	QC Result	Dil. Value	Orig. Value	Alt. Value	Calculation	Result	Analyzed
ICV			950911B	0.00407	0.004000			% REC	101.8	09/30/95 1115
ICB				0.00006						09/30/95 1117
MD	954371-1	T		0.00013		0.00013		ABS Diff.	0.00000	09/30/95 1120
MS	957371-7	T	950929C	0.00506	0.005000	0.00006		% REC	100.0	09/30/95 1123
MB				0.00019						09/30/95 1132
SB			950929C	0.00536	0.005000	0.00019		% REC	107.2	09/30/95 1133
CCV			1013P	0.00264	0.002500			% REC	105.6	09/30/95 1135
CCB				-0.00001						09/30/95 1137
SBD			950929C	0.00496	0.005000	0.00019	0.00536	% REC RPD	99.2 7.8	09/30/95 1138
								% REC	96.4	09/30/95 1155
CCV			1013P	0.00241	0.002500					09/30/95 1157
CCB				-0.00004						09/30/95 1202
MD	954367-1	D		0.00006		0.00009		ABS Diff.	0.00003	09/30/95 1205
MS	954367-2	D	950929C	0.00506	0.005000	-0.00005		% REC	102.2	09/30/95 1215
CCV			1013P	0.00237	0.002500			% REC	94.8	09/30/95 1217
CCB				0.00002						09/30/95 1220
MB				0.00002						09/30/95 1222
EB				-0.00001						09/30/95 1225
DD	954329-1			0.00053		0.00030		ABS Diff.	0.00023	09/30/95 1227
ED	954329-1			0.00033		0.00030		ABS Diff.	0.00003	09/30/95 1228
SB			950929C	0.00509	0.005000			% REC	101.8	09/30/95 1232
MS	954329-1		950929C	0.00502	0.005000	0.00030		% REC	94.4	09/30/95 1233
CCV			1013P	0.00264	0.002500			% REC	105.6	09/30/95 1235
CCB				0.00006						09/30/95 1235



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Method: SW-846 8020

Batch.....: 2704

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/05/95	1325
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					

SB	Spiked Blank		T100595B			10/05/95	1129
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.4	0.5	20.0			% REC	107.0
Ethylbenzene	21.0	0.5	20.0			% REC	105.0
Toluene	21.1	0.5	20.0			% REC	105.5
Xylenes (total)	62.0	0.5	60.0			% REC	103.3

SBD	Spiked Blank Duplicate		T100595B			10/05/95	1207
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	20.6	0.5	20.0		21.4	% REC RPD	103.0 3.8
Ethylbenzene	20.1	0.5	20.0		21.0	% REC RPD	100.5 4.4
Toluene	20.3	0.5	20.0		21.1	% REC RPD	101.5 3.9
Xylenes (total)	60.0	0.5	60.0		62.0	% REC RPD	100.0 3.3

Method: SW-846 8020

Batch.....: 2705

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/06/95	1024
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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SB	Spiked Blank	T1100695B			10/06/95	1643
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0			% REC	108.5
Ethylbenzene	21.1	0.5	20.0			% REC	105.5
Toluene	21.5	0.5	20.0			% REC	107.5
Xylenes (total)	63.1	0.5	60.0			% REC	105.2

SBD	Spiked Blank Duplicate	T1100695B				10/06/95	1720
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0		21.7	% REC RPD	108.5 0.0
Ethylbenzene	21.1	0.5	20.0		21.1	% REC RPD	105.5 0.0
Toluene	21.4	0.5	20.0		21.5	% REC RPD	107.0 0.5
Xylenes (total)	62.9	0.5	60.0		63.1	% REC RPD	104.8 0.3

Method: SW-846 8020

Batch.....: 2707

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/09/95	1151
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					

Method: SW-846 8020

Batch.....: 2708

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/10/95	1325
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Method: SW-846 8270

Batch.....: 2797

Analyst: mla

Method Description.: Semivolatile Organics (Client List)

Units.....: ug/L

MB	Method Blank	MB0744				10/04/95	1923
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Acenaphthene	ND	10					
Acenaphthylene	ND	10					
Anthracene	ND	10					
Benzo(a)anthracene	ND	10					
Benzo(b)fluoranthene	ND	10					
Benzo(k)fluoranthene	ND	10					
Benzo(ghi)perylene	ND	10					
Benzo(a)pyrene	ND	10					
Chrysene	ND	10					
Dibenzo(a,h)anthracene	ND	10					
Fluoranthene	ND	10					
Fluorene	ND	10					
Indeno(1,2,3-cd)pyrene	ND	10					
1-Methylnaphthalene	ND	10					
2-Methylnaphthalene	ND	10					
Naphthalene	ND	10					
Phenanthrene	ND	10					
Pyrene	ND	10					
4-Chloro-3-methylphenol	ND	10					
2-Chlorophenol	ND	10					
2,4-Dichlorophenol	ND	10					
2,4-Dimethylphenol	ND	10					
2,4-Dinitrophenol	ND	50					
2-Methyl-4,6-dinitrophenol	ND	50					
2-Nitrophenol	ND	10					
4-Nitrophenol	ND	50					
Pentachlorophenol	ND	50					
Phenol	ND	10					
2,4,6-Trichlorophenol	ND	10					

Method: SW-846 8270

Batch.....: 2798

Analyst: mla

Method Description.: Semivolatile Organics (Client List)

Units.....: ug/L

MB	Method Blank	MB0745				10/06/95	1659
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Acenaphthene	ND	10					
Acenaphthylene	ND	10					
Anthracene	ND	10					
Benzo(a)anthracene	ND	10					
Benzo(b)fluoranthene	ND	10					
Benzo(k)fluoranthene	ND	10					
Benzo(ghi)perylene	ND	10					
Benzo(a)pyrene	ND	10					



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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MB	Method Blank		MB0745			10/06/95 1659
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Chrysene	ND	10					
Dibenzo(a,h)anthracene	ND	10					
Fluoranthene	ND	10					
Fluorene	ND	10					
Indeno(1,2,3-cd)pyrene	ND	10					
1-Methylnaphthalene	ND	10					
2-Methylnaphthalene	ND	10					
Naphthalene	ND	10					
Phenanthrene	ND	10					
Pyrene	ND	10					
4-Chloro-3-methylphenol	ND	10					
2-Chlorophenol	ND	10					
2,4-Dichlorophenol	ND	10					
2,4-Dimethylphenol	ND	10					
2,4-Dinitrophenol	ND	50					
2-Methyl-4,6-dinitrophenol	ND	50					
2-Nitrophenol	ND	10					
4-Nitrophenol	ND	50					
Pentachlorophenol	ND	50					
Phenol	ND	10					
2,4,6-Trichlorophenol	ND	10					



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Method.....: SW-846

Method Code.....: 8020

Batch.....: 2704

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.8	20.0800	98.6		10/05/95	1325
		SB	19.0	20.0800	94.6		10/05/95	1129
		SBD	19.1	20.0800	95.1		10/05/95	1207
954368-2			19.7	20.0800	98.1		10/05/95	1402
954368-4			19.7	20.0800	98.1		10/05/95	1440
954368-9			19.7	20.0800	98.1		10/05/95	1517
954368-10			19.8	20.0800	98.6		10/05/95	1555
954368-1			17.8	20.0800	88.6		10/05/95	1636

Method.....: SW-846

Method Code.....: 8020

Batch.....: 2705

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.5	20.0800	97.1		10/06/95	1024
		SB	19.2	20.0800	95.6		10/06/95	1643
		SBD	19.0	20.0800	94.6		10/06/95	1720
954368-7			19.4	20.0800	96.6		10/07/95	0240
954368-5			20.0	20.0800	99.6		10/07/95	0432
954368-6			18.4	20.0800	91.6		10/07/95	0509

Method.....: SW-846

Method Code.....: 8020

Batch.....: 2707

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.8	20.0800	98.6		10/09/95	1151
954368-3			18.9	20.0800	94.1		10/09/95	1420



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Method.....: SW-846

Batch.....: 2708

Method Code.....: 8020

Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954368-8		MB	19.7	20.0800	98.1		10/10/95	1325
			19.4	20.0800	96.6		10/10/95	1547

Method.....: SW-846

Batch.....: 2797

Method Code.....: 8270C

Analyst.....: mla

Surrogate	Dilution Factor	Units
2,4,6-Tribromophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954368-7 954368-8 954368-10		MB	78.35	100.0100	78		10/04/95	1923
			86.26	100.0100	86		10/04/95	2025
			95.03	100.0100	95		10/04/95	2127
			82.07	100.0100	82		10/04/95	2228

Surrogate	Dilution Factor	Units
2-Fluorobiphenyl		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954368-7 954368-8 954368-10		MB	34.22	50.0100	68		10/04/95	1923
			36.49	50.0100	73		10/04/95	2025
			40.46	50.0100	81		10/04/95	2127
			38.03	50.0100	76		10/04/95	2228

Surrogate	Dilution Factor	Units
2-Fluorophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
954368-7 954368-8 954368-10		MB	47.91	100.0000	48		10/04/95	1923
			50.40	100.0000	50		10/04/95	2025
			51.84	100.0000	52		10/04/95	2127
			50.90	100.0000	51		10/04/95	2228



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
Nitrobenzene-d5		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	34.88	50.0500	70		10/04/95	1923
954368-7			36.94	50.0500	74		10/04/95	2025
954368-8			39.58	50.0500	79		10/04/95	2127
954368-10			36.51	50.0500	73		10/04/95	2228

Surrogate	Dilution Factor	Units
Phenol-d6		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	25.70	100.0200	26		10/04/95	1923
954368-7			31.45	100.0200	31		10/04/95	2025
954368-8			30.20	100.0200	30		10/04/95	2127
954368-10			29.60	100.0200	30		10/04/95	2228

Surrogate	Dilution Factor	Units
Terphenyl-d14		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	44.58	50.0000	89		10/04/95	1923
954368-7			39.97	50.0000	80		10/04/95	2025
954368-8			50.88	50.0000	102		10/04/95	2127
954368-10			42.32	50.0000	85		10/04/95	2228

Method.....: SW-846

Batch.....: 2798

Method Code.....: 8270C

Analyst.....: mla

Surrogate	Dilution Factor	Units
2,4,6-Tribromophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	81.64	100.0100	82		10/06/95	1659
954369-1			101.32	100.0100	101		10/06/95	1800
954368-6			101.13	100.0100	101		10/06/95	1902
954368-5			102.17	100.0100	102		10/06/95	2004
954368-5			97.96	100.0100	98		10/09/95	0014



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
2-Fluorobiphenyl		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	29.81	50.0100	60		10/06/95	1659
954369-1			41.36	50.0100	83		10/06/95	1800
954368-6			35.99	50.0100	72		10/06/95	1902
954368-5			39.95	50.0100	80		10/06/95	2004
954368-5			39.35	50.0100	79		10/09/95	0014

Surrogate	Dilution Factor	Units
2-Fluorophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	48.22	100.0000	48		10/06/95	1659
954369-1			47.16	100.0000	47		10/06/95	1800
954368-6			61.68	100.0000	62		10/06/95	1902
954368-5			73.95	100.0000	74		10/06/95	2004
954368-5			69.92	100.0000	70		10/09/95	0014

Surrogate	Dilution Factor	Units
Nitrobenzene-d5		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	29.32	50.0500	59		10/06/95	1659
954369-1			40.51	50.0500	81		10/06/95	1800
954368-6			34.42	50.0500	69		10/06/95	1902
954368-5			41.99	50.0500	84		10/06/95	2004
954368-5			41.83	50.0500	84		10/09/95	0014

Surrogate	Dilution Factor	Units
Phenol-d6		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	49.78	100.0200	50		10/06/95	1659
954369-1			60.24	100.0200	60		10/06/95	1800
954368-6			76.31	100.0200	76		10/06/95	1902
954368-5			85.84	100.0200	86		10/06/95	2004
954368-5			78.55	100.0200	79		10/09/95	0014



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954368

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9424

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
Terphenyl-d14		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	44.72	50.0000	89		10/06/95	1659
954369-1			39.94	50.0000	80		10/06/95	1800
954368-6			50.43	50.0000	101		10/06/95	1902
954368-5			119.26	50.0000	239	X	10/06/95	2004
954368-5			133.66	50.0000	267	X	10/09/95	0014



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

Volatile Organics

Method 602/8020

Surrogate Recovery Limits

	Water	Soil
Bromofluorobenzene	89-110%	78-123%
Spike/Spike Duplicate Recovery Limits		
	Water	Soil
Benzene	75-125%	75-125%
Ethylbenzene	75-125%	75-125%
Toluene	75-125%	75-125%
Xylenes	75-125%	75-125%

Method 8015 Modified

Spike/Spike Duplicate Recovery Limits

	Water	Soil
TVPH	81-124%	81-124%
TEPH	54-135%	54-135%

Method 624/8240/8260

Surrogate Recovery Limits

	Water	Soil
Dibromofluoromethane	86-118%	80-120%
Toluene-(d8)	88-110%	81-117%
4-Bromofluorobenzene	86-115%	74-121%

Spike/Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21

Pesticides/PCB Organics

Method 608/8080

Surrogate Recovery Limits

	Water	Soil
Tetrachloro-m-xylene	60-150%	60-150%
4,4'-Dichlorobiphenyl	60-150%	60-150%

Method 8140

Surrogate Recovery Limits

	Water	Soil
Tributylphosphate	36-152%	36-152%
Triphenylphosphate	40-152%	40-152%

Base/Neutral/Acid Organics

Method 625/8270

Surrogate Recovery Limits

	Water	Soil
Nitrobenzene-d5	35-114%	23-120%
2-Fluorobiphenyl	43-116%	30-115%
4-Terphenyl-d14	33-141%	18-137%
Phenol-d6	10-94%	24-113%
2-Fluorophenol	21-100%	25-121%
2,4,6-Tribromophenol	10-123%	19-122%



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

Matrix Spike/Matrix Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dinitrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36



CORE LABORATORIES

QUALITY ASSURANCE METHODS REFERENCES AND NOTES

Report Date: 10/30/95

- (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, 1989
- (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 600/4-88-03, Methods For The Determination of Organics Compounds in Drinking Water, December 1988
- (8) U.S.G.S. Methods For 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 & 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 Rocks; Building Stones, 1981

Comments: Data in the 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



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
SB	Spiked Blank
SBD	Spike Blank Duplicate

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 Interface Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

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

CODE

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

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- 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.



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

- This flag is also used when estimating the concentration of a tentatively identified compound.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
 - Y - Used to identify a spike or spike duplicate recovery that is outside the specified quality control limits.
 - Z - Indicates a relative percent difference for a spike and spike duplicate is outside the specified quality control limits.
 - * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
 - ^ - Used to indicate that a standard is outside specified quality control limits.

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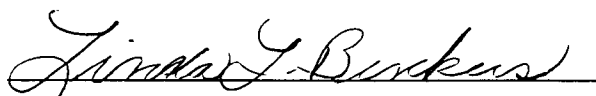
CORE LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 954369

Prepared For:
Geoscience Consultants, Ltd.
Annette Montoya
505 Marquette NW
Suite 1100

Albuquerque, NM 87102

Date: 10/30/95

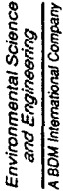

Signature

Name: Linda L. Benkers

Title: QA/QC Coordinator

10-30-95
Date

CORE LABORATORIES, INC.
Analytical Chemistry Division
10703 East Bethany Drive
Aurora, CO 80014



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FAX: (505) 524-5315

Distribution: White, Canary-Laboratory • Pink, GCL



CORE LABORATORIES

JOB SAMPLE INFORMATION

Report Date: 10/30/95

Job Number.....: 954369

Customer: Geoscience Consultants, Ltd.

Job Received Date....: 09/27/95

Project Number.....: 95000161

Customer Project ID....: REXENE COC #9425

Project Description....: GCL Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
954369-1	9509261415	Water	09/26/95	14:15	09/27/95	10:15
954369-2	9509261430	Water	09/26/95	14:30	09/27/95	10:15
954369-3	9509261440	Water	09/26/95	14:40	09/27/95	10:15
954369-4	9509261450	Water	09/26/95	14:50	09/27/95	10:15
954369-5	9509261500	Water	09/26/95	15:00	09/27/95	10:15



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Customer Sample ID: 9509261415

Sample Date.....: 09/26/95

Sample Time.....: 14:15

Sample Matrix.....: Water

Laboratory Sample ID: 954369-1

Date Received.....: 09/27/95

Time Received.....: 10:15

mw-35

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Extraction (Sep. Funnel) SVOC Separatory Funnel Liq/Liq Extraction		Complete		mL	SW-846 3510	10/03/95
Semivolatile Organics (Client List)					SW-846 8270	
Acenaphthene		ND	10	ug/L		10/06/95
Acenaphthylene		ND	10	ug/L		10/06/95
Anthracene		ND	10	ug/L		10/06/95
Benzo(a)anthracene		ND	10	ug/L		10/06/95
Benzo(b)fluoranthene		ND	10	ug/L		10/06/95
Benzo(k)fluoranthene		ND	10	ug/L		10/06/95
Benzo(ghi)perylene		ND	10	ug/L		10/06/95
Benzo(a)pyrene		ND	10	ug/L		10/06/95
Chrysene		ND	10	ug/L		10/06/95
Dibenzo(a,h)anthracene		ND	10	ug/L		10/06/95
Fluoranthene		ND	10	ug/L		10/06/95
Fluorene		ND	10	ug/L		10/06/95
Indeno(1,2,3-cd)pyrene		ND	10	ug/L		10/06/95
1-Methylnaphthalene		ND	10	ug/L		10/06/95
2-Methylnaphthalene		ND	10	ug/L		10/06/95
Naphthalene		ND	10	ug/L		10/06/95
Phenanthrene		ND	10	ug/L		10/06/95
Pyrene		ND	10	ug/L		10/06/95
4-Chloro-3-methylphenol		ND	10	ug/L		10/06/95
2-Chlorophenol		ND	10	ug/L		10/06/95
2,4-Dichlorophenol		ND	10	ug/L		10/06/95
2,4-Dimethylphenol		ND	10	ug/L		10/06/95
2,4-Dinitrophenol		ND	50	ug/L		10/06/95
2-Methyl-4,6-dinitrophenol		ND	50	ug/L		10/06/95
2-Nitrophenol		ND	10	ug/L		10/06/95
4-Nitrophenol		ND	50	ug/L		10/06/95
Pentachlorophenol		ND	50	ug/L		10/06/95
Phenol		ND	10	ug/L		10/06/95
2,4,6-Trichlorophenol		ND	10	ug/L		10/06/95
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/06/95
Ethylbenzene		ND	0.5	ug/L		10/06/95
Toluene		ND	0.5	ug/L		10/06/95
Xylenes (total)		ND	0.5	ug/L		10/06/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Customer Sample ID: 9509261430
Sample Date.....: 09/26/95
Sample Time.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 954369-2
Date Received.....: 09/27/95
Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/06/95
Ethylbenzene		ND	0.5	ug/L		10/06/95
Toluene		ND	0.5	ug/L		10/06/95
Xylenes (total)		ND	0.5	ug/L		10/06/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Customer Sample ID: 9509261440

Sample Date.....: 09/26/95

Sample Time.....: 14:40

Sample Matrix.....: Water

Laboratory Sample ID: 954369-3

Date Received.....: 09/27/95

Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/06/95
Ethylbenzene		ND	0.5	ug/L		10/06/95
Toluene		ND	0.5	ug/L		10/06/95
Xylenes (total)		ND	0.5	ug/L		10/06/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Customer Sample ID: 9509261450

Sample Date.....: 09/26/95

Sample Time.....: 14:50

Sample Matrix.....: Water

Laboratory Sample ID: 954369-4

Date Received.....: 09/27/95

Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/07/95
Ethylbenzene		ND	0.5	ug/L		10/07/95
Toluene		ND	0.5	ug/L		10/07/95
Xylenes (total)		ND	0.5	ug/L		10/07/95



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Customer Sample ID: 9509261500
Sample Date.....: 09/26/95
Sample Time.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 954369-5
Date Received.....: 09/27/95
Time Received.....: 10:15

TEST DESCRIPTION	TEST MATRIX	FINAL RESULT	DETECTION LIMIT	UNITS	TEST METHOD	ANALYZED
Volatile Organics -Aromatics					SW-846 8020	
Benzene		ND	0.5	ug/L		10/06/95
Ethylbenzene		ND	0.5	ug/L		10/06/95
Toluene		ND	0.5	ug/L		10/06/95
Xylenes (total)		ND	0.5	ug/L		10/06/95



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Method: SW-846 8020

Batch.....: 2591

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/06/95	1024
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Toluene	ND	0.5					
Xylenes (total)	ND	0.5					

SB	Spiked Blank	T100695B				10/06/95	1643
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0			% REC	108.5
Ethylbenzene	21.1	0.5	20.0			% REC	105.5
Toluene	21.5	0.5	20.0			% REC	107.5
Xylenes (total)	63.1	0.5	60.0			% REC	105.2

SBD	Spiked Blank Duplicate	T100695B				10/06/95	1720
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Benzene	21.7	0.5	20.0		21.7	% REC RPD	108.5 0.0
Ethylbenzene	21.1	0.5	20.0		21.1	% REC RPD	105.5 0.0
Toluene	21.4	0.5	20.0		21.5	% REC RPD	107.0 0.5
Xylenes (total)	62.9	0.5	60.0		63.1	% REC RPD	104.8 0.3

Method: SW-846 8270

Batch.....: 2798

Analyst: mla

Method Description.: Semivolatile Organics (Client List)

Units.....: ug/L

MB	Method Blank	MB0745				10/06/95	1659
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Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Acenaphthene	ND	10					
Acenaphthylene	ND	10					
Anthracene	ND	10					
Benzo(a)anthracene	ND	10					
Benzo(b)fluoranthene	ND	10					
Benzo(k)fluoranthene	ND	10					
Benzo(ghi)perylene	ND	10					
Benzo(a)pyrene	ND	10					
Chrysene	ND	10					



CORE LABORATORIES

QUALITY CONTROL REPORT

Job Number: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

MB	Method Blank	MB0745			10/06/95	1659
----	--------------	--------	--	--	----------	------

Test Description	QC Result	Det. Limit	True Value	Orig. Value	Alt. Value	Calc	Result
Dibenzo(a,h)anthracene	ND	10					
Fluoranthene	ND	10					
Fluorene	ND	10					
Indeno(1,2,3-cd)pyrene	ND	10					
1-Methylnaphthalene	ND	10					
2-Methylnaphthalene	ND	10					
Naphthalene	ND	10					
Phenanthrene	ND	10					
Pyrene	ND	10					
4-Chloro-3-methylphenol	ND	10					
2-Chlorophenol	ND	10					
2,4-Dichlorophenol	ND	10					
2,4-Dimethylphenol	ND	10					
2,4-Dinitrophenol	ND	50					
2-Methyl-4,6-dinitrophenol	ND	50					
2-Nitrophenol	ND	10					
4-Nitrophenol	ND	50					
Pentachlorophenol	ND	50					
Phenol	ND	10					
2,4,6-Trichlorophenol	ND	10					



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Method.....: SW-846
Method Code.....: 8020Batch.....: 2591
Analyst.....: dmj

Surrogate	Dilution Factor	Units
BFB (Surrogate)	3.5	ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	19.5	20.0800	97.1		10/06/95	1024
		SB	19.2	20.0800	95.6		10/06/95	1643
		SBD	19.0	20.0800	94.6		10/06/95	1720
954369-5			19.4	20.0800	96.6		10/06/95	1101
954369-1			19.8	20.0800	98.6		10/06/95	2229
954369-2			19.4	20.0800	96.6		10/06/95	2259
954369-3			19.5	20.0800	97.1		10/06/95	2335
954369-4			19.5	20.0800	97.1		10/07/95	0012

Method.....: SW-846
Method Code.....: 8270CBatch.....: 2798
Analyst.....: mla

Surrogate	Dilution Factor	Units
2,4,6-Tribromophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	81.64	100.0100	82		10/06/95	1659
954369-1			101.32	100.0100	101		10/06/95	1800
954368-6			101.13	100.0100	101		10/06/95	1902
954368-5			102.17	100.0100	102		10/06/95	2004
954368-5			97.96	100.0100	98		10/09/95	0014

Surrogate	Dilution Factor	Units
2-Fluorobiphenyl		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	29.81	50.0100	60		10/06/95	1659
954369-1			41.36	50.0100	83		10/06/95	1800
954368-6			35.99	50.0100	72		10/06/95	1902
954368-5			39.95	50.0100	80		10/06/95	2004
954368-5			39.35	50.0100	79		10/09/95	0014



CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 954369

Report Date: 10/30/95

CUSTOMER: Geoscience Consultants, Ltd.

PROJECT: REXENE COC #9425

ATTN: Annette Montoya

Surrogate	Dilution Factor	Units
2-Fluorophenol		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	48.22	100.0000	48		10/06/95	1659
954369-1			47.16	100.0000	47		10/06/95	1800
954368-6			61.68	100.0000	62		10/06/95	1902
954368-5			73.95	100.0000	74		10/06/95	2004
954368-5			69.92	100.0000	70		10/09/95	0014

Surrogate	Dilution Factor	Units
Nitrobenzene-d5		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	29.32	50.0500	59		10/06/95	1659
954369-1			40.51	50.0500	81		10/06/95	1800
954368-6			34.42	50.0500	69		10/06/95	1902
954368-5			41.99	50.0500	84		10/06/95	2004
954368-5			41.83	50.0500	84		10/09/95	0014

Surrogate	Dilution Factor	Units
Phenol-d6		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	49.78	100.0200	50		10/06/95	1659
954369-1			60.24	100.0200	60		10/06/95	1800
954368-6			76.31	100.0200	76		10/06/95	1902
954368-5			85.84	100.0200	86		10/06/95	2004
954368-5			78.55	100.0200	79		10/09/95	0014

Surrogate	Dilution Factor	Units
Terphenyl-d14		ug/L

Lab ID	Matrix	QC Type	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	44.72	50.0000	89		10/06/95	1659
954369-1			39.94	50.0000	80		10/06/95	1800
954368-6			50.43	50.0000	101		10/06/95	1902
954368-5			119.26	50.0000	239	X	10/06/95	2004
954368-5			133.66	50.0000	267	X	10/09/95	0014



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

Volatile Organics

Method 602/8020

Surrogate Recovery Limits

	Water	Soil
Bromofluorobenzene	89-110%	78-123%

Spike/Spike Duplicate Recovery Limits

	Water	Soil
Benzene	75-125%	75-125%
Ethylbenzene	75-125%	75-125%
Toluene	75-125%	75-125%
Xylenes	75-125%	75-125%

Method 8015 Modified

Spike/Spike Duplicate Recovery Limits

	Water	Soil
TVPH	81-124%	81-124%
TEPH	54-135%	54-135%

Method 624/8240/8260

Surrogate Recovery Limits

	Water	Soil
Dibromofluoromethane	86-118%	80-120%
Toluene-(d8)	88-110%	81-117%
4-Bromofluorobenzene	86-115%	74-121%

Spike/Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21

Pesticides/PCB Organics

Method 608/8080

Surrogate Recovery Limits

	Water	Soil
Tetrachloro-m-xylene	60-150%	60-150%
4,4'-Dichlorobiphenyl	60-150%	60-150%

Method 8140

Surrogate Recovery Limits

	Water	Soil
Tributylphosphate	36-152%	36-152%
Triphenylphosphate	40-152%	40-152%

Base/Neutral/Acid Organics

Method 625/8270

Surrogate Recovery Limits

	Water	Soil
Nitrobenzene-d5	35-114%	23-120%
2-Fluorobiphenyl	43-116%	30-115%
4-Terphenyl-d14	33-141%	18-137%
phenol-d6	10-94%	24-113%
2-Fluorophenol	21-100%	25-121%
2,4,6-Tribromophenol	10-123%	19-122%



CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/95

Matrix Spike/Matrix Spike Duplicate Recovery & RPD Limits

	Water		Soil	
	Recovery	RPD	Recovery	RPD
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dinitrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36



CORE LABORATORIES

QUALITY ASSURANCE METHODS

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- (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, 1989
- (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 600/4-88-03, Methods For The Determination of Organics Compounds in Drinking Water, December 1988
- (8) U.S.G.S. Methods For 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 & 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 Rocks; Building Stones, 1981

Comments: Data in the 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



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MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion Spike
SB	Spiked Blank
SBD	Spike Blank Duplicate

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 Interface Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

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

CODE

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

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- 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.



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- This flag is also used when estimating the concentration of a tentatively identified compound.
- X - Indicates that a surrogate recovery is outside the specified quality control limits.
 - Y - Used to identify a spike or spike duplicate recovery that is outside the specified quality control limits.
 - Z - Indicates a relative percent difference for a spike and spike duplicate is outside the specified quality control limits.
 - * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
 - ^ - Used to indicate that a standard is outside specified quality control limits.