

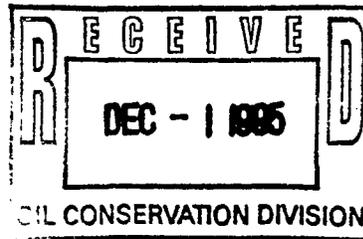
AP - 001

**ANNUAL
MONITORING REPORT**

YEAR(S):
1995 - Jun-Sept.

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)

A handwritten signature in cursive script, appearing to read "Trent H. Thomas".

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

GA:308115QPAHHSUM.WQ2

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

G:\9031\SQPHNSUM.WQ2

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	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

G:\30315QPAHSUM.W02

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

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						

G:\90315Q\PAHSUM.WQ2

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

G:\3031\SO\PHNSUM.W02

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	ND
2-Chlorophenol	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Phenol	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	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

G:\3031\SQPHNSUM.W02



RECEIVED JUL 12 1995

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

RECEIVED JUL 1 4 1995

No 8373

Chain of Custody

Date 6/21/95 Page 1 of 1

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

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

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



Analysis Request

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

Samplers (SIGNATURES) [Signature]

Sample Number	Matrix	Location
9506210900	H2O	WP-1
9506210945	H2O	WP-3
9506211030	H2O	WP-12
9506211045	H2O	WP-13
9506211055	H2O	WP-29
9506211110	H2O	WP-21
9506211120	H2O	WP-23
9506211130	H2O	WP-4
9506211145	H2O	WP-6
9506211205	H2O	WP-5

Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Poly-nuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9080	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1 TPH/BTEX Modified 8015	TCLP - Vol., Semi-Vol. Herbicides, Pesticides	TCLP - Metals	RCRA Metals (9)	Priority Pollutant Metals (13)	CAM Metals (19) TML/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers
✓ 3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Project Information	Sample Receipt			1. Relinquished By			2. Relinquished By			3. Relinquished By				
	Total No. of Containers	Chain of Custody Seals	Rec'd Good Condition/Cold	Conforms to Record	Lab No.	(Signature)	(Date)	(Company)	(Signature)	(Date)	(Company)	(Signature)	(Date)	(Company)
Project <u>PEXENE</u>	<u>30</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>951428</u>	<u>[Signature]</u>	<u>1535</u>	<u>[Signature]</u>						
Project Director <u>TRENT</u>						<u>DAVID NEE</u>	<u>6/21/95</u>	<u>[Signature]</u>						
Charge Code No. <u>3031-006</u>						<u>GCL</u>		<u>[Signature]</u>						
Shipping ID. No. <u>3238365712</u>								<u>[Signature]</u>						
Via: <u>FED X</u>								<u>[Signature]</u>						
Special Instructions/Comments:								<u>[Signature]</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
Aurora, CO 80014
(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

LABORATORY I.D.: 951428-0002

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 09:45

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506210945

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				

10703 East Bethany Drive
Aurora, CO 80014
(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

LABORATORY I.D.: 951428-0003

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 10:30

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211030

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				

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

A



CORE LABORATORIES

LABORATORY TESTS RESULTS
07/10/95

JOB NUMBER: 951428 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC #8373 LABORATORY I.D.: 951428-0004
 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/23/95
 TIME SAMPLED: 10:45 TIME RECEIVED: 11:00
 WORK DESCRIPTION: 9506211045 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				

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

A

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

LABORATORY I.D.: 951428-0005

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 10:55

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211055

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	DNJ
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				

10703 East Bethany Drive
Aurora, CO 80014
(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

LABORATORY I.D.: 951428-0006

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 11:10

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211110

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				

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

A



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				

10703 East Bethany Drive
Aurora, CO 80014
(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

LABORATORY I.D.: 951428-0008

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 11:30

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211130

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				

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #8373

LABORATORY I.D.: 951428-0009

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 11:45

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211145

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				

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

A



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428 CUSTOMER: GEOSCIENCE CONSULTANTS, LTD. ATTN:

CLIENT I.D.: REXENE COC #8373 LABORATORY I.D.: 951428-0010
 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/23/95
 TIME SAMPLED: 12:05 TIME RECEIVED: 11:00
 WORK DESCRIPTION: 9506211205 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				

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



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				

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



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				

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



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				

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



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

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

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)	07/01/95	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				

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



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/95

JOB NUMBER: 951428

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

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

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				

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



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

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	0810 0851	1 1	0 0	0 0	

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



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

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



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

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



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

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	0819 0854	1 1	0 0	0 0	

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



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

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



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

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	

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



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

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



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

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	MS (1428)	1612	1	0	0	
	MS (1429)	1647	1	0	0	
	MS (1430)	1722	1	0	0	
	MS (1431)	1757	1	0	0	

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



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

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



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:

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

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



RECEIVED JUL 12 1995

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

RECEIVED JUL 1 2 1995



Environmental Science and Engineering
A BDM International Company

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

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

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

No 8374

Chain of Custody

Date 6/21/95 Page 1 of 1

Lab Name <u>CORE LABORATORIES</u>		Analysis Request													1. Relinquished By				2. Relinquished By				3. Relinquished By					
Address <u>10703 East Bethany Drive</u>		Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polyuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1 TP/HTX Modified 8015	TCLP - Vol, Semi-Vol, Herbicides, Pesticides	TCLP - Metals	RCRA Metals(9)	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		
Project <u>REXENE</u>	Project Director <u>TRENT T.</u>	Charge Code No. <u>5031-006</u>	Shipping ID. No. <u>3238365712</u>	Sample Receipt Total No. of Containers <u>33</u>	Chain of Custody Seals <u>OK</u>	Rec'd Good Condition/Cold <u>OK</u>	Conforms to Record <u>OK</u>	Lab No. <u>951431</u>	Received By (Signature) <u>DAVID NEE</u>	Received By (Date) <u>6/21/95</u>	Relinquished By (Signature) <u>DAVID NEE</u>	Relinquished By (Date) <u>6/21/95</u>	Received By (Signature) <u>DAVID NEE</u>	Received By (Date) <u>6/21/95</u>	Relinquished By (Signature) <u>DAVID NEE</u>	Relinquished By (Date) <u>6/21/95</u>	Received By (Signature) <u>DAVID NEE</u>	Received By (Date) <u>6/21/95</u>	Relinquished By (Signature) <u>DAVID NEE</u>	Relinquished By (Date) <u>6/21/95</u>	Received By (Signature) <u>DAVID NEE</u>	Received By (Date) <u>6/21/95</u>	Relinquished By (Signature) <u>DAVID NEE</u>	Relinquished By (Date) <u>6/21/95</u>	Received By (Signature) <u>DAVID NEE</u>	Received By (Date) <u>6/21/95</u>	Relinquished By (Signature) <u>DAVID NEE</u>	Relinquished By (Date) <u>6/21/95</u>
Via: <u>FED X</u>				Special Instructions/Comments:				Special Instructions/Comments:				Special Instructions/Comments:				Special Instructions/Comments:				Special Instructions/Comments:								

Distribution: White, Canary-Laboratory - Pink, GCL



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.: 951431-0001

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 12:20

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211220

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				

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



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				

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

C



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.: 951431-0003

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 13:35

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211335

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				

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



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				

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



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.: 951431-0005

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 14:00

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211400

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				

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



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		

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



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				

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



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		

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



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				

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



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.: 951431-0008

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 15:45

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211545

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		

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



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.: 951431-0008

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 15:45

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211545

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				

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



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.: 951431-0009

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 15:50

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211550

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				

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



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.: 951431-0010

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 10:40

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506221040

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				

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



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		

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



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) Time Analyzed Date Extracted	103 2009 06/26/95	0 0 0	% Recovery	10-123% Limit		

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



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				

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



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....: 951431-0013
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				

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



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				

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



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	1147	1	0	0	
	SBD	1229	1	0	0	

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



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

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



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

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	0819	1	0	0	
	SBD	0854	1	0	0	

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



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	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

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



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	1453	1	0	0	
	SBD	1536	1	0	0	

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



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

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



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

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	MS (1428)	1612	1	0	0	
	MS (1429)	1647	1	0	0	
	MS (1430)	1722	1	0	0	
	MS (1431)	1757	1	0	0	

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



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

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



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:

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

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



RECEIVED JUL 14 1995

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

Linda L. Benkers
Signature

7-13-95
Date:

Name: Linda L. Benkers

Core Laboratories
10703 East Bethany Drive
Aurora, CO 80014

Title: QA/QC Coordinator

RECEIVED JUL 14 1995



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

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

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

No 9051

Chain of Custody

Date 6/21/95 Page 1 of 1

Lab Name		Address		Telephone	Analysis Request																Sample Receipt										
CORE LABORATORIES		10703 East Bethany Drive		303/751-1780																											
Samplers (SIGNATURES)					Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 603/8040	Pesticides/PCB 604/8080	Polyuclear 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 (8)	Priority Pollutant Metals (13)	CAM Metals (18) Tl/Cd/Pb	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers	
D. Nee					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																		Reinquired By								
Project <u>REXENE</u>					Total No. of Containers																		1. Reinquired By								
Project Director <u>TRENT T.</u>					Chain of Custody Seals																		Signature <u>D. Nee</u> Date <u>6/21/95</u> Time <u>1535</u>								
Charge Code No.					Rec'd Good Condition/Cold																		Signature <u>DAVID NEE</u> Date <u>6/21/95</u> Time <u>600</u>								
Shipping ID. No.					Conforms to Record																		Company <u>GCL</u>								
328365712					Lab No.																		Received By								
Via: <u>FED X</u>					951420																		1. Received By								
Special Instructions/Comments:																							Signature <u>Conygram</u> Date <u>6/21/95</u> Time <u>1100</u>								
																							Signature <u>FRANKY</u> Date <u>6/21/95</u> Time <u>6:30</u>								
																							Signature <u>COLE</u> Date <u>6/21/95</u> Time <u>6:30</u>								

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%.

Linda L. Benkers
QA/QC Coordinator

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		

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



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				

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



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		

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



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				

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



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		

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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				

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



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		

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



CORE LABORATORIES

LABORATORY TESTS RESULTS

07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

LABORATORY I.D.: 951430-0004

DATE SAMPLED: 06/21/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 17:35

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506211735

REMARKS: MW-3s

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
2,4,6-Tribromophenol (Surrogate)	72	0	% Recovery	10-123% Limit		
Time Analyzed	1735	0				
Date Extracted	06/26/95	0				

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



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				

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



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
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		

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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				

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



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		

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



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				

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



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				

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



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				

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



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/13/95

JOB NUMBER: 951430

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.: REXENE COC #9051

LABORATORY I.D.: 951430-0010

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 09:20

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506220920

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				

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



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		

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



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				

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



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				

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



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				

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



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				

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



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				

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



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	

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



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

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



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

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	1147	1	0	0	
	SBD	1229	1	0	0	

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



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

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



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

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	0819	1	0	0	
	SBD	0854	1	0	0	

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



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

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



CORE LABORATORIES

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

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	

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



CORE LABORATORIES

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

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



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

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	MS (1428)	1612	1	0	0	
	MS (1429)	1647	1	0	0	
	MS (1430)	1722	1	0	0	
	MS (1431)	1757	1	0	0	

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



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

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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

Subcontract Laboratory

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

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

RECEIVED JUL 12 1995



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

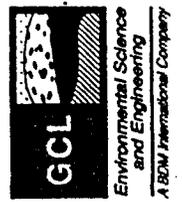
No 9052

Chain of Custody

Date 6/22/95 Page 1 of 1

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

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



Lab Name		Address		Telephone	Analysis Request																			
Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polyuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 62/48240	Base/Neu/Acid Compounds GC/MS 62/58270	Total Organic Carbon (TOC) 415/5060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1 TPH/STX Modified 8015	TCLP - Vol. Semi-Vol. Herbicides, Pesticides	TCLP - Metals	RCRA Metals (9)	Priority Pollutant Metals (13)	CAM Metals (18) Tl/CST/C	Flash Point	Concosity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers
9506220925	H2O	WP-10	3																					3
9506220930	H2O	WP-7	3																					3
9506220940	H2O	WP-26d	3																					3
9506220945	H2O	WP-20	3																					3
9506220950	H2O	WP-28	3																					3
9506221000	H2O	WP-17	3																					3
9506221005	H2O	WP-22	3																					3
9506221015	H2O	WP-24	3																					3
9506221020	H2O	WP-30	3																					3
9506221030	H2O	Field Blank	3																					3

Project Information	Sample Receipt	Relinquished By	Relinquished By	Relinquished By
Project <u>RENEE</u>	Total No. of Containers <u>27</u>	(Signature) <u>D. NEE</u>	(Signature) <u>DAVID NEE</u>	(Signature) <u>DAVID NEE</u>
Project Director <u>TRENT T.</u>	Chain of Custody Seals <u>OK</u>	(Date) <u>1535</u>	(Date) <u>6/22/95</u>	(Date) <u>6/22/95</u>
Charge Code No. <u>3031-006</u>	Rec'd Good Condition/Cold <u>OK</u>	(Printed Name) <u>D. NEE</u>	(Printed Name) <u>DAVID NEE</u>	(Printed Name) <u>DAVID NEE</u>
Shipping ID. No. <u>328365712</u>	Conforms to Record <u>OK</u>	(Company) <u></u>	(Company) <u></u>	(Company) <u></u>
Via: <u>Fed X</u>	Lab No. <u>951429</u>	Received By (Signature) <u>Ameyan</u>	Received By (Signature) <u>Ameyan</u>	Received By (Signature) <u>Ameyan</u>
Special Instructions/Comments:		Received By (Date) <u>6/22/95</u>	Received By (Date) <u>6/22/95</u>	Received By (Date) <u>6/22/95</u>
		(Printed Name) <u>Ameyan</u>	(Printed Name) <u>Ameyan</u>	(Printed Name) <u>Ameyan</u>
		(Company) <u></u>	(Company) <u></u>	(Company) <u></u>



CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

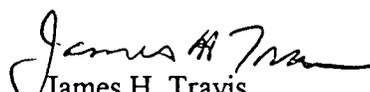
July 11, 1995

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				

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

B



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				

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

b



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.: 951429-0003

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 09:40

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506220940

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				

10703 East Bethany Drive
Aurora, CO 80014
(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.: 951429-0004

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 09:45

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506220945

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				

10703 East Bethany Drive
Aurora, CO 80014
(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
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				

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

B



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.: 951429-0006
DATE SAMPLED: 06/22/95 DATE RECEIVED: 06/23/95
TIME SAMPLED: 10:00 TIME RECEIVED: 11:00
WORK DESCRIPTION: 9506221000 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				

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral property well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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.: 951429-0007

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 10:05

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506221005

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				

10703 East Bethany Drive
Aurora, CO 80014
(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.: 951429-0008

DATE SAMPLED: 06/22/95

DATE RECEIVED: 06/23/95

TIME SAMPLED: 10:15

TIME RECEIVED: 11:00

WORK DESCRIPTION: 9506221015

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				

10703 East Bethany Drive
Aurora, CO 80014
(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.: 951429-0009
 DATE SAMPLED: 06/22/95 DATE RECEIVED: 06/23/95
 TIME SAMPLED: 10:30 TIME RECEIVED: 11:00
 WORK DESCRIPTION: 9506221030 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				

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other minerals, property well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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				

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



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				

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



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/11/95

JOB NUMBER: 951429

CUSTOMER: GEOSCIENCE CONSULTANTS, LTD.

ATTN:

CLIENT I.D.....:

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

DATE SAMPLED.....: / /

DATE RECEIVED.....: / /

TIME SAMPLED.....: :

TIME RECEIVED.....: :

WORK DESCRIPTION....: METHOD BLANK

REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	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				

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



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				

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



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

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	0810	1	0	0	
	SBD	0851	1	0	0	

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



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

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



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

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	1147	1	0	0	
	SBD	1229	1	0	0	

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



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

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



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

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



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

B L A N K S

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Time Analyzed	MS (1428)	1612	1	0	0	
	MS (1429)	1647	1	0	0	
	MS (1430)	1722	1	0	0	
	MS (1431)	1757	1	0	0	

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



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

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



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

Subcontract Laboratory

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

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



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

Signature

11-1-95

Date

Name: Linda L. Benkers

Title: QA/QC Coordinator

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



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

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

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

No 9423

Chain of Custody

Date 9/25/95 Page 1 of 1

Analysis Request

Lab Name CORE LABORATORIES		Address 10703 East Bethany Drive Aurora, CO 80014-2696		Telephone 303/751-1780	
Sample Number	Matrix	Location	SAMPLERS (SIGNATURES)		
9509251205	H ₂ O	MW-16	<i>Billy Dalgado</i>		
9509251240	H ₂ O	MW-11			
9509251310	H ₂ O	MW-8			
9509251350	H ₂ O	MW-5			
9509251450	A ₂ O	MW-6D			
9509251455	A ₂ O	MW-6D	1 40ML VOA BROKEN ON RECEIPT		
9509251535	H ₂ O	MW-6S			
9509251540	H ₂ O	MW-6S			
9509251550	H ₂ O	Temp Blank			

Project Information	Sample Receipt	Relinquished By	Relinquished By	Relinquished By
Project <u>REXENE</u>	Total No. of Containers <u>31</u>	Signature <u>Billy Dalgado</u>	Signature	Signature
Project Director <u>TRUETT</u>	Chain of Custody Seals <u>Y</u>	(Printed Name) <u>Billy Dalgado</u>	(Printed Name)	(Printed Name)
Charge Code No. <u>3031-006</u>	Rec'd Good Condition/Cold <u>N</u>	(Date) <u>9/25/95</u>	(Date)	(Date)
Shipping ID No. <u>323836550</u>	Conforms to Record	(Company)	(Company)	(Company)
<u>4534385472</u>	Lab No. <u>954344</u>	Received By	Received By	Received By
Via: <u>FED EX</u>		(Signature)	(Signature)	(Signature)
Special Instructions/Comments: <u>NORMAN TAT</u>		(Printed Name)	(Printed Name)	(Printed Name)
		(Company)	(Company)	(Company)

Number of Containers	PHH/PHENOLS	Chemical Oxygen Demand (COD)	Cyanide Total/Amenable	Oil & Grease	Reactivity	Corrosivity	Flash Point	CAM Metals (18) TTT/STLC	Priority Pollutant Metals (13)	PCRA Metals (8)	TCLP - Metals	Herbicides, Pesticides	TCLP - Vol. Semi-Vol. Modified 8015	TPH/BTEX	Hydrocarbons 418.1	Petroleum (TOX) 9020	Total Organic Halides (TOC) 415/9060	Total Organic Carbon G/MS 625/8270	Base/Neu/Acid Compounds G/MS 624/8240	Volatile Compounds Hydrocarbons 610/8310	Polyuclear Aromatic 609/8080	Pesticides/CB 604/8040	Phenols, Sub Phenols 604/8020	Aromatic Volatiles 601/8010	Halogenated
3																									
7	X																								
4	X																								
4	X																								
4	X																								
3	X																								
4	X																								
4	X																								
1																									

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.

Linda L. Benkers
QA/QC Coordinator

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 Project Number.....: 95000161
Customer: Geoscience Consultants, Ltd. Customer Project ID.....: REXENE COC #9423
Job Received Date...: 09/26/95 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

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: 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

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		10/09/95
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
---------	-------------	------------	--------	-----------------	------	------

Method: SW-846 8020

Batch.....: 2687

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank				10/03/95	1026
----	--------------	--	--	--	----------	------

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
----	--------------	----------	--	--	----------	------

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
-----	------------------------	----------	--	--	----------	------

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
----	--------------	--	--	--	----------	------

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: 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
---------	-------------	------------	--------	-----------------	------	------

SB	Spiked Blank	T100695B			10/06/95	1643
----	--------------	----------	--	--	----------	------

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
-----	------------------------	----------	--	--	----------	------

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.....: 2691	Analyst: dmj
Method Description.: Volatile Organics -Aromatics	Units.....: ug/L	

MB	Method Blank				10/09/95	1151
----	--------------	--	--	--	----------	------

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
----	--------------	--	--	--	----------	------

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					

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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
----	--------------	--------	--	--	--	---------------

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
Method Code.....: 8020

Batch.....: 2692
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
Method Code.....: 8270C

Batch.....: 2781
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%



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



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

10-30-95
Date

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

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



Abuquerque
505 Marquette NW, Ste. 1100
Abuquerque, 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 9424

Chain of Custody

Date 9/26/95 Page 1 of 1

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

Samplers (SIGNATURES)
Sally Sullivan

Sample Number	Matrix	Location
9509260810	H2O	MW-7
9509260830	H2O	MW-7
9509260905	H2O	MW-4
9509260840	H2O	MW-4
9509261010	H2O	MW-15
9509261110	H2O	MW-17
9509261155	H2O	MW-14
9509261235	H2O	MW-9S
9509261245	A2O	MW-9S
9509261340	H2O	MW-30

Analysis Request

Analysis Request	Number of Containers
Halogenated Volatiles 601/8010	4
Aromatic Volatiles 602/8020	4
Phenols, Sub Phenols 604/8040	4
Pesticides/PCB 608/8080	4
Polynuclear Aromatic Hydrocarbons 610/8310	4
Volatile Compounds GC/MS 624/8240	4
Base/New/Acid Compounds GC/MS 625/8270	4
Total Organic Carbon (TOC) 415/9060	4
Total Organic Halides (TOX) 9020	4
Petroleum Hydrocarbons 418.1 TPH/BTEX Modified 8015	4
TCLP - Vol., Semi-Vol. Herbicides, Pesticides	4
TCLP - Metals	4
RCRA Metals (6)	4
Priority Pollutant Metals (13)	4
CAM Metals (18) TMLC/STLC	4
Flash Point	4
Corrosivity	4
Reactivity	4
Oil & Grease	4
Cyanide Total/Amenable	4
Chemical Oxygen Demand (COD)	4
PAH/Phenols	4
Hg	4

Project Information	Sample Receipt	Relinquished By	Relinquished By	Relinquished By
Project Rexme	Total No. of Containers 36	<i>Billy Kelly</i> (Signature)	<i>Billy Kelly</i> (Signature)	<i>Billy Kelly</i> (Signature)
Project Director Trent T	Chain of Custody Seals OK	(Printed Name)	(Printed Name)	(Printed Name)
Charge Code No. 3031-006	Rec'd Good Condition/Cold OK	(Date)	(Date)	(Date)
Shipping ID. No.	Conforms to Record OK	(Company)	(Company)	(Company)
3238.365561	Lab No. 954368	Received By	Received By	Received By
Via: Fed Ex		<i>Amy Johnston</i> (Signature)	<i>Amy Johnston</i> (Signature)	<i>Amy Johnston</i> (Signature)
Special Instructions/Comments: Normal TAT		(Date)	(Date)	(Date)
		9/26/95	9/26/95	9/26/95

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 Benzene Ethylbenzene Toluene Xylenes (total)		4.9 ND ND ND	0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L	SW-846 8020	10/05/95 10/05/95 10/05/95 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 Benzene Ethylbenzene Toluene Xylenes (total)		ND ND ND ND	0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L	SW-846 8020	10/05/95 10/05/95 10/05/95 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	99.2	09/30/95 1138
								RPD	7.8	
CCV			1013P	0.00241	0.002500			% REC	96.4	09/30/95 1155
CCB				-0.00004						09/30/95 1157
MD	954367-1	D		0.00006		0.00009		ABS Diff.	0.00003	09/30/95 1202
MS	954367-2	D	950929C	0.00506	0.005000	-0.00005		% REC	102.2	09/30/95 1205
CCV			1013P	0.00237	0.002500			% REC	94.8	09/30/95 1215
CCB				0.00002						09/30/95 1217
MB				0.00002						09/30/95 1220
EB				-0.00001						09/30/95 1222
DD	954329-1			0.00053		0.00030		ABS Diff.	0.00023	09/30/95 1225
ED	954329-1			0.00033		0.00030		ABS Diff.	0.00003	09/30/95 1227
SB			950929C	0.00509	0.005000			% REC	101.8	09/30/95 1228
MS	954329-1		950929C	0.00502	0.005000	0.00030		% REC	94.4	09/30/95 1232
CCV			1013P	0.00264	0.002500			% REC	105.6	09/30/95 1233
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
---------	-------------	------------	--------	-----------------	------	------

Method: SW-846 8020

Batch.....: 2704

Analyst: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/05/95	1325
----	--------------	--	--	--	--	----------	------

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
----	--------------	--	----------	--	--	----------	------

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
-----	------------------------	--	----------	--	--	----------	------

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
----	--------------	--	--	--	--	----------	------

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
---------	-------------	------------	--------	-----------------	------	------

SB	Spiked Blank		T1100695B		10/06/95	1643
----	--------------	--	-----------	--	----------	------

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
-----	------------------------	--	-----------	--	----------	------

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
----	--------------	--	--	--	----------	------

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
----	--------------	--	--	--	----------	------

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
---------	-------------	------------	--------	-----------------	------	------

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
----	--------------	--------	--	--	----------	------

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
----	--------------	--------	--	--	----------	------

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
---------	-------------	------------	--------	-----------------	------	------

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

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

Job Number.: 954368	SURROGATE RECOVERIES REPORT	Report Date: 10/30/95
CUSTOMER: Geoscience Consultants, Ltd.	PROJECT: REXENE COC #9424	ATTN: Annette Montoya

Method.....: SW-846 Method Code.....: 8020	Batch.....: 2708 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	19.7	20.0800	98.1		10/10/95	1325
954368-8			19.4	20.0800	96.6		10/10/95	1547

Method.....: SW-846 Method Code.....: 8270C	Batch.....: 2797 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	78.35	100.0100	78		10/04/95	1923
954368-7			86.26	100.0100	86		10/04/95	2025
954368-8			95.03	100.0100	95		10/04/95	2127
954368-10			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
		MB	34.22	50.0100	68		10/04/95	1923
954368-7			36.49	50.0100	73		10/04/95	2025
954368-8			40.46	50.0100	81		10/04/95	2127
954368-10			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
		MB	47.91	100.0000	48		10/04/95	1923
954368-7			50.40	100.0000	50		10/04/95	2025
954368-8			51.84	100.0000	52		10/04/95	2127
954368-10			50.90	100.0000	51		10/04/95	2228

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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



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.



CORE LABORATORIES

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

Linda L. Benkers
Signature

10-30-95
Date

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

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



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

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

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

No 9425

Chain of Custody

Date 9/26/95 Page 1 of 1

Lab Name <u>CORE LABORATORIES</u>		Analysis Request																									
Address <u>10703 East Bethany Drive</u>		Number of Containers	Halogenated	Volatiles 601/8010	Argmatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatle Compounds GC/MS 624/8240	Base/New/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(9)	Priority Pollutant Metals (13)	CAM Metals (18) T1C/STLC	Flash Point	Composity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	Number of Containers	
Sample Number	Matrix	Location																									
9509261415	H2O	MW-3S	X																								
9509261430	H2O	MW-3	X																								
9509261440	A2O	MW-6	X																								
9509261450	H2O	MW-6	X																								
9509261500	H2O	TRIP/BLANK	X																								

Project Information	Sample Receipt	Relinquished By	Relinquished By
Project <u>REXEM</u>	Total No. of Containers <u>14</u>	1. <u>Billy Shallop</u> 10/30	2. <u>Billy Shallop</u> 10/30
Project Director <u>TRENT</u>	Chain of Custody Seals <u>OK</u>	(Signature) (Time) (Date)	(Signature) (Time) (Date)
Charge Code No. <u>3031006</u>	Rec'd Good Condition/Cold <u>OK</u>	(Printed Name) (Printed Name) (Date)	(Printed Name) (Printed Name) (Date)
Shipping ID. No. <u>3238365561</u>	Conforms to Record <u>OK</u>	(Company) (Company)	(Company) (Company)
Via: <u>FDX</u>	Lab No. <u>954369</u>	1. Received By	2. Received By (Laboratory)
Special Instructions/Comments: <u>Abund TAT</u>		(Signature) (Time) (Date)	(Signature) (Time) (Date)
		(Printed Name) (Printed Name) (Date)	(Printed Name) (Printed Name) (Date)
		(Company) (Company)	(Company) (Company)



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 Benzene Ethylbenzene Toluene Xylenes (total)		ND ND ND ND	0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L	SW-846 8020	10/06/95 10/06/95 10/06/95 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 Benzene Ethylbenzene Toluene Xylenes (total)		ND ND ND ND	0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L	SW-846 8020	10/06/95 10/06/95 10/06/95 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
---------	-------------	------------	--------	-----------------	------	------

Method: SW-846 8020

Batch.....: 2591

Analyst ...: dmj

Method Description.: Volatile Organics -Aromatics

Units.....: ug/L

MB	Method Blank					10/06/95	1024
----	--------------	--	--	--	--	----------	------

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
----	--------------	----------	--	--	--	----------	------

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
-----	------------------------	----------	--	--	--	----------	------

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
----	--------------	--------	--	--	--	----------	------

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 Batch.....: 2591
 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
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 Batch.....: 2798
 Method Code.....: 8270C Analyst.....: mlj

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

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.



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.