

AP-19

**ASSESEMENT
REPORT**

Part Three of Four

**YEAR(S):
Jan. 17, 2003**

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242
505-397-4701

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

AP-19?

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-01
Sample ID: SB-19 18.0'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	68.0	10.0
TOTAL, C6-C35	68.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/17/02 16:48	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	85%	80	120
Bromofluorobenzene	93%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-02
Sample ID: SB-19 20.0'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/17/02 17:10	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	82%	80	120
Bromofluorobenzene	85%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-03
Sample ID: SB-20 16'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	726	10.0
DRO, >C12-C35	623	10.0
TOTAL, C6-C35	1349	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/17/02 17:32	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.246	0.025
Ethylbenzene	0.404	0.025
Toluene	0.870	0.025
p/m-Xylene	2.00	0.025
o-Xylene	0.266	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	168%	80	120
Bromofluorobenzene	109%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-04
Sample ID: SB-21 16'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	11.8	10.0
DRO, >C12-C35	17.5	10.0
TOTAL, C6-C35	29.3	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/18/02 15:51	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.026	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.102	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	80%	80	120
Bromofluorobenzene	81%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-05
Sample ID: SB-22 21'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	12.3	10.0
TOTAL, C6-C35	12.3	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/17/02 18:16	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	80%	80	120
Bromofluorobenzene	85%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-06
Sample ID: SB-23 18'

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8015M</u>
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	55.3	10.0
DRO, >C12-C35	61.4	10.0
TOTAL, C6-C35	117	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8021B</u>
0002469-02		7/17/02 18:38	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.032	0.025
Ethylbenzene	0.048	0.025
Toluene	0.090	0.025
p/m-Xylene	0.276	0.025
o-Xylene	0.037	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	94%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203937
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203937-07
Sample ID: SB-24 21'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		7/17/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002469-02		7/17/02 19:01	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	94%	80	120

Approval: Raland K Tuttle 12-11-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203937

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002455-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203937-01	68	952	1040	102.1%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203937-01	68	952	1080	106.3%	3.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002455-05		1000	1090	109.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203937

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002469-02			<0.025		
Ethylbenzene-mg/kg		0002469-02			<0.025		
Toluene-mg/kg		0002469-02			<0.025		
p/m-Xylene-mg/kg		0002469-02			<0.025		
o-Xylene-mg/kg		0002469-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203945-06	0	0.1	0.093	93.%	
Ethylbenzene-mg/kg		0203945-06	0	0.1	0.098	98.%	
Toluene-mg/kg		0203945-06	0	0.1	0.097	97.%	
p/m-Xylene-mg/kg		0203945-06	0	0.2	0.208	104.%	
o-Xylene-mg/kg		0203945-06	0	0.1	0.098	98.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203945-06	0	0.1	0.088	88.%	5.5%
Ethylbenzene-mg/kg		0203945-06	0	0.1	0.096	96.%	2.1%
Toluene-mg/kg		0203945-06	0	0.1	0.094	94.%	3.1%
p/m-Xylene-mg/kg		0203945-06	0	0.2	0.202	101.%	2.9%
o-Xylene-mg/kg		0203945-06	0	0.1	0.096	96.%	2.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002469-05		0.1	0.085	85.%	
Ethylbenzene-mg/kg		0002469-05		0.1	0.088	88.%	
Toluene-mg/kg		0002469-05		0.1	0.087	87.%	
p/m-Xylene-mg/kg		0002469-05		0.2	0.188	94.%	
o-Xylene-mg/kg		0002469-05		0.1	0.088	88.%	

ANALYTICAL REPORT

Prepared for:

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Project: J.B. Cooper

Order#: G0203960

Report Date: 07/23/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242
505-397-4701

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203960-01	SB-25 23'	SOIL	7/16/02 9:27	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-02	SB-26 25'	SOIL	7/16/02 10:59	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-03	SB-27 16.5'	SOIL	7/16/02 13:51	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-04	SB-27 18'	SOIL	7/16/02 14:02	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-05	SB-28 16.5'	SOIL	7/16/02 15:21	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-06	SB-29 18'	SOIL	7/17/02 8:57	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					
	8021B/5030 BTEX					
0203960-07	SB-29 20.5'	SOIL	7/17/02 9:12	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 4 C			
	8015M					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242
505-397-4701

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8021B/5030 BTEX					
0203960-08	SB-30 18'	SOIL	7/17/02 10:16	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-09	SB-31 18'	SOIL	7/17/02 11:40	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-10	SB-31 20'	SOIL	7/17/02 11:49	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-11	SB-32 21'	SOIL	7/17/02 14:27	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-12	SB-33 21'	SOIL	7/17/02 16:12	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-13	SB-34 15'	SOIL	7/18/02 8:02	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 4 C		
0203960-14	SB-34 16'	SOIL	7/18/02 8:08	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242
505-397-4701

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M					
	8021B/5030 BTEX					
0203960-15	MW 50 19'	SOIL	7/18/02 10:09	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4 C		
	8015M					
	8021B/5030 BTEX					
0203960-16	MW 50 26'	SOIL	7/18/02 11:35	7/18/02 15:07	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-01
Sample ID: SB-25 23'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/19/02	7/19/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002468-02		7/19/02	1	25	CK	8021B
		16:13				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-02
Sample ID: SB-26 25'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	19.9	10.0
TOTAL, C6-C35	19.9	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 16

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-02
Sample ID: SB-26 25'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002468-02		7/19/02 16:35	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-03
Sample ID: SB-27 16.5'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	20.1	10.0
DRO, >C12-C35	17.2	10.0
TOTAL, C6-C35	37.3	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-03
Sample ID: SB-27 16.5'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002468-02		7/19/02 16:57	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.072	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-04
Sample ID: SB-27 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/22/02	7/22/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10800	100
DRO, >C12-C35	7740	100
TOTAL, C6-C35	18540	100

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-04
Sample ID: SB-27 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002468-02		7/19/02 17:20	1	500	CK	8021B

Parameter	Result mg/kg	RL
Benzene	2.59	0.500
Ethylbenzene	8.81	0.500
Toluene	7.55	0.500
p/m-Xylene	37.3	0.500
o-Xylene	4.42	0.500

Lab ID: 0203960-05
Sample ID: SB-28 16.5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	211	10.0
DRO, >C12-C35	121	10.0
TOTAL, C6-C35	332	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-05

Sample ID: SB-28 16.5'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002468-02		7/19/02 17:42	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.152	0.025
Toluene	0.136	0.025
p/m-Xylene	0.768	0.025
o-Xylene	0.143	0.025

Lab ID: 0203960-06

Sample ID: SB-29 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	32.3	10.0
TOTAL, C6-C35	32.3	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-06
Sample ID: SB-29 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002468-02		7/22/02 11:12	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-07
Sample ID: SB-29 20.5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-07
Sample ID: SB-29 20.5'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
0002468-02		7/22/02 11:34	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-08
Sample ID: SB-30 18'

8015M

Method	Date	Date	Sample	Dilution		
Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	154	10.0
DRO, >C12-C35	103	10.0
TOTAL, C6-C35	257	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-08
Sample ID: SB-30 18'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002468-02		7/22/02 11:56	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.288	0.025
Ethylbenzene	0.409	0.025
Toluene	0.644	0.025
p/m-Xylene	1.81	0.025
o-Xylene	0.200	0.025

Lab ID: 0203960-09
Sample ID: SB-31 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	41.7	10.0
DRO, >C12-C35	61.5	10.0
TOTAL, C6-C35	103	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
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Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-09
Sample ID: SB-31 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002491-02		7/22/02 21:45	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.025	0.025
Ethylbenzene	0.071	0.025
Toluene	0.051	0.025
p/m-Xylene	0.219	0.025
o-Xylene	0.037	0.025

Lab ID: 0203960-10
Sample ID: SB-31 20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	33.6	10.0
TOTAL, C6-C35	33.6	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: C0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-10
Sample ID: SB-31 20'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002491-02		7/22/02 22:07	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-11
Sample ID: SB-32 21'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	15.5	10.0
TOTAL, C6-C35	15.5	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: C0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-11
Sample ID: SB-32 21'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002491-02		7/22/02 22:29	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-12
Sample ID: SB-33 21'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-12
Sample ID: SB-33 21'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002491-02		7/22/02 22:51	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-13
Sample ID: SB-34 15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	487	10.0
DRO, >C12-C35	389	10.0
TOTAL, C6-C35	876	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-13
Sample ID: SB-34 15'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002491-02		7/23/02 9:02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.155	0.025
Ethylbenzene	0.356	0.025
Toluene	0.573	0.025
p/m-Xylene	1.70	0.025
o-Xylene	0.190	0.025

Lab ID: 0203960-14
Sample ID: SB-34 16'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	39.7	10.0
DRO, >C12-C35	42.5	10.0
TOTAL, C6-C35	82.2	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-14
Sample ID: SB-34 16'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002491-02		7/23/02 9:24	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.042	0.025
Toluene	0.039	0.025
p/m-Xylenc	0.166	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-15
Sample ID: MW 50 19'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	25.1	10.0
DRO, >C12-C35	73.4	10.0
TOTAL, C6-C35	98.5	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
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Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-15
Sample ID: MW 50 19'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002491-02		7/23/02 11:20	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203960-16
Sample ID: MW 50 26'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/22/02	7/22/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88242

Order#: G0203960
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203960-16
Sample ID: MW 50 26'

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002491-02		7/23/02 11:42	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Approval:

Raland K. Tuttle
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

7-23-02

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203960

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002481-02			<10.0		
TOTAL, C6-C35-mg/kg		0002494-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002494-03		952	1020	107.1%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002494-04		952	1080	113.4%	5.7%
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203960-01	0	952	1080	113.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203960-01	0	952	1020	107.1%	5.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002481-05		1000	1110	111.1%	
TOTAL, C6-C35-mg/kg		0002494-05		1000	1240	124.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX
Order#: G0203960

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002468-02			<0.025		
Benzene-mg/kg		0002491-02			<0.025		
Ethylbenzene-mg/kg		0002468-02			<0.025		
Ethylbenzene-mg/kg		0002491-02			<0.025		
Toluene-mg/kg		0002468-02			<0.025		
Toluene-mg/kg		0002491-02			<0.025		
p/m-Xylene-mg/kg		0002468-02			<0.025		
p/m-Xylene-mg/kg		0002491-02			<0.025		
o-Xylene-mg/kg		0002468-02			<0.025		
o-Xylene-mg/kg		0002491-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203951-06	0	0.1	0.090	90.0%	
Benzene-mg/kg		0203965-04	0	0.1	0.099	99.0%	
Ethylbenzene-mg/kg		0203951-06	0	0.1	0.093	93.0%	
Ethylbenzene-mg/kg		0203965-04	0	0.1	0.104	104.0%	
Toluene-mg/kg		0203951-06	0	0.1	0.093	93.0%	
Toluene-mg/kg		0203965-04	0	0.1	0.103	103.0%	
Xylene-mg/kg		0203951-06	0	0.2	0.197	98.5%	
Xylene-mg/kg		0203965-04	0	0.2	0.219	109.5%	
o-Xylene-mg/kg		0203951-06	0	0.1	0.093	93.0%	
o-Xylene-mg/kg		0203965-04	0	0.1	0.104	104.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203951-06	0.09	0.1	0.085	85.0%	5.7%
Benzene-mg/kg		0203965-04	0	0.1	0.100	100.0%	1.0%
Ethylbenzene-mg/kg		0203951-06	0.093	0.1	0.090	90.0%	3.3%
Ethylbenzene-mg/kg		0203965-04	0	0.1	0.104	104.0%	0.0%
Toluene-mg/kg		0203951-06	0.093	0.1	0.090	90.0%	3.3%
Toluene-mg/kg		0203965-04	0	0.1	0.103	103.0%	0.0%
p/m-Xylene-mg/kg		0203951-06	0.197	0.2	0.190	95.0%	3.6%
p/m-Xylene-mg/kg		0203965-04	0	0.2	0.216	108.0%	1.4%
o-Xylene-mg/kg		0203951-06	0.093	0.1	0.089	89.0%	4.4%
o-Xylene-mg/kg		0203965-04	0	0.1	0.103	103.0%	1.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002468-05		0.1	0.085	85.0%	
Benzene-mg/kg		0002491-05		0.1	0.104	104.0%	
Ethylbenzene-mg/kg		0002468-05		0.1	0.088	88.0%	
Ethylbenzene-mg/kg		0002491-05		0.1	0.109	109.0%	
Toluene-mg/kg		0002468-05		0.1	0.087	87.0%	

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT**

SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg		0002491-05		0.1	0.107	107.0%	
p/m-Xylene-mg/kg		0002468-05		0.2	0.188	94.0%	
p/m-Xylene-mg/kg		0002491-05		0.2	0.227	113.5%	
o-Xylene-mg/kg		0002468-05		0.1	0.088	88.0%	
o-Xylene-mg/kg		0002491-05		0.1	0.107	107.0%	

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203988-01	SB-35 18'	SOIL	7/19/02 8:02	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-02	SB-36 19'	SOIL	7/19/02 9:14	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-03	SB-37 19'	SOIL	7/19/02 10:34	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-04	SB-37 22'	SOIL	7/19/02 10:42	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-05	SB-38 19'	SOIL	7/19/02 11:31	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-06	SB-39 17'	SOIL	7/19/02 14:15	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					
	8021B/5030 BTEX					
0203988-07	SB-40 17'	SOIL	7/20/02 7:57	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp: 2 C			
	8015M					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8021B/5030 BTEX					
0203988-08	SB-41 18'	SOIL	7/20/02 8:58	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-09	SB-42 17'	SOIL	7/20/02 9:36	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-10	SB-43 18'	SOIL	7/20/02 10:15	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-11	SB-44 18'	SOIL	7/20/02 11:18	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-12	SB-45 17.5'	SOIL	7/20/02 12:58	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-13	SB-46 18'	SOIL	7/20/02 13:39	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
0203988-14	SB-47 17'	SOIL	7/20/02 14:37	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M 8021B/5030 BTEX					
0203988-15	SB-48 18'	SOIL	7/20/02 15:11	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		
0203988-16	SB-49 18'	SOIL	7/20/02 16:05	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		
0203988-17	SB-50 18.5'	SOIL	7/21/02 12:46	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		
0203988-18	SB-51 26'	SOIL	7/21/02 14:10	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		
0203988-19	SB-52 20'	SOIL	7/21/02 15:18	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		
0203988-20	SB-53 25'	SOIL	7/22/02 16:22	7/23/02 16:44	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.L.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-01
Sample ID: SB-35 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02	1	25	CK	8021B
		0:27				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-02
Sample ID: SB-36 19'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	22.5	10.0
DRO, >C12-C35	60.8	10.0
TOTAL, C6-C35	83.3	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-03
Sample ID: SB-37 19'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02	1	25	CK	8021B
		11:47				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-04
Sample ID: SB-37 22'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-04
Sample ID: SB-37 22'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 12:10	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-05
Sample ID: SB-38 19'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-05
Sample ID: SB-38 19'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 12:32	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-06
Sample ID: SB-39 17'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1520	100
DRO, >C12-C35	1030	100
TOTAL, C6-C35	2550	100

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-06
Sample ID: SB-39 17'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002523-02		7/24/02	1	100	CK	8021B
		2:18				

Parameter	Result mg/kg	RL
Benzene	0.633	0.100
Ethylbenzene	1.05	0.100
Toluene	1.47	0.100
p/m-Xylene	5.29	0.100
o-Xylene	0.726	0.100

Lab ID: 0203988-07
Sample ID: SB-40 17'

8015M

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	137	10.0
DRO, >C12-C35	209	10.0
TOTAL, C6-C35	346	10.0

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-07
Sample ID: SB-40 17'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02 2:40	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.033	0.025
Toluene	0.044	0.025
p/m-Xylene	0.121	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-08
Sample ID: SB-41 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-08
Sample ID: SB-41 18'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02 3:02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-09
Sample ID: SB-42 17'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	238	10.0
DRO, >C12-C35	195	10.0
TOTAL, C6-C35	433	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-09
Sample ID: SB-42 17'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 3:24	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.265	0.025
Ethylbenzene	0.155	0.025
Toluene	0.313	0.025
p/m-Xylene	0.756	0.025
o-Xylene	0.083	0.025

Lab ID: 0203988-10
Sample ID: SB-43 18'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1720	100
DRO, >C12-C35	1370	100
TOTAL, C6-C35	3090	100

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-10
Sample ID: SB-43 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 3:46	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.824	0.100
Ethylbenzene	3.58	0.100
Toluene	1.79	0.100
p/m-Xylene	13.7	0.100
o-Xylene	2.59	0.100

Lab ID: 0203988-11
Sample ID: SB-44 18'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	465	10.0
DRO, >C12-C35	237	10.0
TOTAL, C6-C35	702	10.0

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-11
Sample ID: SB-44 18'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02 4:08	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	1.67	0.025
Ethylbenzene	1.66	0.025
Toluene	2.17	0.025
p/m-Xylene	4.84	0.025
o-Xylene	0.484	0.025

Lab ID: 0203988-12
Sample ID: SB-45 17.5'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-12
Sample ID: SB-45 17.5'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 4:30	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-13
Sample ID: SB-46 18'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-13

Sample ID: SB-46 18'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002523-02		7/24/02 4:52	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-14

Sample ID: SB-47 17'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	220	10.0
DRO, >C12-C35	188	10.0
TOTAL, C6-C35	408	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-14
Sample ID: SB-47 17'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002523-02		7/24/02 5:14	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.162	0.025
Ethylbenzene	0.328	0.025
Toluene	0.446	0.025
p/m-Xylene	1.55	0.025
o-Xylene	0.168	0.025

Lab ID: 0203988-15
Sample ID: SB-48 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-15
Sample ID: SB-48 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 5:37	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-16
Sample ID: SB-49 18'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	537	10.0
DRO, >C12-C35	422	10.0
TOTAL, C6-C35	959	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-16
Sample ID: SB-49 18'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 8:48	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.073	0.025
Ethylbenzene	0.150	0.025
Toluene	0.238	0.025
p/m-Xylene	1.07	0.025
o-Xylene	0.142	0.025

Lab ID: 0203988-17
Sample ID: SB-50 18.5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-17
Sample ID: SB-50 18.5'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002523-02		7/24/02 9:10	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-18
Sample ID: SB-51 26'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	11.2	10.0
TOTAL, C6-C35	11.2	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ANALYTICAL REPORT

KEN DUTTON
E.T.G.L.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-18
Sample ID: SB-51 26'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02 12:54	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-19
Sample ID: SB-52 20'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MEMORANDUM
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-19
Sample ID: SB-52 20'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02	1	25	CK	8021B
		9:56				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-20
Sample ID: SB-53 25'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/23/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-20
Sample ID: SB-53 25'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002523-02		7/24/02 14:47	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203988-21
Sample ID: SB-54 22'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-21
Sample ID: SB-54 22'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-22
Sample ID: SB-55 21'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
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HOBBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-22
Sample ID: SB-55 21'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-23
Sample ID: SB-56 19'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	102	10.0
DRO, >C12-C35	198	10.0
TOTAL, C6-C35	300	10.0

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ANALYTICAL REPORT

KEN DUTTON
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-23
Sample ID: SB-56 19'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-24
Sample ID: SB-56 25'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO. C6-C12	<10.0	10.0
DRO. >C12-C35	<10.0	10.0
TOTAL. C6-C35	<10.0	10.0

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ANALYTICAL REPORT

KEN DUTTON
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-24
Sample ID: SB-56 25'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-25
Sample ID: SB-57 20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-25
Sample ID: SB-57 20'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-26
Sample ID: SB-58 21'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-26
Sample ID: SB-58 21'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-27
Sample ID: SB-59 21'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	< 10.0	10.0
DRO, >C12-C35	10.8	10.0
TOTAL, C6-C35	10.8	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
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HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-27
Sample ID: SB-59 21'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-28
Sample ID: MW 50 25'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-28
Sample ID: MW 50 25'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	<0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-29
Sample ID: MW 51 18'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	21.4	10.0
DRO, >C12-C35	87.8	10.0
TOTAL, C6-C35	109	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-29
Sample ID: MW 51 18'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-30
Sample ID: MW 51 28.5'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	43.7	10.0
DRO, >C12-C35	47.5	10.0
TOTAL, C6-C35	91.2	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-30
Sample ID: MW 51 28.5'

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	0.071	0.0250
Toluene	0.050	0.0250
p/m-Xylene	0.299	0.0250
o-Xylene	0.036	0.0250

Lab ID: 0203988-31
Sample ID: MW 52 21'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	17.0	10.0
DRO, >C12-C35	20.7	10.0
TOTAL, C6-C35	37.7	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-31
Sample ID: MW 52 21'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	< 0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-32
Sample ID: MW 53 20'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ANALYTICAL REPORT

KENDUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-32
Sample ID: MW 53 20'

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	<0.025	0.0250
Toluene	< 0.025	0.0250
p/m-Xylene	< 0.025	0.0250
o-Xylene	< 0.025	0.0250

Lab ID: 0203988-33
Sample ID: Unknown Pipeline-SW Corner Pad

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	7/23/02	7/24/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0203988
Project: EOT 2074C
Project Name: J.B. Cooper
Location: Monument, NM

Lab ID: 0203988-33
Sample ID: Unknown Pipeline-SW Corner Pad

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002528-02		7/24/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.0250
Ethylbenzene	<0.025	0.0250
Toluene	<0.025	0.0250
p/m-Xylene	<0.025	0.0250
o-Xylene	<0.025	0.0250

Approval:

Raland K. Tuttle 7-24-02

Raland K. Tuttle, Lab Director, QA Officer

Date

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203988

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002517-02			<10.0		
TOTAL, C6-C35-mg/kg		0002518-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203988-01	0	909	835	91.9%	
TOTAL, C6-C35-mg/kg		0203988-21	0	909	957	105.3%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203988-01	0	909	847	93.2%	1.4%
TOTAL, C6-C35-mg/kg		0203988-21	0	909	876	96.4%	8.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002517-05		1000	859	85.9%	
TOTAL, C6-C35-mg/kg		0002518-05		1000	833	83.3%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203988

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002523-02			<0.025		
Benzene-mg/kg		0002528-02			<0.025		
Ethylbenzene-mg/kg		0002523-02			<0.025		
Ethylbenzene-mg/kg		0002528-02			<0.025		
Toluene-mg/kg		0002523-02			<0.025		
Toluene-mg/kg		0002528-02			<0.025		
p/m-Xylene-mg/kg		0002523-02			<0.025		
p/m-Xylene-mg/kg		0002528-02			<0.025		
o-Xylene-mg/kg		0002523-02			<0.025		
o-Xylene-mg/kg		0002528-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203988-02	0	0.116	0.096	82.8%	
Benzene-mg/kg		0203988-33	0	0.11	0.088	80.0%	
Ethylbenzene-mg/kg		0203988-02	0	0.116	0.099	85.3%	
Ethylbenzene-mg/kg		0203988-33	0	0.11	0.092	83.6%	
Toluene-mg/kg		0203988-02	0	0.116	0.098	84.5%	
Toluene-mg/kg		0203988-33	0	0.11	0.091	82.7%	
p/m-Xylene-mg/kg		0203988-02	0	0.232	0.208	89.7%	
p/m-Xylene-mg/kg		0203988-33	0	0.22	0.192	87.3%	
o-Xylene-mg/kg		0203988-02	0	0.116	0.098	84.5%	
o-Xylene-mg/kg		0203988-33	0	0.11	0.091	82.7%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203988-02	0.096	0.116	0.096	82.8%	0.0%
Benzene-mg/kg		0203988-33	0	0.11	0.094	85.5%	6.6%
Ethylbenzene-mg/kg		0203988-02	0.099	0.116	0.100	86.2%	1.0%
Ethylbenzene-mg/kg		0203988-33	0	0.11	0.099	90.0%	7.3%
Toluene-mg/kg		0203988-02	0.098	0.116	0.099	85.3%	1.0%
Toluene-mg/kg		0203988-33	0	0.11	0.098	89.1%	7.4%
p/m-Xylene-mg/kg		0203988-02	0.208	0.232	0.210	90.5%	1.0%
p/m-Xylene-mg/kg		0203988-33	0	0.22	0.206	93.6%	7.0%
o-Xylene-mg/kg		0203988-02	0.098	0.116	0.099	85.3%	1.0%
o-Xylene-mg/kg		0203988-33	0	0.11	0.098	89.1%	7.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002523-05		0.1	0.092	92.0%	
Benzene-mg/kg		0002528-05		0.1	0.092	92.0%	
Ethylbenzene-mg/kg		0002523-05		0.1	0.096	96.0%	
Ethylbenzene-mg/kg		0002528-05		0.1	0.096	96.0%	
Toluene-mg/kg		0002523-05		0.1	0.096	96.0%	

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT**

SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	Toluene-mg/kg	0002528-05		0.1	0.096	96.0%	
	p/m-Xylene-mg/kg	0002523-05		0.2	0.202	101.0%	
	p/m-Xylene-mg/kg	0002528-05		0.2	0.202	101.0%	
	o-Xylene-mg/kg	0002523-05		0.1	0.096	96.0%	
	o-Xylene-mg/kg	0002528-05		0.1	0.096	96.0%	

COC: 109 1784

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: J.B. Cooper

Project #: EOT 2474C

Project Location: Monument, NM

PO #:

Fax No: 505.397-4701

Sampler Signature: Robert Edison

	Y	N
Sample Containers Intact?		
Temperature Upon Receipt:		
Laboratory Comments:		200

Temperature Upon Receipt:
Laboratory Comments:

Date	Time
------	------

7-23-42 1644

Received by ELOTT:

Date _____

Time

40E. GLASS

SOIL RESULTS

SB-3570
SB-3570
MU-50(25)
MU-57(28.5)
MU-52(21)
MU-53(20)
P/LF

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Project: J.B. Cooper
Order#: G0203988
Report Date: 07/24/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204085-01	MW-54 (10')	SOIL	7/30/02 8:43	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-02	MW-54 (17')	SOIL	7/30/02 9:16	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-03	MW-55 (5')	SOIL	7/30/02 10:23	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-04	MW-55 (15')	SOIL	7/30/02 10:39	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-05	MW-56 (5')	SOIL	7/30/02 15:32	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-06	MW-56 (19')	SOIL	7/30/02 15:47	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M					
	8021B/5030 BTEX					
0204085-07	MW-57 (5')	SOIL	7/30/02 14:02	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample:	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
	8015M 8021B/5030 BTEX					
0204085-08	MW-57 (17.5')	SOIL	7/30/02 14:17	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					
0204085-09	SB-60 (5')	SOIL	7/30/02 11:34	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					
0204085-10	SB-60 (19.5')	SOIL	7/30/02 11:58	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					
0204085-11	MW-58 (5')	SOIL	7/31/02 8:24	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					
0204085-12	MW-58 (17.5')	SOIL	7/31/02 8:37	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					
0204085-13	MW-59 (5')	SOIL	7/31/02 9:45	8/1/02 12:16	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -1.5 C		
	8015M 8021B/5030 BTEX					

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-01
Sample ID: MW-54 (10')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002666-02		8/1/02 21:34	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-02
Sample ID: MW-54 (17')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	19.6	10.0
DRO, >C12-C35	21.5	10.0
TOTAL, C6-C35	41.1	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-02
Sample ID: MW-54 (17')

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002666-02		8/1/02 21:57	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.054	0.025
Toluene	0.070	0.025
p/m-Xylene	0.231	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-03
Sample ID: MW-55 (5')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-03
Sample ID: MW-55 (5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002666-02		8/1/02 22:19	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-04
Sample ID: MW-55 (15')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	258	10.0
DRO, >C12-C35	192	10.0
TOTAL, C6-C35	450	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-04
Sample ID: MW-55 (15')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002666-02		8/1/02 22:41	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.112	0.025
Ethylbenzene	0.350	0.025
Toluene	0.340	0.025
p/m-Xylene	1.73	0.025
o-Xylene	0.158	0.025

Lab ID: 0204085-05
Sample ID: MW-56 (5')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	12.3	10.0
TOTAL, C6-C35	12.3	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-05
Sample ID: MW-56 (5')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002666-02		8/1/02 23:03	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-06
Sample ID: MW-56 (19')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	10.9	10.0
TOTAL, C6-C35	10.9	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-06
Sample ID: MW-56 (19')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002666-02		8/1/02 23:25	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-07
Sample ID: MW-57 (5')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-07
Sample ID: MW-57 (5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002667-02		8/2/02 23:47	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.052	0.025
Ethylbenzene	<0.025	0.025
Toluene	0.066	0.025
p/m-Xylene	0.031	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-08
Sample ID: MW-57 (17.5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-08
Sample ID: MW-57 (17.5')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002667-02		8/2/02 1:37	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-09
Sample ID: SB-60 (5')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-09
Sample ID: SB-60 (5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002667-02		8/2/02 1:59	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-10
Sample ID: SB-60 (19.5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-10
Sample ID: SB-60 (19.5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002667-02		8/2/02 2:21	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-11
Sample ID: MW-58 (5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-11
Sample ID: MW-58 (5')

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002667-02		8/2/02 7:40	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-12
Sample ID: MW-58 (17.5')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-12
Sample ID: MW-58 (17.5')

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002667-02		8/2/02 8:02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-13
Sample ID: MW-59 (5')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-13
Sample ID: MW-59 (5')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002667-02		8/2/02 8:24	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-14
Sample ID: MW-59 (17.5')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	194	10.0
DRO, >C12-C35	190	10.0
TOTAL, C6-C35	384	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-14
Sample ID: MW-59 (17.5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002667-02		8/2/02	1	25	CK	8021B
		8:47				

Parameter	Result mg/kg	RL
Benzene	0.034	0.025
Ethylbenzene	0.162	0.025
Toluene	0.147	0.025
p/m-Xylene	0.837	0.025
o-Xylene	0.126	0.025

Lab ID: 0204085-15
Sample ID: MW-60 (5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-15

Sample ID: MW-60 (5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002667-02		8/2/02 9:09	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-16

Sample ID: MW-60 (18.5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	411	10.0
DRO, >C12-C35	333	10.0
TOTAL, C6-C35	744	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-16
Sample ID: MW-60 (18.5')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0002667-02		8/2/02 9:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.156	0.025
Ethylbenzene	0.608	0.025
Toluene	0.389	0.025
p/m-Xylene	2.53	0.025
o-Xylene	0.416	0.025

Lab ID: 0204085-17
Sample ID: MW-61 (5')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.7	10.0
DRO, >C12-C35	26.5	10.0
TOTAL, C6-C35	37.2	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-17
Sample ID: MW-61 (5')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002667-02		8/2/02 9:53	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0204085-18
Sample ID: MW-61 (18')

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	8/1/02	8/1/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	340	10.0
DRO, >C12-C35	209	10.0
TOTAL, C6-C35	549	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS
ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204085
Project: EO 2074
Project Name: J.B. Cooper Area
Location: Monument, NM

Lab ID: 0204085-18
Sample ID: MW-61 (18')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002667-02		8/2/02 10:15	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.245	0.025
Ethylbenzene	0.591	0.025
Toluene	0.743	0.025
p/m-Xylene	3.08	0.025
o-Xylene	0.439	0.025

Approval: Raland K. Tuttle 8-02-02
Raland K. Tuttle, Lab Director, QA Officer
Celcy D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biczugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204085

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002668-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204085-08	0	909	869	95.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204085-08	0	909	843	92.7%	3.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002668-05		1000	892	89.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204085

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002666-02			<0.025		
Benzene-mg/kg		0002667-02			<0.025		
Ethylbenzene-mg/kg		0002666-02			<0.025		
Ethylbenzene-mg/kg		0002667-02			<0.025		
Toluene-mg/kg		0002666-02			<0.025		
Toluene-mg/kg		0002667-02			<0.025		
p/m-Xylene-mg/kg		0002666-02			<0.025		
p/m-Xylene-mg/kg		0002667-02			<0.025		
o-Xylene-mg/kg		0002666-02			<0.025		
o-Xylene-mg/kg		0002667-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204080-01	0	0.1	0.094	94.4%	
Benzene-mg/kg		0204085-07	0.052	2.5	2.25	87.9%	
Ethylbenzene-mg/kg		0204080-01	0	0.1	0.099	99.4%	
Ethylbenzene-mg/kg		0204085-07	0	2.5	2.35	94.4%	
Toluene-mg/kg		0204080-01	0	0.1	0.098	98.4%	
Toluene-mg/kg		0204085-07	0.066	2.5	2.42	94.2%	
p/m-Xylene-mg/kg		0204080-01	0	0.2	0.208	104.4%	
p/m-Xylene-mg/kg		0204085-07	0.031	5	4.98	99.4%	
o-Xylene-mg/kg		0204080-01	0	0.1	0.097	97.4%	
o-Xylene-mg/kg		0204085-07	0	2.5	2.35	94.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204080-01	0	0.1	0.096	96.4%	2.1%
Benzene-mg/kg		0204085-07	0.052	2.5	2.35	91.9%	4.3%
Ethylbenzene-mg/kg		0204080-01	0	0.1	0.100	100.4%	1.1%
Ethylbenzene-mg/kg		0204085-07	0	2.5	2.4	96.4%	2.1%
Toluene-mg/kg		0204080-01	0	0.1	0.100	100.4%	2.1%
Toluene-mg/kg		0204085-07	0.066	2.5	2.45	95.4%	1.2%
p/m-Xylene-mg/kg		0204080-01	0	0.2	0.212	106.4%	1.9%
p/m-Xylene-mg/kg		0204085-07	0.031	5	5	99.4%	0.4%
o-Xylene-mg/kg		0204080-01	0	0.1	0.100	100.4%	3.1%
o-Xylene-mg/kg		0204085-07	0	2.5	2.4	96.4%	2.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002666-05		0.1	0.090	90.4%	
Benzene-mg/kg		0002667-05		0.1	0.090	90.4%	
Ethylbenzene-mg/kg		0002666-05		0.1	0.094	94.4%	
Ethylbenzene-mg/kg		0002667-05		0.1	0.094	94.4%	
Toluene-mg/kg		0002666-05		0.1	0.094	94.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	Toluene-mg/kg	0002667-05		0.1	0.094	94.4%	
	p/m-Xylene-mg/kg	0002666-05		0.2	0.213	106.5%	
	p/m-Xylene-mg/kg	0002667-05		0.2	0.196	98.4%	
	o-Xylene-mg/kg	0002666-05		0.1	0.094	94.4%	
	m-Xylene-mg/kg	0002667-05		0.1	0.094	94.4%	

Environmental Lab of Texas I, Ltd.

C.O.C. # 114

(1052)

Project Manager:

Ken Dutton

Project Name: J.B. Cooper House

Company Name

ENVIRONMENTAL TECHNOLOGY GROUP, INC. (ETGI)

Project #: 605-2074-C

Company Address:

2540 West Melway

Project Loc: MOOREHEAD, ALA

City/State/Zip:

10085/2109/88242

PO#:

Telephone No:

(505) 397-4882

Fax No: (505) 397-4201

Sampler Signature:

10

[illegible]

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

-15°C

五

Relinquished by 1

Date	Time
------	------

Received by

Date: _____

Time

Frederick Street by

Date _____

Time

Received by ELDT:

Table

Time

Admission

22/12

15

June 11th 1900

0
-
3
7

2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: J. B. Cooper Area

Project #: EO 2434

Project Loc: Monterey, CA

PO #3:

FAX NO: 505-397-4701

2

Sample Containers Intact? ☒ Y ☐ N
Temperature Upon Receipt: -15°C
Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N
Temperature Upon Receipt: -1.5°C
Laboratory Comments:

Time

Time

912

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Project: J.B. Cooper Area

PO#:

Order#: G0204085

Report Date: 08/02/2002

Certificates

US EPA Laboratory Code TX00158

APPENDIX E2
GROUNDWATER ANALYSES

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: May 22, 2001

Order ID Number: A01050123

Project Number: EOTT 2074C
Project Name: Jimmy Cooper
Project Location: Monument, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170303	MW-1	Water	4/30/01	12:05	5/1/01
170304	MW-3	Water	4/30/01	11:35	5/1/01
170305	MW-4	Water	4/30/01	11:00	5/1/01
170306	MW-6	Water	4/30/01	12:35	5/1/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 22 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 170303 - MW-1

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11029 Date Analyzed: 5/8/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09468 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		286	mg/L as CaCo3	1	4
Total Alkalinity		286	mg/L as CaCo3	1	4

Sample: 170303 - MW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.46	mg/L	5	0.10	92	72 - 128
4-BFB		0.42	mg/L	5	0.10	84	72 - 128

Sample: 170303 - MW-1

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC11021 Date Analyzed: 5/7/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09457 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		1140	µMHOS/cm	1	

Sample: 170303 - MW-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC10945 Date Analyzed: 5/3/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09378 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.0003	mg/L	1	0.0002

Sample: 170303 - MW-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC10921 Date Analyzed: 5/1/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09365 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
CL		140	mg/L	5	0.50
Fluoride		1.63	mg/L	5	0.20
Nitrate-N		2.21	mg/L	5	0.20
Sulfate		77.1	mg/L	5	0.50

Sample: 170303 - MW-1

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11126 Date Analyzed: 5/7/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09531 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		20.32	mg/L	1	80	25	35 - 114
2-Fluorobiphenyl		44.52	mg/L	1	80	55	43 - 116
Terphenyl-d14		71.21	mg/L	1	80	89	33 - 141

Sample: 170303 - MW-1

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11006 Date Analyzed: 5/7/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09445 Date Prepared: 5/4/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		668	mg/L	2	10

Sample: 170303 - MW-1

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10973 Date Analyzed: 5/2/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09411 Date Prepared: 5/2/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		24	mg/L	0.10	25	96	70 - 130

Sample: 170303 - MW-1

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170303 - MW-1

Analysis: pH Analytical Method: E 150.1 QC Batch: QC10909 Date Analyzed: 5/1/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09358 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
pH	1	7.5	s.u.	1	1

Sample: 170304 - MW-3

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11029 Date Analyzed: 5/8/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09468 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		382	mg/L as CaCo3	1	4
Total Alkalinity		382	mg/L as CaCo3	1	4

Sample: 170304 - MW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.728	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.0219	mg/L	5	0.001
M,P,O-Xylene		0.0814	mg/L	5	0.001
Total BTEX		0.831	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.43	mg/L	5	0.10	86	72 - 128
4-BFB		0.454	mg/L	5	0.10	90	72 - 128

¹ Sample run: out of holding time

Sample: 170304 - MW-3

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC11021 Date Analyzed: 5/7/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09457 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		1670	μMHOS/cm	1	

Sample: 170304 - MW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC10945 Date Analyzed: 5/3/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09378 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170304 - MW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC10921 Date Analyzed: 5/1/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09365 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
CL		249	mg/L	50	0.50
Fluoride		1.74	mg/L	5	0.20
Nitrate-N		<1.0	mg/L	5	0.20
Sulfate		71.4	mg/L	5	0.50

Sample: 170304 - MW-3

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11126 Date Analyzed: 5/7/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09531 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		28.74	mg/L	1	80	35	35 - 114

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorobiphenyl		40.91	mg/L	1	80	51	43 - 116
Terphenyl-d14		68.27	mg/L	1	80	85	33 - 141

Sample: 170304 - MW-3

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11006 Date Analyzed: 5/7/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09445 Date Prepared: 5/4/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1020	mg/L	2	10

Sample: 170304 - MW-3

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10973 Date Analyzed: 5/2/01
Analyst: BP Preparation Method: 3510C-- Mod. Prep Batch: PB09411 Date Prepared: 5/2/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		23	mg/L	0.10	25	92	70 - 130

Sample: 170304 - MW-3

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		2.32	mg/L	5	0.10

Sample: 170304 - MW-3

Analysis: pH Analytical Method: E 150.1 QC Batch: QC10909 Date Analyzed: 5/1/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09358 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
pH	2	7.2	s.u.	1	1

Sample: 170305 - MW-4

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11029 Date Analyzed: 5/8/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09468 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1

Continued ...

²Sample run out of holding time

... Continued Sample: 170305 Analysis: Alkalinity

Param	Flag	Result	Units	Dilution	RDL
Bicarbonate Alkalinity		262	mg/L as CaCo3	1	4
Total Alkalinity		262	mg/L as CaCo3	1	4

Sample: 170305 - MW-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.037	mg/L	5	0.001
Toluene		0.0051	mg/L	5	0.001
Ethylbenzene		0.0221	mg/L	5	0.001
M,P,O-Xylene		0.374	mg/L	5	0.001
Total BTEX		0.438	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.452	mg/L	5	0.10	90	72 - 128
4-BFB		0.445	mg/L	5	0.10	89	72 - 128

Sample: 170305 - MW-4

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC11021 Date Analyzed: 5/7/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09457 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		1240	µMHOS/cm	1	

Sample: 170305 - MW-4

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC10946 Date Analyzed: 5/3/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09378 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170305 - MW-4

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC10921 Date Analyzed: 5/1/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09365 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
CL		167	mg/L	5	0.50
Fluoride		1.64	mg/L	5	0.20
Nitrate-N		1.34	mg/L	5	0.20
Sulfate		98.5	mg/L	5	0.50

Sample: 170305 - MW-4

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11126 Date Analyzed: 5/7/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09531 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		0.012	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		63.85	mg/L	1	80	79	35 - 114
2-Fluorobiphenyl		65.59	mg/L	1	80	81	43 - 116
Terphenyl-d14		67.28	mg/L	1	80	84	33 - 141

Sample: 170305 - MW-4

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11006 Date Analyzed: 5/7/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09445 Date Prepared: 5/4/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		784	mg/L	2	10

Sample: 170305 - MW-4

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10973 Date Analyzed: 5/2/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09411 Date Prepared: 5/2/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		23	mg/L	0.10	25	92	70 - 130

Sample: 170305 - MW-4

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		1.82	mg/L	5	0.10

Sample: 170305 - MW-4

Analysis: pH Analytical Method: E 150.1 QC Batch: QC10909 Date Analyzed: 5/1/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09358 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
pH	³	7.3	s.u.	1	1

Sample: 170306 - MW-6

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11029 Date Analyzed: 5/8/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09468 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		272	mg/L as CaCo3	1	4
Total Alkalinity		272	mg/L as CaCo3	1	4

Sample: 170306 - MW-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0179	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		0.0179	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	⁴	0.344	mg/L	5	0.10	344	72 - 128
4-BFB	⁵	0.352	mg/L	5	0.10	352	72 - 128

Sample: 170306 - MW-6

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC11021 Date Analyzed: 5/7/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09457 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		1550	µMHOS/cm	1	

³Sample run out of holding time

⁴SURROGATE OUT OF LIMITS DUE TO MATRIX

⁵SURROGATE OUT OF LIMITS DUE TO MATRIX

Sample: 170306 - MW-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC10946 Date Analyzed: 5/3/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09378 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170306 - MW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC10921 Date Analyzed: 5/1/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09365 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
CL		287	mg/L	50	0.50
Fluoride		1.93	mg/L	5	0.20
Nitrate-N		<1.0	mg/L	5	0.20
Sulfate		12.6	mg/L	5	0.50

Sample: 170306 - MW-6

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11126 Date Analyzed: 5/7/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09531 Date Prepared: 5/3/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		56.68	mg/L	1	80	73	35 - 114
2-Fluorobiphenyl		60	mg/L	1	80	75	43 - 116
Terphenyl-d14		54.32	mg/L	1	80	67	33 - 141

Sample: 170306 - MW-6

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11006 Date Analyzed: 5/7/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09445 Date Prepared: 5/4/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		918	mg/L	2	10

Sample: 170306 - MW-6

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10973 Date Analyzed: 5/2/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09411 Date Prepared: 5/2/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		22	mg/L	0.10	25	88	70 - 130

Sample: 170306 - MW-6

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170306 - MW-6

Analysis: pH Analytical Method: E 150.1 QC Batch: QC10909 Date Analyzed: 5/1/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09358 Date Prepared: 5/1/01

Param	Flag	Result	Units	Dilution	RDL
pH	6	7.4	s.u.	1	1

⁶Sample run out of holding time

Quality Control Report Method Blank

Method Blank QCBatch: QC10921

Param	Flag	Results	Units	Reporting Limit
CL		<2.0	mg/L	0.50
Fluoride		<0.2	mg/L	0.20
Nitrate-N		<0.2	mg/L	0.20
Sulfate		<2.0	mg/L	0.50

Method Blank QCBatch: QC10945

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC10946

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC10973

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Method Blank QCBatch: QC11006

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Method Blank QCBatch: QC11021

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		4.12	µMHOS/cm	

Method Blank QCBatch: QC11029

Param	Flag	Results	Units	Reporting Limit
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.0	mg/L as CaCo3	4
Total Alkalinity		<4.0	mg/L as CaCo3	4

Method Blank QCBatch: QC11060

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0935	mg/L	1	0.10	93	72 - 128
4-BFB		0.089	mg/L	1	0.10	89	72 - 128

Method Blank QCBatch: QC11061

Param	Flag	Results	Units	Reporting Limit
GRO		<0.1	mg/L	0.10

Method Blank QCBatch: QC11126

Param	Flag	Results	Units	Reporting Limit
Naphthalene		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
Acenaphthene		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005

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Param	Flag	Results	Units	Reporting Limit
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		16.62	mg/L	1	80	20	35 - 114
2-Fluorobiphenyl		31.1	mg/L	1	80	38	43 - 116
Terphenyl-d14		71.89	mg/L	1	80	89	33 - 141

Quality Control Report Duplicate Samples

Duplicate QCBatch: QC10909

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.3	7.4	s.u.	1	1	0.99

Duplicate QCBatch: QC11006

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		2145	2110	mg/L	1	1	14

Duplicate QCBatch: QC11021

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		6395	6500	µMHOS/cm	1	1	4.6

Duplicate QCBatch: QC11029

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	7
Carbonate Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	7
Bicarbonate Alkalinity		48	46	mg/L as CaCo3	1	4	7
Total Alkalinity		48	46	mg/L as CaCo3	1	4	7

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC10921

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	11.34	11.28	mg/L	1	12.50	<2.0	90	0	90 - 110	20
Fluoride	2.38	2.43	mg/L	1	2.50	<0.2	95	2	90 - 110	20
Nitrate-N	2.36	2.35	mg/L	1	2.50	<0.2	94	0	90 - 110	20
Sulfate	11.69	11.72	mg/L	1	12.50	<2.0	93	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC10945

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.0011	0.00108	mg/L	1	0.001	<0.0002	110	1	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC10946

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.0011	0.00108	mg/L	1	0.001	<0.0002	110	1	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC10973

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	26	26	mg/L	0.10	25	<5	104	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	22	23	mg/L	1	25	88	92	70 - 130

Laboratory Control Spikes QCBatch: QC11060

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0882	0.0869	mg/L	1	0.10	<0.001	88	0	80 - 120	20
Benzene	0.0915	0.0896	mg/L	1	0.10	<0.001	91	0	80 - 120	20
Toluene	0.0915	0.0895	mg/L	1	0.10	<0.001	91	0	80 - 120	20
Ethylbenzene	0.092	0.0892	mg/L	1	0.10	<0.001	92	0	80 - 120	20
M,P,O-Xylene	0.251	0.244	mg/L	1	0.30	<0.001	83	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0942	0.0956	mg/L	1	0.10	94	95	72 - 128
4-BFB	0.0954	0.0974	mg/L	1	0.10	95	97	72 - 128

Laboratory Control Spikes

QCBatch: QC11061

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	1.02	1.005	mg/L	1	1	<0.1	102	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC11126

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Naphthalene	48.77	48.66	mg/L	1	80	<0.005	60	0	21 - 133	20
Acenaphthylene	62.45	63.07	mg/L	1	80	<0.005	78	0	33 - 145	20
Acenaphthene	62.25	63.44	mg/L	1	80	<0.005	77	1	47 - 145	20
Fluorene	67.23	68.88	mg/L	1	80	<0.005	84	2	59 - 121	20
Phenanthrene	63.28	62.98	mg/L	1	80	<0.005	79	0	54 - 120	20
Anthracene	75.99	69.74	mg/L	1	80	<0.005	94	8	27 - 133	20
Fluoranthene	83.41	83.13	mg/L	1	80	<0.005	104	0	26 - 137	20
Pyrene	72.29	70.4	mg/L	1	80	<0.005	90	2	52 - 115	20
Benzo(a)anthracene	58.05	57.02	mg/L	1	80	<0.005	72	1	33 - 143	20
Chrysene	99.16	92.69	mg/L	1	80	<0.005	123	6	17 - 168	20
Benzo(b)fluoranthene	58.45	57.37	mg/L	1	80	<0.005	73	1	33 - 143	20
Benzo(k)fluoranthene	86.07	88.7	mg/L	1	80	<0.005	107	3	17 - 168	20
Benzo(a)pyrene	62.21	61.63	mg/L	1	80	<0.005	77	0	24 - 159	20
Indeno(1,2,3-cd)pyrene	50.7	36.99	mg/L	1	80	<0.005	63	31	0 - 171	20
Dibenzo(a,h)anthracene	62.32	60.62	mg/L	1	80	<0.005	77	2	0 - 227	20
Benzo(g,h,i)perylene	40.74	44.39	mg/L	1	80	<0.005	50	8	0 - 219	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Nitrobenzene-d5	47.07	46.81	mg/L	1	80	58	58	35 - 114
2-Fluorobiphenyl	57.3	56.73	mg/L	1	80	71	70	43 - 116
Terphenyl-d14	41.15	41.09	mg/L	1	80	51	51	33 - 141

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC10921

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	845.86	843.09	mg/L	1	625	287	89	0	52 - 131	20

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Fluoride	⁸ 124.40	⁹ 119.72	mg/L	1	125	1.93	97	3	80 - 113	20
Nitrate-N	¹⁰ 122.47	¹¹ 120.77	mg/L	1	125	<1.0	97	1	86 - 110	20
Sulfate	¹² 599.23	¹³ 596.07	mg/L	1	625	12.6	93	0	71 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC10945

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00089	0.0009	mg/L	1	0.001	<0.0002	89	1	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC10946

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00088	0.0009	mg/L	1	0.001	<0.0002	88	2	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report

Continuing Calibration Verification Standards

ICV (1) QCBatch: QC10909

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.0	100	-0.1 s.u. - +0.1 s.u.	5/1/01

CCV (1) QCBatch: QC10921

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.43	97	90 - 110	5/1/01

Continued ...

⁸I spiked the *50 dilution for 170306, but reported the *5 dilution. The correct %EA = 92.

⁹I spiked the *50 dilution for 170306, but reported the *5 dilution.

¹⁰I spiked the *50 dilution for 170306, but reported the *5 dilution.

¹¹I spiked the *50 dilution for 170306, but reported the *5 dilution.

¹²I spiked the *50 dilution for 170306, but reported the *5 dilution. The correct %EA = 89.

¹³I spiked the *50 dilution for 170306, but reported the *5 dilution.

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.30	90	90 - 110	5/1/01
Fluoride		mg/L	2.50	2.42	96	90 - 110	5/1/01
Nitrate-N		mg/L	2.50	2.35	94	90 - 110	5/1/01
Sulfate		mg/L	12.50	11.63	93	90 - 110	5/1/01

ICV (1) QCBatch: QC10921

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.46	98	90 - 110	5/1/01
CL		mg/L	12.50	11.36	90	90 - 110	5/1/01
Fluoride		mg/L	2.50	2.43	97	90 - 110	5/1/01
Nitrate-N		mg/L	2.50	2.35	94	90 - 110	5/1/01
Sulfate		mg/L	12.50	11.74	93	90 - 110	5/1/01

CCV (1) QCBatch: QC10945

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	5/3/01

ICV (1) QCBatch: QC10945

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	5/3/01

CCV (1) QCBatch: QC10946

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	5/3/01

ICV (1) QCBatch: QC10946

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	5/3/01

CCV (1) QCBatch: QC10973

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	274	109	85 - 115	5/2/01
n-Octane		mg/L	250	234	93	85 - 115	5/2/01

ICV (1) QCBatch: QC10973

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	245	98	85 - 115	5/2/01
n-Octane		mg/L	250	225	90	85 - 115	5/2/01

CCV (1) QCBatch: QC11006

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	939	93	90 - 110	5/7/01

ICV (1) QCBatch: QC11006

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	962	96	90 - 110	5/7/01

CCV (1) QCBatch: QC11021

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μ MHOS/cm	1413	1412	99	90 - 110	5/7/01

ICV (1) QCBatch: QC11021

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1413	1424	100	90 - 110	5/7/01

CCV (1) QCBatch: QC11029

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	5/8/01
Carbonate Alkalinity		mg/L as CaCo3	0	232	0	90 - 110	5/8/01
Bicarbonate Alkalinity		mg/L as CaCo3	0	16	0	90 - 110	5/8/01
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	5/8/01

ICV (1) QCBatch: QC11029

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	5/8/01
Carbonate Alkalinity		mg/L as CaCo3	0	224	0	90 - 110	5/8/01
Bicarbonate Alkalinity		mg/L as CaCo3	0	24	0	90 - 110	5/8/01
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	5/8/01

CCV (1) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0972	97	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0956	95	85 - 115	5/8/01
Toluene		mg/L	0.10	0.0955	95	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0956	95	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.261	87	85 - 115	5/8/01

CCV (2) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0975	97	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0972	97	85 - 115	5/8/01
Toluene		mg/L	0.10	0.097	97	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0975	97	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.266	88	85 - 115	5/8/01

ICV (1) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.089	89	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0924	92	85 - 115	5/8/01
Toluene		mg/L	0.10	0.0925	92	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0933	93	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.255	85	85 - 115	5/8/01

CCV (1) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.02	102	85 - 115	5/8/01

CCV (2) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.02	102	85 - 115	5/8/01

ICV (1) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.01	101	85 - 115	5/8/01

CCV (1) QCBatch: QC11126

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60	60.85	101	80 - 120	5/7/01
Acenaphthylene		mg/L	60	60.57	100	80 - 120	5/7/01
Acenaphthene		mg/L	60	59.58	99	80 - 120	5/7/01
Fluorene		mg/L	60	60.16	100	80 - 120	5/7/01
Phenanthrene		mg/L	60	57.82	96	80 - 120	5/7/01
Anthracene		mg/L	60	60.9	101	80 - 120	5/7/01
Fluoranthene		mg/L	60	69.82	116	80 - 120	5/7/01
Pyrene		mg/L	60	63.16	105	80 - 120	5/7/01
Benzo(a)anthracene		mg/L	60	54.11	90	0 - 120	5/7/01
Chrysene		mg/L	60	59.25	98	0 - 120	5/7/01
Benzo(b)fluoranthene		mg/L	60	67.59	112	80 - 120	5/7/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(k)fluoranthene		mg/L	60	64.63	107	80 - 120	5/7/01
Benzo(a)pyrene		mg/L	60	61.31	102	80 - 120	5/7/01
Indeno(1,2,3-cd)pyrene		mg/L	60	58.62	97	80 - 120	5/7/01
Dibenzo(a,h)anthracene		mg/L	60	53.79	89	80 - 120	5/7/01
Benzo(g,h,i)perylene		mg/L	60	50.93	84	80 - 120	5/7/01
Nitrobenzene-d5		mg/L	60	62.09	103	80 - 120	5/7/01
2-Fluorobiphenyl		mg/L	60	58.99	98	80 - 120	5/7/01
Terphenyl-d14		mg/L	60	63.2	105	80 - 120	5/7/01

Report Date: May 22, 2001 Order Number: A01050123
 EOTT 2074C Jimmy Cooper

Page Number: 1 of 4
 Monument, NM

Summary Report

Ken Dutton
 ETGI
 2540 W. Marland
 Hobbs, NM

Report Date: May 22, 2001

Order ID Number: A01050123

Project Number: EOTT 2074C
 Project Name: Jimmy Cooper
 Project Location: Monument, NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170303	MW-1	Water	4/30/01	12:05	5/1/01
170304	MW-3	Water	4/30/01	11:35	5/1/01
170305	MW-4	Water	4/30/01	11:00	5/1/01
170306	MW-6	Water	4/30/01	12:35	5/1/01

This report consists of a total of 4 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX					TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	M,P,O-Xylene (mg/L)	Total BTEX (mg/L)	DRO (mg/L)	GRO (mg/L)
170303 - MW-1	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170304 - MW-3	0.728	<0.005	0.0219	0.0814	0.831	<5	2.32
170305 - MW-4	0.037	0.0051	0.0221	0.374	0.438	<5	1.82
170306 - MW-6	0.0179	<0.005	<0.005	<0.005	0.0179	<5	<0.500

Sample: 170303 - MW-1

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		286	mg/L as CaCo3
Total Alkalinity		286	mg/L as CaCo3
Specific Conductance		1140	µMHOS/cm
Total Mercury		0.0003	mg/L
CL		140	mg/L
Fluoride		1.63	mg/L
Nitrate-N		2.21	mg/L
Sulfate		77.1	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L

Continued on next page ...

Report Date: May 22, 2001 Order Number: A01050123

Page Number: 2 of 4

EOTT 2074C

Jimmy Cooper

Monument, NM

Sample 170303 continued ...

Param	Flag	Result	Units
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Total Dissolved Solids		668	mg/L
pH	1	7.5	s.u.

Sample: 170304 - MW-3

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		382	mg/L as CaCo3
Total Alkalinity		382	mg/L as CaCo3
Specific Conductance		1670	µMHOS/cm
Total Mercury		<0.0002	mg/L
CL		249	mg/L
Fluoride		1.74	mg/L
Nitrate-N		<1.0	mg/L
Sulfate		71.4	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Total Dissolved Solids		1020	mg/L
pH	2	7.2	s.u.

Sample: 170305 - MW-4

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3

*Continued on next page ...*¹Sample run out of holding time²Sample run out of holding time

Report Date: May 22, 2001 Order Number: A01050123

EOTT 2074C

Jimmy Cooper

Page Number: 3 of 4

Monument, NM

Sample 170305 continued ...

Param	Flag	Result	Units
Bicarbonate Alkalinity		262	mg/L as CaCo3
Total Alkalinity		262	mg/L as CaCo3
Specific Conductance		1240	μ MHOS/cm
Total Mercury		<0.0002	mg/L
CL		167	mg/L
Fluoride		1.64	mg/L
Nitrate-N		1.34	mg/L
Sulfate		98.5	mg/L
Naphthalene		0.012	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Total Dissolved Solids		784	mg/L
pH	3	7.3	s.u.

Sample: 170306 - MW-6

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		272	mg/L as CaCo3
Total Alkalinity		272	mg/L as CaCo3
Specific Conductance		1550	μ MHOS/cm
Total Mercury		<0.0002	mg/L
CL		287	mg/L
Fluoride		1.93	mg/L
Nitrate-N		<1.0	mg/L
Sulfate		12.6	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L

*Continued on next page ...*³Sample run out of holding time

Report Date: May 22, 2001 Order Number: A01050123

EOTT 2074C

Jimmy Cooper

Page Number: 4 of 4

Monument, NM

Sample 170306 continued ...

Param	Flag	Result	Units
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Total Dissolved Solids		918	mg/L
pH	4	7.4	s.u.

⁴ Sample run out of holding time

- CERTIFICATE OF ANALYSIS -

Client #: 12565

Report Date: 18-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-09896

Your Sample ID: 170303

Date Logged-In: 5/4/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/3/2001

- COLLECTION INFORMATION -

Date/Time/By: 4/30/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/11/01	ROH	25747
AS-MS	200.8/6020	Arsenic, As	14 (3.0)	UG/L	5/9/01	RCM	25714
BA-ICP	200.7/6010B	Barium, Ba	573 (10)	UG/L	5/11/01	ROH	25747
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/9/01	RCM	25714
CR-ICP	200.7/6010B	Chromium, Cr	46 (20)	UG/L	5/11/01	ROH	25747
PB-MS	200.8/6020	Lead, Pb	15 (2.0)	UG/L	5/9/01	RCM	25714
SE-GFAA	3113B/7740	Selenium, Se	ND (15)	UG/L	5/8/01	ROH	25698
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	140 (0.1)	MG/L	5/11/01	ROH	25747
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	22 (0.1)	MG/L	5/11/01	ROH	25747
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	3.5 (2.0)	MG/L	5/11/01	ROH	25747
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	59 (0.4)	MG/L	5/11/01	ROH	25747

Note: The result for the Selenium analytical bench spike was biased low and thus the sample result should be qualified due to a matrix effect. The analytical run was not rejected since the method quality control checks were within limits. The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Lead and Arsenic were outside the recommended limits.

Report Approved By:

End of Report

Deborah K. Johnson

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- CERTIFICATE OF ANALYSIS -

Client #: I2565

Report Date: 16-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-09897

Your Sample ID: 170304

Date Logged-In: 5/4/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/3/2001

- COLLECTION INFORMATION -

Date/Time/By: 4/30/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/11/01	ROH	25747
AS-MS	200.8/6020	Arsenic, As	9.2 (3.0)	UG/L	5/9/01	RCM	25714
BA-ICP	200.7/6010B	Barium, Ba	544 (10)	UG/L	5/11/01	ROH	25747
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/9/01	RCM	25714
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/11/01	ROH	25747
PB-MS	200.8/6020	Lead, Pb	3.9 (2.0)	UG/L	5/9/01	RCM	25714
SE-GFAA	3113B/7740	Selenium, Se	ND (15)	UG/L	5/8/01	ROH	25698
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	150 (0.1)	MG/L	5/11/01	ROH	25747
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	39 (0.1)	MG/L	5/11/01	ROH	25747
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	3.0 (2.0)	MG/L	5/11/01	ROH	25747
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	130 (0.4)	MG/L	5/11/01	ROH	25747

Note: The result for the Selenium analytical bench spike was biased low and thus the sample result should be qualified due to a matrix effect. The analytical run was not rejected since the method quality control checks were within limits. The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Lead and Arsenic were outside the recommended limits.

Report Approved By:

Deborah K. Johnson End of Report
Deborah K. Johnson

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- CERTIFICATE OF ANALYSIS -

Client #: 12565

Report Date: 16-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-09898

Your Sample ID: 170305

Date Logged-In: 5/4/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/3/2001

- COLLECTION INFORMATION -

Date/Time/By: 4/30/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/11/01	ROH	25747
AS-MS	200.8/6020	Arsenic, As	7.8 (3.0)	UG/L	5/9/01	RCM	25714
BA-ICP	200.7/6010B	Barium, Ba	233 (10)	UG/L	5/11/01	ROH	25747
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/9/01	RCM	25714
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/11/01	ROH	25747
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/9/01	RCM	25714
SE-GFAA	3113B/7740	Selenium, Se	ND (15)	UG/L	5/8/01	ROH	25698
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	150 (0.1)	MG/L	5/11/01	ROH	25747
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	25 (0.1)	MG/L	5/11/01	ROH	25747
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	3.4 (2.0)	MG/L	5/11/01	ROH	25747
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	62 (0.4)	MG/L	5/11/01	ROH	25747

Note: The results for the Lead and Arsenic matrix spikes/matrix spike duplicates were biased high, however, the %RPDs were less than 20%. The sample results should be qualified due to matrix effects. The analytical runs were not rejected since the method quality control checks were within limits.

Report Approved By:

Deborah K. Johnson
End of Report
Deborah K. Johnson

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ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: 12565

Report Date: 17-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-09899

Your Sample ID: 170306

Date Logged-In: 5/4/01

Sample Source: NPDES/WWTP's

Matrix: Waste Water

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/3/2001

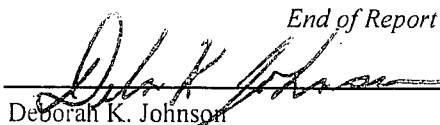
- COLLECTION INFORMATION -

Date/Time/By: 4/30/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/11/01	ROH	25747
AS-MS	200.8/6020	Arsenic, As	18 (3.0)	UG/L	5/9/01	RCM	25714
BA-ICP	200.7/6010B	Barium, Ba	1940 (200)	UG/L	5/11/01	ROH	25747
CR-ICP	200.7/6010B	Chromium, Cr	110 (20)	UG/L	5/11/01	ROH	25747
PB-MS	200.8/6020	Lead, Pb	14 (2.0)	UG/L	5/9/01	RCM	25714
SE-GFAA	3113B/7740	Selenium, Se	ND (30)	UG/L	5/8/01	ROH	25698
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	160 (0.1)	MG/L	5/11/01	ROH	25747
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	29 (0.1)	MG/L	5/11/01	ROH	25747
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	5.6 (2.0)	MG/L	5/11/01	ROH	25747
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	100 (0.4)	MG/L	5/11/01	ROH	25747
CD-GFAA	3113B/7131	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	KRG	25785

Note: The result for the Selenium analytical bench spike was biased low and thus the sample result should be qualified due to a matrix effect. The analytical run was not rejected since the method quality control checks were within limits. The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Lead and Arsenic were outside the recommended limits.

Report Approved By:

End of Report

Deborah K. Johnson

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Report Date: June 25, 2001 Order Number: A01050701
EOTT 2074C Jimmy Cooper

Page Number: 1 of 6
Monument,NM

Summary Report

Britt Byerly
ETGI
2540 W. Marland
Hobbs, NM

Report Date: June 25, 2001

Order ID Number: A01050701

Project Number: EOTT 2074C
Project Name: Jimmy Cooper
Project Location: Monument,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170582	MW-11	Water	5/3/01	16:15	5/5/01
170583	MW-12	Water	5/3/01	15:47	5/5/01
170584	MW-13	Water	5/3/01	15:10	5/5/01
170585	MW-14	Water	5/3/01	14:35	5/5/01
170586	MW-15	Water	5/3/01	14:07	5/5/01
170587	MW-16	Water	5/3/01	13:45	5/5/01
170588	MW-17	Water	5/3/01	14:45	5/5/01

This report consists of a total of 6 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX					TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	M,P,O-Xylene (mg/L)	Total BTEX (mg/L)	DRO (mg/L)	GRO (mg/L)
170582 - MW-11	0.139	<0.005	0.0579	0.258	0.455	<5	3.17
170583 - MW-12	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170584 - MW-13	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170585 - MW-14	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170586 - MW-15	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170587 - MW-16	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500
170588 - MW-17	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.500

Sample: 170582 - MW-11

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		440	mg/L as CaCo3
Total Alkalinity		440	mg/L as CaCo3
Total Mercury		<0.0002	mg/L
CL		294	mg/L
Fluoride		1.67	mg/L
Nitrate-N	1	<1.0	mg/L
Sulfate		<10	mg/L
Naphthalene		0.016	mg/L
Acenaphthylene		<0.005	mg/L

Continued on next page ...

¹Sample came out of hold time for NO3.

Report Date: June 25, 2001 Order Number: A01050701

Page Number: 2 of 6

EOTT 2074C

Jimmy Cooper

Monument, NM

Sample 170582 continued ...

Param	Flag	Result	Units
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		107	mg/L
Dissolved Magnesium		25.9	mg/L
Dissolved Potassium		7.66	mg/L
Dissolved Sodium		127	mg/L
Total Dissolved Solids		950	mg/L

Sample: 170583 - MW-12

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		364	mg/L as CaCo3
Total Alkalinity		364	mg/L as CaCo3
Total Mercury		0.00027	mg/L
CL		124	mg/L
Fluoride		1.61	mg/L
Nitrate-N	2	1.04	mg/L
Sulfate		90.1	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		91.9	mg/L
Dissolved Magnesium		23.9	mg/L

*Continued on next page ...*²Sample came out of hold time for NO3.

Report Date: June 25, 2001 Order Number: A01050701

EOTT 2074C

Jimmy Cooper

Page Number: 3 of 6

Monument, NM

Sample 170583 continued ...

Param	Flag	Result	Units
Dissolved Potassium		6.86	mg/L
Dissolved Sodium		59.5	mg/L
Total Dissolved Solids		745	mg/L

Sample: 170584 - MW-13

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		326	mg/L as CaCo3
Total Alkalinity		326	mg/L as CaCo3
Total Mercury		<0.0002	mg/L
CL		179	mg/L
Fluoride		1.39	mg/L
Nitrate-N	3	<1.0	mg/L
Sulfate		54.4	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		90.2	mg/L
Dissolved Magnesium		22	mg/L
Dissolved Potassium		6.71	mg/L
Dissolved Sodium		73.7	mg/L
Total Dissolved Solids		1030	mg/L

Sample: 170585 - MW-14

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		310	mg/L as CaCo3
Total Alkalinity		310	mg/L as CaCo3
Total Mercury		<0.0002	mg/L
CL		235	mg/L
Fluoride		1.68	mg/L

*Continued on next page ...*³Sample came out of hold time for NO3.

Report Date: June 25, 2001 Order Number: A01050701

Page Number: 4 of 6

EOTT 2074C

Jimmy Cooper

Monument, NM

Sample 170585 continued ...

Param	Flag	Result	Units
Nitrate-N	4	3.37	mg/L
Sulfate		114	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		104	mg/L
Dissolved Magnesium		26.3	mg/L
Dissolved Potassium		8.77	mg/L
Dissolved Sodium		89.4	mg/L
Total Dissolved Solids		802	mg/L

Sample: 170586 - MW-15

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		146	mg/L as CaCo3
Total Alkalinity		146	mg/L as CaCo3
Total Mercury		0.0002	mg/L
CL		564	mg/L
Fluoride		1.92	mg/L
Nitrate-N	5	4.21	mg/L
Sulfate		542	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L

*Continued on next page ...*⁴Sample came out of hold time for NO3.⁵Sample came out of hold time for NO3.

Report Date: June 25, 2001 Order Number: A01050701

Page Number: 5 of 6

EOTT 2074C

Jimmy Cooper

Monument, NM

Sample 170586 continued ...

Param	Flag	Result	Units
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		321	mg/L
Dissolved Magnesium		69.3	mg/L
Dissolved Potassium		12.5	mg/L
Dissolved Sodium		230	mg/L
Total Dissolved Solids		1920	mg/L

Sample: 170587 - MW-16

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		282	mg/L as CaCo3
Total Alkalinity		282	mg/L as CaCo3
Total Mercury		<0.0002	mg/L
CL		205	mg/L
Fluoride		1.59	mg/L
Nitrate-N	6	1.92	mg/L
Sulfate		94.1	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		86.4	mg/L
Dissolved Magnesium		22.9	mg/L
Dissolved Potassium		6.71	mg/L
Dissolved Sodium		80.9	mg/L
Total Dissolved Solids		770	mg/L

Sample: 170588 - MW-17

Param	Flag	Result	Units
Hydroxide Alkalinity		<1.0	mg/L as CaCo3
Carbonate Alkalinity		<1.0	mg/L as CaCo3
Bicarbonate Alkalinity		344	mg/L as CaCo3

*Continued on next page ...*⁶Sample came out of hold time for NO3.

Report Date: June 25, 2001 Order Number: A01050701

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EOTT 2074C

Jimmy Cooper

Monument, NM

Sample 170588 continued ...

Param	Flag	Result	Units
Total Alkalinity		344	mg/L as CaCo3
Total Mercury		0.00036	mg/L
CL		114	mg/L
Fluoride		1.59	mg/L
Nitrate-N	7	1.06	mg/L
Sulfate		122	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L
Dissolved Calcium		89.7	mg/L
Dissolved Magnesium		24.5	mg/L
Dissolved Potassium		8.7	mg/L
Dissolved Sodium		57.4	mg/L
Total Dissolved Solids		807	mg/L

⁷Sample came out of hold time for NO3.

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Analytical and Quality Control Report

Britt Byerly
ETGI
2540 W. Marland
Hobbs, NM

Report Date: June 25, 2001

Order ID Number: A01050701

Project Number: EOTT 2074C
Project Name: Jimmy Cooper
Project Location: Monument, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170582	MW-11	Water	5/3/01	16:15	5/5/01
170583	MW-12	Water	5/3/01	15:47	5/5/01
170584	MW-13	Water	5/3/01	15:10	5/5/01
170585	MW-14	Water	5/3/01	14:35	5/5/01
170586	MW-15	Water	5/3/01	14:07	5/5/01
170587	MW-16	Water	5/3/01	13:45	5/5/01
170588	MW-17	Water	5/3/01	14:45	5/5/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 32 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of Trace Analysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 170582 - MW-11

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		440	mg/L as CaCo3	1	4
Total Alkalinity		440	mg/L as CaCo3	1	4

Sample: 170582 - MW-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.139	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.0579	mg/L	5	0.001
M,P,O-Xylene		0.258	mg/L	5	0.001
Total BTEX		0.455	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.394	mg/L	5	0.10	78	72 - 128
4-BFB		0.427	mg/L	5	0.10	85	72 - 128

Sample: 170582 - MW-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170582 - MW-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11188 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09562 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		294	mg/L	10	0.50
Fluoride		1.67	mg/L	5	0.20
Nitrate-N	¹	<1.0	mg/L	5	0.20
Sulfate		<10	mg/L	5	0.50

¹Sample came out of hold time for NO3.

Sample: 170582 - MW-11

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		0.016	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		55.56	mg/L	1	80	69	35 - 114
2-Fluorobiphenyl		63.08	mg/L	1	80	78	43 - 116
Terphenyl-d14		43.75	mg/L	1	80	54	33 - 141

Sample: 170582 - MW-11

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		107	mg/L	1	0.50
Dissolved Magnesium		25.9	mg/L	1	0.50
Dissolved Potassium		7.66	mg/L	1	0.50
Dissolved Sodium		127	mg/L	1	0.50

Sample: 170582 - MW-11

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		950	mg/L	2	10

Sample: 170582 - MW-11

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170582 - MW-11

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		3.17	mg/L	5	0.10

Sample: 170583 - MW-12

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		364	mg/L as CaCo3	1	4
Total Alkalinity		364	mg/L as CaCo3	1	4

Sample: 170583 - MW-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.458	mg/L	5	0.10	91	72 - 128
4-BFB		0.426	mg/L	5	0.10	85	72 - 128

Sample: 170583 - MW-12

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00027	mg/L	1	0.0002

Sample: 170583 - MW-12

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11187 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09561 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		124	mg/L	5	0.50
Fluoride		1.61	mg/L	5	0.20
Nitrate-N	2	1.04	mg/L	5	0.20
Sulfate		90.1	mg/L	5	0.50

Sample: 170583 - MW-12

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		60.3	mg/L	1	80	75	35 - 114
2-Fluorobiphenyl		59.08	mg/L	1	80	73	43 - 116
Terphenyl-d14		48.48	mg/L	1	80	60	33 - 141

Sample: 170583 - MW-12

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		91.9	mg/L	1	0.50
Dissolved Magnesium		23.9	mg/L	1	0.50
Dissolved Potassium		6.86	mg/L	1	0.50
Dissolved Sodium		59.5	mg/L	1	0.50

Sample: 170583 - MW-12

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

²Sample came out of hold time for NO3.

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		745	mg/L	1	10

Sample: 170583 - MW-12

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170583 - MW-12

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170584 - MW-13

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		326	mg/L as CaCo3	1	4
Total Alkalinity		326	mg/L as CaCo3	1	4

Sample: 170584 - MW-13

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11280 Date Analyzed: 5/16/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09654 Date Prepared: 5/16/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	³	0.451	mg/L	5	0.10	90	72 - 128
4-BFB		0.422	mg/L	5	0.10	84	72 - 128

³SURROGATE OUT OF LIMITS DUE TO MATRIX

Sample: 170584 - MW-13

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170584 - MW-13

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11187 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09561 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		179	mg/L	5	0.50
Fluoride		1.39	mg/L	5	0.20
Nitrate-N	4	<1.0	mg/L	5	0.20
Sulfate		54.4	mg/L	5	0.50

Sample: 170584 - MW-13

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		58.64	mg/L	1	80	73	35 - 114
2-Fluorobiphenyl		61.12	mg/L	1	80	76	43 - 116
Terphenyl-d14		46.27	mg/L	1	80	57	33 - 141

Sample: 170584 - MW-13

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

⁴Sample came out of hold time for NO3.

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		90.2	mg/L	1	0.50
Dissolved Magnesium		22	mg/L	1	0.50
Dissolved Potassium		6.71	mg/L	1	0.50
Dissolved Sodium		73.7	mg/L	1	0.50

Sample: 170584 - MW-13

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1030	mg/L	2	10

Sample: 170584 - MW-13

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170584 - MW-13

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11281 Date Analyzed: 5/16/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09654 Date Prepared: 5/16/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170585 - MW-14

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		310	mg/L as CaCo3	1	4
Total Alkalinity		310	mg/L as CaCo3	1	4

Sample: 170585 - MW-14

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001

Continued ...

... Continued Sample: 170585 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.399	mg/L	5	0.10	79	72 - 128
4-BFB		0.372	mg/L	5	0.10	74	72 - 128

Sample: 170585 - MW-14

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170585 - MW-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11187 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09561 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		235	mg/L	5	0.50
Fluoride		1.68	mg/L	5	0.20
Nitrate-N	5	3.37	mg/L	5	0.20
Sulfate		114	mg/L	5	0.50

Sample: 170585 - MW-14

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

⁵Sample came out of hold time for NO3.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		54.02	mg/L	1	80	67	35 - 114
2-Fluorobiphenyl		57.24	mg/L	1	80	71	43 - 116
Terphenyl-d14		46.56	mg/L	1	80	58	33 - 141

Sample: 170585 - MW-14

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		104	mg/L	1	0.50
Dissolved Magnesium		26.3	mg/L	1	0.50
Dissolved Potassium		8.77	mg/L	1	0.50
Dissolved Sodium		89.4	mg/L	1	0.50

Sample: 170585 - MW-14

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		802	mg/L	2	10

Sample: 170585 - MW-14

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170585 - MW-14

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170586 - MW-15

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		146	mg/L as CaCo3	1	4
Total Alkalinity		146	mg/L as CaCo3	1	4

Sample: 170586 - MW-15

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.459	mg/L	5	0.10	91	72 - 128
4-BFB		0.412	mg/L	5	0.10	82	72 - 128

Sample: 170586 - MW-15

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.0002	mg/L	1	0.0002

Sample: 170586 - MW-15

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11187 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09561 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		564	mg/L	50	0.50
Fluoride		1.92	mg/L	5	0.20
Nitrate-N	6	4.21	mg/L	5	0.20
Sulfate		542	mg/L	50	0.50

Sample: 170586 - MW-15

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005

Continued ...

⁶Sample came out of hold time for NO3.

... Continued Sample: 170586 Analysis: PAH

Param	Flag	Result	Units	Dilution	RDL
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		59.28	mg/L	1	80	74	35 - 114
2-Fluorobiphenyl		60.1	mg/L	1	80	75	43 - 116
Terphenyl-d14		58.3	mg/L	1	80	72	33 - 141

Sample: 170586 - MW-15

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		321	mg/L	1	0.50
Dissolved Magnesium		69.3	mg/L	1	0.50
Dissolved Potassium		12.5	mg/L	1	0.50
Dissolved Sodium		230	mg/L	1	0.50

Sample: 170586 - MW-15

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1920	mg/L	2	10

Sample: 170586 - MW-15

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170586 - MW-15

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170587 - MW-16

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		282	mg/L as CaCo3	1	4
Total Alkalinity		282	mg/L as CaCo3	1	4

Sample: 170587 - MW-16

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.46	mg/L	5	0.10	92	72 - 128
4-BFB		0.414	mg/L	5	0.10	82	72 - 128

Sample: 170587 - MW-16

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 170587 - MW-16

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11187 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09561 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		205	mg/L	5	0.50
Fluoride		1.59	mg/L	5	0.20
Nitrate-N	7	1.92	mg/L	5	0.20
Sulfate		94.1	mg/L	5	0.50

Sample: 170587 - MW-16

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

⁷Sample came out of hold time for NO3.

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		54.36	mg/L	1	80	67	35 - 114
2-Fluorobiphenyl		54.04	mg/L	1	80	67	43 - 116
Terphenyl-d14		41.78	mg/L	1	80	52	33 - 141

Sample: 170587 - MW-16

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		86.4	mg/L	1	0.50
Dissolved Magnesium		22.9	mg/L	1	0.50
Dissolved Potassium		6.71	mg/L	1	0.50
Dissolved Sodium		80.9	mg/L	1	0.50

Sample: 170587 - MW-16

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		770	mg/L	2	10

Sample: 170587 - MW-16

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170587 - MW-16

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 170588 - MW-17

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC11201 Date Analyzed: 5/15/01
Analyst: RS Preparation Method: N/A Prep Batch: PB09594 Date Prepared: 5/15/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		344	mg/L as CaCo3	1	4
Total Alkalinity		344	mg/L as CaCo3	1	4

Sample: 170588 - MW-17

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC11060 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: E 5030B Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.455	mg/L	5	0.10	91	72 - 128
4-BFB		0.415	mg/L	5	0.10	83	72 - 128

Sample: 170588 - MW-17

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11036 Date Analyzed: 5/9/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09473 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00036	mg/L	1	0.0002

Sample: 170588 - MW-17

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC11186 Date Analyzed: 5/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09560 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
CL		114	mg/L	5	0.50
Fluoride		1.59	mg/L	5	0.20

Continued ...

... Continued Sample: 170588 Analysis: Ion Chromatography (IC)

Param	Flag	Result	Units	Dilution	RDL
Nitrate-N	8	1.06	mg/L	5	0.20
Sulfate		122	mg/L	5	0.50

Sample: 170588 - MW-17

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11160 Date Analyzed: 5/14/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09570 Date Prepared: 5/9/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		59.22	mg/L	1	80	74	35 - 114
2-Fluorobiphenyl		61.58	mg/L	1	80	76	43 - 116
Terphenyl-d14		53.74	mg/L	1	80	67	33 - 141

Sample: 170588 - MW-17

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12174 Date Analyzed: 6/22/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10380 Date Prepared: 6/22/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		89.7	mg/L	1	0.50
Dissolved Magnesium		24.5	mg/L	1	0.50
Dissolved Potassium		8.7	mg/L	1	0.50
Dissolved Sodium		57.4	mg/L	1	0.50

Sample: 170588 - MW-17

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC11156 Date Analyzed: 5/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB09554 Date Prepared: 5/10/01

⁸Sample came out of hold time for NO3.

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		807	mg/L	1	10

Sample: 170588 - MW-17

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC10999 Date Analyzed: 5/7/01
Analyst: BP Preparation Method: 3510C - Mod. Prep Batch: PB09435 Date Prepared: 5/7/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Sample: 170588 - MW-17

Analysis: TPH GRO Analytical Method: Mod. 602 QC Batch: QC11061 Date Analyzed: 5/8/01
Analyst: JW Preparation Method: 5030 Prep Batch: PB09491 Date Prepared: 5/8/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Quality Control Report Method Blank

Method Blank QCBatch: QC10999

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Method Blank QCBatch: QC11036

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC11060

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0935	mg/L	1	0.10	93	72 - 128
4-BFB		0.089	mg/L	1	0.10	89	72 - 128

Method Blank QCBatch: QC11061

Param	Flag	Results	Units	Reporting Limit
GRO		<1.3	mg/L	0.10

Method Blank QCBatch: QC11156

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Method Blank QCBatch: QC11160

Param	Flag	Results	Units	Reporting Limit
Naphthalene		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
Acenaphthene		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		58.07	mg/L	1	80	72	35 - 114
2-Fluorobiphenyl		55.12	mg/L	1	80	68	43 - 116
Terphenyl-d14		55.77	mg/L	1	80	69	33 - 141

Method Blank QCBatch: QC11186

Param	Flag	Results	Units	Reporting Limit
CL		<2.0	mg/L	0.50
Fluoride		<0.2	mg/L	0.20
Nitrate-N		<0.2	mg/L	0.20
Sulfate		<2.0	mg/L	0.50

Method Blank QCBatch: QC11187

Param	Flag	Results	Units	Reporting Limit
CL		<2.0	mg/L	0.50
Fluoride		<0.2	mg/L	0.20
Nitrate-N		<0.2	mg/L	0.20
Sulfate		<2.0	mg/L	0.50

Method Blank QCBatch: QC11188

Param	Flag	Results	Units	Reporting Limit
CL		<2.0	mg/L	0.50
Fluoride		<0.2	mg/L	0.20

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Param	Flag	Results	Units	Reporting Limit
Nitrate-N		<0.2	mg/L	0.20
Sulfate		<2.0	mg/L	0.50

Method Blank QCBatch: QC11201

Param	Flag	Results	Units	Reporting Limit
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.0	mg/L as CaCo3	4
Total Alkalinity		<4.0	mg/L as CaCo3	4

Method Blank QCBatch: QC11280

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.101	mg/L	1	0.10	101	72 - 128
4-BFB		0.0872	mg/L	1	0.10	87	72 - 128

Method Blank QCBatch: QC11281

Param	Flag	Results	Units	Reporting Limit
GRO		<1.3	mg/L	0.10

Method Blank QCBatch: QC12174

Param	Flag	Results	Units	Reporting Limit
Dissolved Calcium		<0.5	mg/L	0.50
Dissolved Magnesium		<0.5	mg/L	0.50
Dissolved Potassium		<0.5	mg/L	0.50
Dissolved Sodium		<0.5	mg/L	0.50

Quality Control Report

Duplicate Samples

Duplicate QCBatch: QC11156

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1992	1920	mg/L	1	3	14

Duplicate QCBatch: QC11201

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	7
Carbonate Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	7
Bicarbonate Alkalinity		350	344	mg/L as CaCo3	1	1	7
Total Alkalinity		350	344	mg/L as CaCo3	1	1	7

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC10999

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	23	23	mg/L	0.10	25	<5	92	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	22	22	mg/L	1	25	88	88	70 - 130

Laboratory Control Spikes QCBatch: QC11036

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00102	0.00119	mg/L	1	0.001	<0.0002	102	15	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC11060

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0882	0.0869	mg/L	1	0.10	<0.001	88	0	80 - 120	20

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Benzene	0.0915	0.0896	mg/L	1	0.10	<0.001	91	0	80 - 120	20
Toluene	0.0915	0.0895	mg/L	1	0.10	<0.001	91	0	80 - 120	20
Ethylbenzene	0.092	0.0892	mg/L	1	0.10	<0.001	92	0	80 - 120	20
M,P,O-Xylene	0.251	0.244	mg/L	1	0.30	<0.001	83	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0942	0.0956	mg/L	1	0.10	94	95	72 - 128
4-BFB	0.0954	0.0974	mg/L	1	0.10	95	97	72 - 128

Laboratory Control Spikes

QCBatch: QC11061

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	<1.3	1.31	mg/L	1	1	<1.3	102	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC11160

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Naphthalene	68.39	68.27	mg/L	1	80	<0.005	85	0	21 - 133	20
Acenaphthylene	71.47	72.24	mg/L	1	80	<0.005	89	1	33 - 145	20
Acenaphthene	72.81	72.86	mg/L	1	80	<0.005	91	0	47 - 145	20
Fluorene	75.7	75.54	mg/L	1	80	<0.005	94	0	59 - 121	20
Phenanthrene	65.25	64.31	mg/L	1	80	<0.005	81	1	54 - 120	20
Anthracene	68.3	66.8	mg/L	1	80	<0.005	85	2	27 - 133	20
Fluoranthene	72.45	70.96	mg/L	1	80	<0.005	90	2	26 - 137	20
Pyrene	72.62	72.92	mg/L	1	80	<0.005	90	0	52 - 115	20
Benzo(a)anthracene	69.47	68.39	mg/L	1	80	<0.005	86	1	33 - 143	20
Chrysene	99.75	98.81	mg/L	1	80	<0.005	124	0	17 - 168	20
Benzo(b)fluoranthene	66.77	69.87	mg/L	1	80	<0.005	83	4	33 - 143	20
Benzo(k)fluoranthene	82.48	81.78	mg/L	1	80	<0.005	103	0	17 - 168	20
Benzo(a)pyrene	73.36	72.05	mg/L	1	80	<0.005	91	1	24 - 159	20
Indeno(1,2,3-cd)pyrene	62.94	59.32	mg/L	1	80	<0.005	78	5	0 - 171	20
Dibenzo(a,h)anthracene	93.22	85.84	mg/L	1	80	<0.005	116	8	0 - 227	20
Benzo(g,h,i)perylene	62.38	54.88	mg/L	1	80	<0.005	77	12	0 - 219	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Nitrobenzene-d5	61.27	61.04	mg/L	1	80	76	76	35 - 114
2-Fluorobiphenyl	60.39	62.4	mg/L	1	80	75	78	43 - 116
Terphenyl-d14	59.44	58.96	mg/L	1	80	74	73	33 - 141

Laboratory Control Spikes

QCBatch: QC11186

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	11.97	12.00	mg/L	1	12.50	<2.0	95	0	90 - 110	20
Fluoride	2.46	2.52	mg/L	1	2.50	<0.2	98	2	90 - 110	20
Nitrate-N	2.48	2.50	mg/L	1	2.50	<0.2	99	0	90 - 110	20
Sulfate	12.56	12.59	mg/L	1	12.50	<2.0	100	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC11187

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	12.08	12.09	mg/L	1	12.50	<2.0	96	0	90 - 110	20
Fluoride	2.49	2.51	mg/L	1	2.50	<0.2	99	0	90 - 110	20
Nitrate-N	2.51	2.52	mg/L	1	2.50	<0.2	100	0	90 - 110	20
Sulfate	12.50	12.60	mg/L	1	12.50	<2.0	100	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC11188

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	12.12	12.06	mg/L	1	12.50	<2.0	96	0	90 - 110	20
Fluoride	2.49	2.45	mg/L	1	2.50	<0.2	99	1	90 - 110	20
Nitrate-N	2.54	2.51	mg/L	1	2.50	<0.2	101	1	90 - 110	20
Sulfate	12.69	12.69	mg/L	1	12.50	<2.0	101	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC11280

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0931	0.0996	mg/L	1	0.10	<0.001	93	6	80 - 120	20
Benzene	0.0895	0.1	mg/L	1	0.10	<0.001	89	11	80 - 120	20
Toluene	0.0905	0.101	mg/L	1	0.10	<0.001	90	10	80 - 120	20
Ethylbenzene	0.0913	0.101	mg/L	1	0.10	<0.001	91	10	80 - 120	20
M,P,O-Xylene	0.264	0.292	mg/L	1	0.30	<0.001	88	10	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.102	0.098	mg/L	1	0.10	102	98	72 - 128
4-BFB	0.099	0.0954	mg/L	1	0.10	99	95	72 - 128

Laboratory Control Spikes

QCBatch: QC11281

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
GRO	<1.3	<1.3	mg/L	1	1	<1.3	102	11	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC12174

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	93.5	81.9	mg/L	1	100	<0.5	93	13	75 - 125	20
Dissolved Magnesium	89.6	78.3	mg/L	1	100	<0.5	89	13	75 - 125	20
Dissolved Potassium	100	88.7	mg/L	1	100	<0.5	100	11	75 - 125	20
Dissolved Sodium	99.7	88.6	mg/L	1	100	<0.5	99	11	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC11036

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	⁹ 0.00124	0.00115	mg/L	1	0.001	<0.0002	124	7	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

QCBatch: QC11186

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	¹⁰ 225.89	¹¹ 224.96	mg/L	1	125	114	89	0	52 - 131	20
Fluoride	¹² 27.23	¹³ 26.28	mg/L	1	25	1.59	102	3	80 - 113	20
Nitrate-N	¹⁴ 26.62	¹⁵ 26.30	mg/L	1	25	1.06	102	1	86 - 110	20
Sulfate	¹⁶ 240.30	¹⁷ 237.32	mg/L	1	125	122	94	2	71 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

QCBatch: QC11187

⁹use lcs and lcsd to show run under control. Ssc

¹⁰I spiked the *10 dilution for 170588, but reported the *5 dilution. The correct %EA = 97.

¹¹I spiked the *10 dilution for 170588, but reported the *5 dilution.

¹²I spiked the *10 dilution for 170588, but reported the *5 dilution. The correct %EA = 100.

¹³I spiked the *10 dilution for 170588, but reported the *5 dilution.

¹⁴I spiked the *10 dilution for 170588, but reported the *5 dilution. The correct %EA = 99.

¹⁵I spiked the *10 dilution for 170588, but reported the *5 dilution.

¹⁶I spiked the *10 dilution for 170588, but reported the *5 dilution. The correct %EA = 101.

¹⁷I spiked the *10 dilution for 170588, but reported the *5 dilution.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	1160.54	1166.60	mg/L	1	625	564	95	1	52 - 131	20
Fluoride	¹⁸ 128.53	¹⁹ 125.15	mg/L	1	125	1.92	101	2	80 - 113	20
Nitrate-N	²⁰ 133.84	²¹ 134.10	mg/L	1	125	4.21	103	0	86 - 110	20
Sulfate	1181.77	1174.14	mg/L	1	625	542	102	1	71 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC11188

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
CL	408.29	408.76	mg/L	1	125	294	91	0	52 - 131	20
Fluoride	²² 26.27	²³ 25.90	mg/L	1	25	1.67	98	1	80 - 113	20
Nitrate-N	²⁴ 26.71	²⁵ 26.05	mg/L	1	25	<1.0	106	2	86 - 110	20
Sulfate	²⁶ 134.56	²⁷ 134.59	mg/L	1	125	<10	107	0	71 - 121	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC12174

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	210	215	mg/L	1	100	107	103	4	75 - 125	20
Dissolved Magnesium	105	108	mg/L	1	100	25.9	79	3	75 - 125	20
Dissolved Potassium	98.8	106	mg/L	1	100	7.66	91	7	75 - 125	20
Dissolved Sodium	239	246	mg/L	1	100	127	112	6	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC10999

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	262	104	85 - 115	5/7/01
n-Octane		mg/L	250	268	107	85 - 115	5/7/01

¹⁸I spiked the *50 dilution for 170586, but reported the *5 dilution. The correct %EA = 97.

¹⁹I spiked the *50 dilution for 170586, but reported the *5 dilution.

²⁰I spiked the *50 dilution for 170586, but reported the *5 dilution. The correct %EA = 96.

²¹I spiked the *50 dilution for 170586, but reported the *5 dilution.

²²I spiked the *10 dilution for 170582, but reported the *5 dilution. The correct %EA = 96.

²³I spiked the *10 dilution for 170582, but reported the *5 dilution.

²⁴I spiked the *10 dilution for 170582, but reported the *5 dilution.

²⁵I spiked the *10 dilution for 170582, but reported the *5 dilution.

²⁶I spiked the *10 dilution for 170582, but reported the *5 dilution. The correct %EA = 99.

²⁷I spiked the *10 dilution for 170582, but reported the *5 dilution.

CCV (2) QCBatch: QC10999

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	252	100	85 - 115	5/7/01
n-Octane		mg/L	250	222	88	85 - 115	5/7/01

ICV (1) QCBatch: QC10999

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	251	100	85 - 115	5/7/01
n-Octane		mg/L	250	214	85	85 - 115	5/7/01

CCV (1) QCBatch: QC11036

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00082	82	80 - 120	5/9/01

ICV (1) QCBatch: QC11036

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00109	109	80 - 120	5/9/01

CCV (1) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0972	97	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0956	95	85 - 115	5/8/01
Toluene		mg/L	0.10	0.0955	95	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0956	95	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.261	87	85 - 115	5/8/01

CCV (2) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0975	97	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0972	97	85 - 115	5/8/01
Toluene		mg/L	0.10	0.097	97	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0975	97	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.266	88	85 - 115	5/8/01

ICV (1) QCBatch: QC11060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.089	89	85 - 115	5/8/01
Benzene		mg/L	0.10	0.0924	92	85 - 115	5/8/01
Toluene		mg/L	0.10	0.0925	92	85 - 115	5/8/01
Ethylbenzene		mg/L	0.10	0.0933	93	85 - 115	5/8/01
M,P,O-Xylene		mg/L	0.30	0.255	85	85 - 115	5/8/01

CCV (1) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.02	102	85 - 115	5/8/01

CCV (2) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.02	102	85 - 115	5/8/01

ICV (1) QCBatch: QC11061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.01	101	85 - 115	5/8/01

CCV (1) QCBatch: QC11156

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	975	97	90 - 110	5/11/01

ICV (1) QCBatch: QC11156

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	961	96	90 - 110	5/11/01

CCV (1) QCBatch: QC11160

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60	60.47	100	80 - 120	5/14/01
Acenaphthylene		mg/L	60	59.21	98	80 - 120	5/14/01
Acenaphthene		mg/L	60	57.7	96	80 - 120	5/14/01
Fluorene		mg/L	60	59.07	98	80 - 120	5/14/01
Phenanthrene		mg/L	60	59.07	98	80 - 120	5/14/01
Anthracene		mg/L	60	59.03	98	80 - 120	5/14/01
Fluoranthene		mg/L	60	61.05	101	80 - 120	5/14/01
Pyrene		mg/L	60	63.55	105	80 - 120	5/14/01
Benzo(a)anthracene		mg/L	60	58.75	97	0 - 120	5/14/01
Chrysene		mg/L	60	56.86	94	0 - 120	5/14/01
Benzo(b)fluoranthene		mg/L	60	59.6	99	80 - 120	5/14/01
Benzo(k)fluoranthene		mg/L	60	68.94	114	80 - 120	5/14/01
Benzo(a)pyrene		mg/L	60	58.66	97	80 - 120	5/14/01
Indeno(1,2,3-cd)pyrene		mg/L	60	54.18	90	80 - 120	5/14/01
Dibenzo(a,h)anthracene		mg/L	60	55.17	91	80 - 120	5/14/01
Benzo(g,h,i)perylene		mg/L	60	51.02	85	80 - 120	5/14/01
Nitrobenzene-d5		mg/L	60	63.12	105	80 - 120	5/14/01
2-Fluorobiphenyl		mg/L	60	58.71	97	80 - 120	5/14/01
Terphenyl-d14		mg/L	60	62.22	103	80 - 120	5/14/01

CCV (1) QCBatch: QC11186

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.69	107	90 - 110	5/9/01
CL		mg/L	12.50	11.97	95	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.51	100	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.50	100	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.75	102	90 - 110	5/9/01

ICV (1) QCBatch: QC11186

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.73	109	90 - 110	5/9/01
CL		mg/L	12.50	12.03	96	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.52	100	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.50	100	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.90	103	90 - 110	5/9/01

CCV (1) QCBatch: QC11187

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.73	109	90 - 110	5/9/01
CL		mg/L	12.50	12.03	96	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.52	100	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.50	100	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.90	103	90 - 110	5/9/01

ICV (1) QCBatch: QC11187

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.71	108	90 - 110	5/9/01
CL		mg/L	12.50	12.03	96	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.50	100	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.52	100	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.68	101	90 - 110	5/9/01

CCV (1) QCBatch: QC11188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.71	108	90 - 110	5/9/01
CL		mg/L	12.50	12.03	96	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.50	100	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.52	100	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.68	101	90 - 110	5/9/01

ICV (1) QCBatch: QC11188

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.72	108	90 - 110	5/9/01
CL		mg/L	12.50	12.07	96	90 - 110	5/9/01
Fluoride		mg/L	2.50	2.53	101	90 - 110	5/9/01
Nitrate-N		mg/L	2.50	2.55	102	90 - 110	5/9/01
Sulfate		mg/L	12.50	12.89	103	90 - 110	5/9/01

CCV (1) QCBatch: QC11201

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	5/15/01
Carbonate Alkalinity		mg/L as CaCo3	0	232	0	90 - 110	5/15/01
Bicarbonate Alkalinity		mg/L as CaCo3	0	16	0	90 - 110	5/15/01
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	5/15/01

ICV (1) QCBatch: QC11201

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	90 - 110	5/15/01
Carbonate Alkalinity		mg/L as CaCo3	0	236	0	90 - 110	5/15/01
Bicarbonate Alkalinity		mg/L as CaCo3	0	12	0	90 - 110	5/15/01
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	5/15/01

CCV (1) QCBatch: QC11280

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0987	98	85 - 115	5/16/01
Benzene		mg/L	0.10	0.0988	98	85 - 115	5/16/01
Toluene		mg/L	0.10	0.0996	99	85 - 115	5/16/01
Ethylbenzene		mg/L	0.10	0.1	100	85 - 115	5/16/01
M,P,O-Xylene		mg/L	0.30	0.289	96	85 - 115	5/16/01

CCV (2) QCBatch: QC11280

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.106	106	85 - 115	5/16/01
Benzene		mg/L	0.10	0.103	103	85 - 115	5/16/01
Toluene		mg/L	0.10	0.103	103	85 - 115	5/16/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		mg/L	0.10	0.104	104	85 - 115	5/16/01
M,P,O-Xylene		mg/L	0.30	0.301	100	85 - 115	5/16/01

ICV (1) QCBatch: QC11280

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0999	99	85 - 115	5/16/01
Benzene		mg/L	0.10	0.098	98	85 - 115	5/16/01
Toluene		mg/L	0.10	0.0989	98	85 - 115	5/16/01
Ethylbenzene		mg/L	0.10	0.0989	98	85 - 115	5/16/01
M,P,O-Xylene		mg/L	0.30	0.287	95	85 - 115	5/16/01

CCV (1) QCBatch: QC11281

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.16	116	85 - 115	5/16/01

ICV (1) QCBatch: QC11281

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.04	104	85 - 115	5/16/01

CCV (1) QCBatch: QC12174

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	23.3	93	90 - 110	6/22/01
Dissolved Magnesium		mg/L	25	23.2	92	90 - 110	6/22/01
Dissolved Potassium		mg/L	25	24.7	98	90 - 110	6/22/01
Dissolved Sodium		mg/L	25	25	100	90 - 110	6/22/01

ICV (1) QCBatch: QC12174

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	24.3	97	95 - 105	6/22/01
Dissolved Magnesium		mg/L	25	24	96	95 - 105	6/22/01
Dissolved Potassium		mg/L	25	24.9	99	95 - 105	6/22/01
Dissolved Sodium		mg/L	25	24.9	99	95 - 105	6/22/01

FILE**ATEL**

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: 12565

Report Date: 24-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-10448

Your Sample ID: 170582

Date Logged-In: 5/11/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

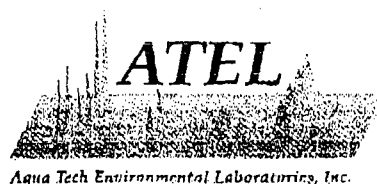
Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	6.2 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	781 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/21/01	KRG	25896
SE-GFAA	3113B/7740	Selenium, Se	ND (3.0)	UG/L	5/14/01	BLD	25792

Report Approved By:

Deborah K. Johnson
Deborah K. Johnson

End of Report

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**- CERTIFICATE OF ANALYSIS -**

Client #: 12565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424

Report Date: 21-May-01

Attn: Nell Green

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Our Lab #: MAR01-10449
Date Logged-In: 5/11/01
Matrix: WasteWater
Project #:

Your Sample ID: 170583
Sample Source: NPDES/WWTP's
Client Project #: PO#:
Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

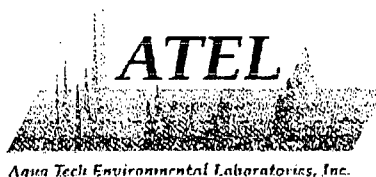
Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	6.3 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	466 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (3.0)	UG/L	5/14/01	BLD	25792

Report Approved By:

Deborah K. Johnson End of Report
Deborah K. Johnson

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**- CERTIFICATE OF ANALYSIS -**

Client #: 12565

Report Date: 21-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-10450

Your Sample ID: 170584

Date Logged-In: 5/11/01

Sample Source: NPDES/WWTP's

Matrix: Waste Water

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	8.2 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	340 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (3.0)	UG/L	5/14/01	BLD	25792

Report Approved By:

End of Report

Deborah K. Johnson

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**- CERTIFICATE OF ANALYSIS -**

Client #: 12565

Report Date: 21-May-01

Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-10451

Your Sample ID: 170585

Date Logged-In: 5/11/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

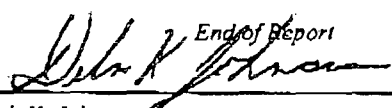
Date Submitted to Lab: 5/9/2001

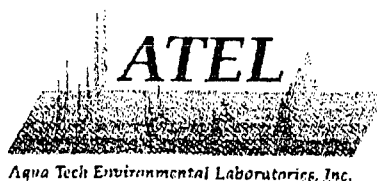
- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	8.3 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	273 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (3.0)	UG/L	5/14/01	BLD	25792

Report Approved By:


Deborah K. Johnson*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory.*

**- CERTIFICATE OF ANALYSIS -**

Client #: 12565

Report Date: 24-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-10452

Your Sample ID: 170586

Date Logged-In: 5/11/01

Sample Source: RCRA

Matrix: Other/ Undefined

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (50)	UG/L	5/16/01	KRG	25808
AS-MS	200.8/6020	Arsenic, As	140 (15)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	10700 (250)	UG/L	5/16/01	KRG	25808
CD-MS	200.8/6020	Cadmium, Cd	3.4 (2.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	1000 (100)	UG/L	5/16/01	KRG	25808
PB-MS	200.8/6020	Lead, Pb	440 (10)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (75)	UG/L	5/14/01	BLD	25792

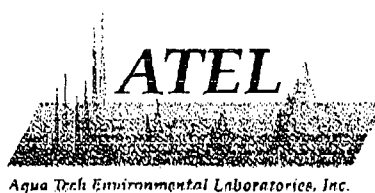
Note: Due to interferences, the Practical Quantitation Limits (PQL) for all metals are elevated.

Report Approved By:

Deborah K. Johnson
Deborah K. Johnson

End of Report

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**- CERTIFICATE OF ANALYSIS -**

Client #: 12565

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Report Date: 24-May-01

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Groen

Our Lab #: MAR01-10453

Your Sample ID: 170587

Date Logged-In: 5/11/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	8.0 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	316 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (15)	UG/L	5/16/01	BLD	25804

Note: Due to interferences, the Practical Quantitation Limits (PQL) for all metals are elevated.

Report Approved By:

Deborah K. Johnson
Deborah K. Johnson

End of Report

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**- CERTIFICATE OF ANALYSIS -**

Client #: 12565

Report Date: 24-May-01

Trace Analysis

6701 Aberdeen Suite 9

Lubbock, TX 79424-

Phone: (806) 794-1296 Ext:

FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-10454

Your Sample ID: 170588

Date Logged-In: 5/11/01

Sample Source: NPDES/WWTP's

Matrix: WasteWater

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 5/3/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	5/15/01	RCM	25764
AS-MS	200.8/6020	Arsenic, As	8.9 (3.0)	UG/L	5/15/01	ROH	25787
BA-ICP	200.7/6010B	Barium, Ba	224 (10)	UG/L	5/15/01	RCM	25764
CD-MS	200.8/6020	Cadmium, Cd	ND (0.5)	UG/L	5/15/01	ROH	25787
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	5/15/01	RCM	25764
PB-MS	200.8/6020	Lead, Pb	ND (2.0)	UG/L	5/15/01	ROH	25787
SE-GFAA	3113B/7740	Selenium, Se	ND (15)	UG/L	5/16/01	BLD	25804

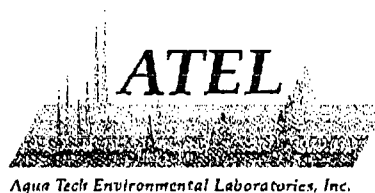
Note: Due to matrix interferences, the Practical Quantitation Limit (PQL) for Selenium is elevated.

Report Approved By:

Deborah K. Johnson
Deborah K. Johnson

End of Report

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- QUALITY CONTROL REPORT -

Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	- QC Calculations -- QC1	- QC Calculations -- QC2	Lower Limit	Upper Limit
25764	LCSA 5.1.2	AG	C	.10405	MG/L	0.1	104 %R:		80	120
25764	LCSA 5.10.2	AG	C	.08774	MG/L	0.1	88 %R:		80	120
25764	LCSA 5.10.2	AL	C	1.98091	MG/L	2	98 %R:		80	120
25764	LCSA 5.10.2	BA	C	1.97125	MG/L	2	99 %R:		80	120
25764	LCSA 5.10.2	BE	C	.09595	MG/L	0.1	96 %R:		80	120
25764	LCSA 5.10.2	CA	C	2.45329	MG/L	2.5	98 %R:		80	120
25764	LCSA 5.10.2	CR	C	.93397	MG/L	1	93 %R:		80	120
25764	LCSA 5.10.2	CU	C	.97689	MG/L	1	98 %R:		80	120
25764	LCSA 5.10.2	FE	C	1.89907	MG/L	2	95 %R:		80	120
25764	LCSA 5.10.2	K	C	9.32055	MG/L	10	93 %R:		80	120
25764	LCSA 5.10.2	MG	C	2.46954	MG/L	2.5	99 %R:		80	120
25764	LCSA 5.10.2	MN	C	.93988	MG/L	1	94 %R:		80	120
25764	LCSA 5.10.2	NA	C	2.74024	MG/L	2.5	110 %R:		80	120
25764	LCSA 5.10.2	NI	C	.94903	MG/L	1	95 %R:		80	120
25764	LCSA 5.10.2	ZN	C	.92513	MG/L	1	93 %R:		80	120
25787	LCSA 5.10.3	AS	C	17.0544	UG/L	20	85 %R:		50	150
25787	LCSA 5.10.3	BE	C	7.9008	UG/L	10	79 %R:		50	150
25787	LCSA 5.10.3	CD	C	8.0071	UG/L	10	80 %R:		50	150
25787	LCSA 5.10.3	CR	C	94.2859	UG/L	100	94 %R:		50	150
25787	LCSA 5.10.3	NI	C	93.277	UG/L	100	93 %R:		50	150
25787	LCSA 5.10.3	PB	C	13.8017	UG/L	10	138 %R:		50	150
25787	LCSA 5.10.3	SB	C	17.5944	UG/L	20	88 %R:		50	150
25787	LCSA 5.10.3	TL	C	8.9702	UG/L	10	90 %R:		50	150
25808	LCSA 5.14.2	AG	C	.104	MG/L	0.1	104 %R:		80	120
25808	LCSA 5.14.2	AL	C	2.15	MG/L	2	108 %R:		80	120
25808	LCSA 5.14.2	BA	C	2	MG/L	2	100 %R:		80	120
25808	LCSA 5.14.2	CA	C	2.57	MG/L	2.5	103 %R:		80	120
25808	LCSA 5.14.2	CD	C	.093	MG/L	0.1	93 %R:		80	120
25808	LCSA 5.14.2	CO	C	.991	MG/L	1	99 %R:		80	120
25808	LCSA 5.14.2	CR	C	.988	MG/L	1	99 %R:		80	120
25808	LCSA 5.14.2	CU	C	.993	MG/L	1	99 %R:		80	120
25808	LCSA 5.14.2	FE	C	2.05	MG/L	2	103 %R:		80	120
25808	LCSA 5.14.2	K	C	9.083	MG/L	10	91 %R:		80	120
25808	LCSA 5.14.2	MG	C	2.62	MG/L	2.5	105 %R:		80	120
25808	LCSA 5.14.2	MN	C	.988	MG/L	1	99 %R:		80	120
25808	LCSA 5.14.2	NA	C	2.7	MG/L	2.5	108 %R:		80	120
25808	LCSA 5.14.2	NI	C	.986	MG/L	1	99 %R:		80	120

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

Page 1 of 9



- QUALITY CONTROL REPORT -

Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25808	LCSA 5.14.2	PB	C	1.19	MG/L	1.1	108 %R:		80	120
25808	LCSA 5.14.2	V	C	1.9	MG/L	2	95 %R:		80	120
25808	LCSA 5.14.2	ZN	C	.876	MG/L	1	98 %R:		80	120
25787	LCSA 5.14.3	AS	C	18.2448	UG/L	20	91 %R:		50	150
25787	LCSA 5.14.3	BE	C	8.1054	UG/L	10	81 %R:		50	150
25787	LCSA 5.14.3	CD	C	8.431	UG/L	10	84 %R:		50	150
25787	LCSA 5.14.3	PB	C	14.1915	UG/L	10	142 %R:		50	150
25787	LCSA 5.14.3	SB	C	17.8093	UG/L	20	89 %R:		50	150
25787	LCSA 5.14.3	TL	C	9.4094	UG/L	10	94 %R:		50	150
25764	LCSA 5.7.2	FE	C	2.02662	MG/L	2	101 %R:		80	120
25764	LCSA 5.7.2	MN	C	1.00778	MG/L	1	101 %R:		80	120
25764	LCSA 5.7.2	NA	C	2.51955	MG/L	2.5	101 %R:		80	120
25764	LCSA-DW 5.11	PB	C	114.103585	MG/KG	131	87 %R:		80	120
25764	LCSA-DW 5.4	PB	C	131.510791	MG/KG	131	100 %R:		80	120
25792	LCSA5.10.3	SE	C	18.08	UG/L	20	90 %R:		70	125
25804	LCSA5.14.3	SE	C	18.99	UG/L	20	95 %R:		70	125
25764	LCSAD 5.1.2	AG	C	.10684	MG/L	0.1	107 %R:		80	120
25764	LCSAD-DW 5.1	PB	C	114.244094	MG/KG	131	87 %R:		80	120
25764	LCSAD-DW 5.4	PB	C	122.139442	MG/KG	131	93 %R:		80	120
25764	LCSS 5.11.4A	AG	C	32.0058027	MG/KG	33.7	95 %R:		70	120
25764	LCSS 5.11.4A	BA	C	267.087040	MG/KG	280	95 %R:		70	120
25764	LCSS 5.11.4A	CD	C	107.740812	MG/KG	123	88 %R:		70	120
25764	LCSS 5.11.4A	CR	C	184.671179	MG/KG	196	94 %R:		70	120
25764	LCSS 5.11.4A	PB	C	107.510638	MG/KG	131	82 %R:		70	120
25764	LCSS 5.13.4A	PB	C	119.482889	MG/KG	131	91 %R:		80	120
25764	LCSS 5.8.4C	AG	C	37.1049504	MG/KG	33.7	110 %R:		70	120
25764	LCSS 5.8.4C	CD	C	130	MG/KG	123	106 %R:		70	120
25764	LCSS 5.8.4C	CR	C	177.592079	MG/KG	196	91 %R:		70	120
25764	LCSS 5.8.4C	CU	C	150.182376	MG/KG	150	100 %R:		70	120
25764	LCSS 5.8.4C	K	C	808.522772	MG/KG	917	88 %R:		70	120
25764	LCSS 5.8.4C	MG	C	1311.52673	MG/KG	1407	93 %R:		70	120
25764	LCSS 5.8.4C	NI	C	137.895049	MG/KG	153	90 %R:		70	120
25764	LCSS 5.8.4C	PB	C	133.489108	MG/KG	131	102 %R:		70	120
25764	LCSS 5.8.4C	ZN	C	230.108910	MG/KG	205	112 %R:		70	120
25787	LCSS OIL 5.1	AS	C	6.22794747	PPM	9.72	64 %R:		50	150
25787	LCSS OIL 5.1	CD	C	2.76647859	PPM	4.86	57 %R:		50	150
25787	LCSS OIL 5.1	CR	C	51.0736172	PPM	47.8	107 %R:		50	150

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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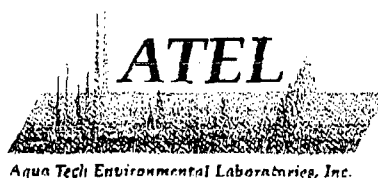
Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25787	LCSS OIL 5.1	PB	C	4.76536842	PPM	4.79	99 %R:		50	150
25804	LCSS5.11.4C	SE	C	62.6877470	MG/KG	86.4	73 %R:		70	125
25764	LCSS5.8.4A	AG	C	28.4331210	MG/KG	33.7	84 %R:		70	120
25764	LCSS5.8.4A	BA	C	241.407643	MG/KG	280	86 %R:		70	120
25784	LCSS5.8.4A	CR	C	144.569002	MG/KG	196	74 %R:		70	120
25764	LCSS5.8.4A	MG	C	1021.88959	MG/KG	1407	73 %R:		70	120
25764	LCSS5.8.4A	PB	C	107.038218	MG/KG	131	82 %R:		70	120
25764	LCSSD 5.13.4	PB	C	150.811320	MG/KG	131	115 %R:		80	120
25808	LFB	AG	C	1.15	MG/L	1	115 %R:		80	120
25808	LFB	AL	C	9.47	MG/L	10	85 %R:		80	120
25808	LFB	BA	C	9.43	MG/L	10	94 %R:		80	120
25808	LFB	CA	C	23.7	MG/L	25	95 %R:		80	120
25808	LFB	CD	C	1.15	MG/L	1	115 %R:		80	120
25808	LFB	CO	C	2.37	MG/L	2.5	95 %R:		80	120
25808	LFB	CR	C	.944	MG/L	1	94 %R:		80	120
25808	LFB	CU	C	1.19	MG/L	1.25	95 %R:		80	120
25808	LFB	FE	C	4.72	MG/L	5	94 %R:		80	120
25808	LFB	K	C	22.81	MG/L	25	90 %R:		80	120
25808	LFB	MG	C	23.6	MG/L	25	94 %R:		80	120
25808	LFB	MN	C	2.37	MG/L	2.5	95 %R:		80	120
25808	LFB	NA	C	23.9	MG/L	25	96 %R:		80	120
25808	LFB	NI	C	2.37	MG/L	2.5	95 %R:		80	120
25808	LFB	PB	C	2.37	MG/L	2.5	95 %R:		80	120
25782	LFB	SE	C	23.06	UG/L	24	96 %R:		70	125
25804	LFB	SE	C	23.15	UG/L	24	96 %R:		70	125
25808	LFB	V	C	2.37	MG/L	2.5	95 %R:		80	120
25808	LFB	ZN	C	2.37	MG/L	2.5	95 %R:		80	120
25808	MAR01-09257MBA		M	2180	UG/L	2000	97 %R:	1 %RPD	80	120
25808	MAR01-09257MCO		M	947	UG/L	1000	95 %R:	0 %RPD	80	120
25808	MAR01-09257MCU		M	968	UG/L	1000	97 %R:	1 %RPD	80	120
25808	MAR01-09257MFE		M	2780	UG/L	2000	95 %R:	1 %RPD	80	120
25808	MAR01-09257MMN		M	985	UG/L	1000	94 %R:	2 %RPD	80	120
25808	MAR01-09257MNI		M	971	UG/L	1000	95 %R:	0 %RPD	80	120
25808	MAR01-09257MV		M	1860	UG/L	2000	93 %R:	1 %RPD	80	120
25808	MAR01-09257MZN		M	940	UG/L	1000	94 %R:	1 %RPD	80	120
25808	MAR01-09257S BA		S	2210	UG/L	2000	99 %R:		80	120
25808	MAR01-09257S CO		S	950	UG/L	1000	95 %R:		80	120

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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- QUALITY CONTROL REPORT -

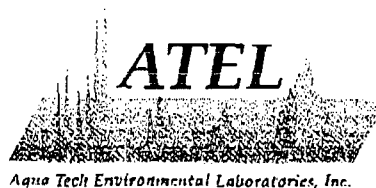
Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25808	MAR01-09257S	CU	S	973	UG/L	1000	97 %R:		80	120
25808	MAR01-09257S	FE	S	2810	UG/L	2000	97 %R:		80	120
25808	MAR01-09257S	MN	S	1000	UG/L	1000	96 %R:		80	120
25808	MAR01-09257S	NI	S	969	UG/L	1000	95 %R:		80	120
25808	MAR01-09257S	V	S	1870	UG/L	2000	94 %R:		80	120
25808	MAR01-09257S	ZN	S	951	UG/L	1000	95 %R:		80	120
25764	MAR01-09395MAG		M	8.40980735	MG/KG	8.8	94 %R:	1 %RPD	80	120
25764	MAR01-09395S	AG	S	8.30995670	MG/KG	8.7	94 %R:		80	120
25764	MAR01-09902D	K	D	20.2061	MG/L		1 %D			20
25764	MAR01-09976MPB		M	131.036398	MG/KG	136	87 %R:	4 %RPD	80	120
25764	MAR01-09976S	PB	S	126.431001	MG/KG	142	80 %R:		80	120
25764	MAR01-09984D	PB	D	11.381	UG/WIPE		19 %D	(<5 x MDL)		20
25764	MAR01-10025D	FE	D	894.37	UG/L		4 %D			20
25764	MAR01-10026MFE		M	1924.4	UG/L	2000	95 %R:	3 %RPD	80	120
25764	MAR01-10026S	FE	S	1870.91	UG/L	2000	92 %R:		80	120
25808	MAR01-10095S	AG	S	5	MG/L	5	100 %R:		50	150
25808	MAR01-10095S	BA	S	102	MG/L	100	101 %R:		50	150
25808	MAR01-10095S	CD	S	1.01	MG/L	1	100 %R:		50	150
25808	MAR01-10095S	CR	S	5.15	MG/L	5	103 %R:		50	150
25808	MAR01-10095S	PB	S	4.535	MG/L	5	90 %R:		50	150
25764	MAR01-10120D	AG	D	11.8330749	MG/KG		8 %D	(<5 x MDL)		20
25764	MAR01-10120D	CD	D	.772609819	MG/KG		33 %D	(<5 x MDL)		20
25764	MAR01-10120D	CR	D	44.2351421	MG/KG		15 %D			20
25764	MAR01-10120D	CU	D	226.919896	MG/KG		8 %D			20
25764	MAR01-10120D	K	D	1857.58397	MG/KG		4 %D	(<5 x MDL)		20
25764	MAR01-10120D	MG	D	11455.5994	MG/KG		8 %D			20
25764	MAR01-10120D	NI	D	53.6149870	MG/KG		1 %D			20
25764	MAR01-10120D	PB	D	30.8527131	MG/KG		4 %D	(<5 x MDL)		20
25764	MAR01-10120D	ZN	D	872.490956	MG/KG		8 %D			20
25764	MAR01-10168D	AG	D	.309062742	MG/KG		64 %D	(<5 x MDL)		20
25764	MAR01-10168D	BA	D	125.865220	MG/KG		15 %D			20
25764	MAR01-10168D	CR	D	31.8032532	MG/KG		5 %D			20
25764	MAR01-10168D	PB	D	1033.49573	MG/KG		22 %D			20
25764	MAR01-10235MAL		M	1985.56	UG/L	2000	98 %R:	1 %RPD	80	120
25787	MAR01-10235MAS		M	18.3703	UG/L	20	77 %R:	6 %RPD	75	125
25787	MAR01-10235MBE		M	8.0955	UG/L	10	80 %R:	3 %RPD	75	125
25787	MAR01-10235MCD		M	7.5322	UG/L	10	75 %R:	7 %RPD	75	125

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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- QUALITY CONTROL REPORT -

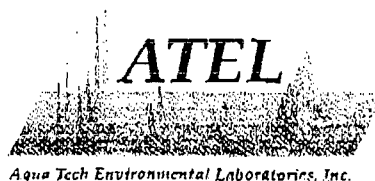
Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25787	MAR01-10235MCR		M	79.4869	UG/L	100	78 %R:	6 %RPD	75	125
25764	MAR01-10235MFE		M	1952.91	UG/L	2000	94 %R:	1 %RPD	80	120
25764	MAR01-10235MMN		M	937.18	UG/L	1000	93 %R:	0 %RPD	80	120
25787	MAR01-10235MNI		M	80.4378	UG/L	100	78 %R:	8 %RPD	75	125
25787	MAR01-10235MSB		M	17.5367	UG/L	20	79 %R:	1 %RPD	75	125
25787	MAR01-10235MTL		M	7.7163	UG/L	10	77 %R:	8 %RPD	75	125
25764	MAR01-10235MZN		M	1485.04	UG/L	1000	94 %R:	2 %RPD	80	120
25764	MAR01-10235S AL		S	1972.45	UG/L	2000	97 %R:		80	120
25787	MAR01-10235S AS		S	17.4693	UG/L	20	83 %R:		75	125
25787	MAR01-10235S BE		S	8.3217	UG/L	10	82 %R:		75	125
25787	MAR01-10235S CD		S	8.1035	UG/L	10	81 %R:		75	125
25787	MAR01-10235S CR		S	84.5083	UG/L	100	83 %R:		75	125
25764	MAR01-10235S FE		S	1941.71	UG/L	2000	94 %R:		80	120
25764	MAR01-10235S MN		S	936.02	UG/L	1000	93 %R:		80	120
25787	MAR01-10235S NI		S	87.0068	UG/L	100	84 %R:		75	125
25787	MAR01-10235S SB		S	17.3935	UG/L	20	79 %R:		75	125
25787	MAR01-10235S TL		S	8.3948	UG/L	10	84 %R:		75	125
25764	MAR01-10235S ZN		S	1481.02	UG/L	1000	92 %R:		80	120
25787	MAR01-10236D AS		D	1.0448	UG/L		34 %D * (<5 x MDL)			20
25787	MAR01-10236D BE		D	.1133	UG/L		98 %D * (<5 x MDL)			20
25787	MAR01-10236D CD		D	.0041	UG/L		130 %D * (<5 x MDL)			20
25787	MAR01-10236D CR		D	.986	UG/L		1 %D (<5 x MDL)			20
25787	MAR01-10236D NI		D	4.9073	UG/L		4 %D (<5 x MDL)			20
25787	MAR01-10236D SB		D	.3207	UG/L		1 %D (<5 x MDL)			20
25787	MAR01-10236D TL		D	0	UG/L		0 %D (<5 x MDL)			20
25764	MAR01-10300D PB		D	316.001075	MG/KG		18 %D			20
25764	MAR01-10301MPB		M	298.967908	MG/KG	155	79 %R: *	1 %RPD	80	120
25764	MAR01-10301S PB		S	302.051391	MG/KG	161	78 %R: *		80	120
25787	MAR01-10327D AS		D	.099790628	PPM		18 %D (<5 x MDL)			20
25787	MAR01-10327D CD		D	.335453838	PPM		1 %D (<5 x MDL)			20
25808	MAR01-10328S AG		S	4.87	MG/L	5	97 %R:		50	150
25808	MAR01-10328S BA		S	100.5	MG/L	100	100 %R:		50	150
25808	MAR01-10328S CD		S	1.005	MG/L	1	98 %R:		50	150
25808	MAR01-10328S CR		S	5.1	MG/L	5	100 %R:		50	150
25808	MAR01-10328S PB		S	4.7	MG/L	5	91 %R:		50	150
25808	MAR01-10383S AG		S	4.88	MG/L	5	97 %R:		50	150
25808	MAR01-10383S BA		S	99	MG/L	100	98 %R:		50	150

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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- QUALITY CONTROL REPORT -

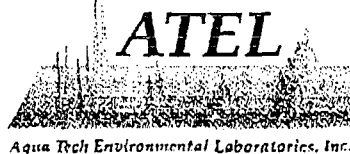
Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25808	MAR01-10383S	CD	S	.98	MG/L	1	98 %R:		50	150
25808	MAR01-10383S	CR	S	5.05	MG/L	5	101 %R:		50	150
25808	MAR01-10383S	PB	S	4.635	MG/L	5	92 %R:		50	150
25782	MAR01-10414S	SE	S	119.75	UG/L	120	100 %R:		40	125
25792	MAR01-10416S	SE	S	105.4	UG/L	120	88 %R:		40	125
25792	MAR01-10450S	SE	S	11.11	UG/L	24	46 %R:		40	125
25804	MAR01-10453S	SE	S	111.55	UG/L	120	91 %R:		40	125
25804	MAR01-10454D	SE	D	0	UG/L	0	%D	(<5 x MDL)		20
25787	MAR01-10476MPB		M	9.7018	UG/L	10	95 %R:	1 %RPD	75	125
25787	MAR01-10476S	PB	S	9.6222	UG/L	10	94 %R:		75	125
25808	MAR01-10489D	AG	D	0	UG/L	200	%D	(<5 x MDL)		20
25808	MAR01-10490MAG		M	1060	UG/L	1000	106 %R:	2 %RPD	80	120
25808	MAR01-10490S	AG	S	1080	UG/L	1000	108 %R:		80	120
25764	MAR01-10492D	FE	D	53.65	UG/L	6	%D	(<5 x MDL)		20
25764	MAR01-10492D	ZN	D	2.44	UG/L	136	%D	(<5 x MDL)		20
25808	MAR01-10615D	CR	D	206.698564	MG/KG	3	%D			20
25808	MAR01-10615D	K	D	1831.57894	MG/KG	4	%D			20
25808	MAR01-10615D	PB	D	50.0478468	MG/KG	3	%D			20
25808	MAR01-10616MCR		M	5247.19101	MG/KG	5618	93 %R:	13 %RPD	80	120
25808	MAR01-10616MK		M	57471.9101	MG/KG	56180	94 %R:	1 %RPD	80	120
25808	MAR01-10616MPB		M	1817.97752	MG/KG	1685	94 %R:	0 %RPD	80	120
25808	MAR01-10616S	CR	S	4615.38461	MG/KG	5495	83 %R:		80	120
25808	MAR01-10616S	K	S	58219.7802	MG/KG	54945	97 %R:		80	120
25808	MAR01-10616S	PB	S	1615.38461	MG/KG	1648	96 %R:		80	120
25787	MAR01-10624D	AS	D	2.3174	UG/L	9	%D	(<5 x MDL)		20
25787	MAR01-10624D	BE	D	0	UG/L	9	%D	(<5 x MDL)		20
25787	MAR01-10624D	CD	D	0	UG/L	9	%D	(<5 x MDL)		20
25787	MAR01-10624D	PB	D	.044	UG/L	16	%D	(<5 x MDL)		20
25787	MAR01-10624D	SB	D	.1326	UG/L	77	%D	(<5 x MDL)		20
25804	MAR01-10624D	SE	D	.79	UG/L	41	%D	(<5 x MDL)		20
25787	MAR01-10624D	TL	D	0	UG/L	9	%D	(<5 x MDL)		20
25804	MAR01-10624S	SE	S	23.08	UG/L	24	91 %R:		40	125
25787	MAR01-10640D	AS	D	.114325674	PPM	33	%D	(<5 x MDL)		20
25787	MAR01-10640D	CD	D	-1.4205794	PPM	117	%D	(<5 x MDL)		20
25787	MAR01-10640D	CR	D	.399830169	PPM	20	%D	(<5 x MDL)		20
25787	MAR01-10640D	PB	D	2.90842157	PPM	0	%D	(<5 x MDL)		20
25764	PBS 5.11.4A	AG	C	-.00038	MG/L					

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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- QUALITY CONTROL REPORT -

Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25764	PBS 5.11.4A	BA	C	.00036	MG/L					
25764	PBS 5.11.4A	CD	C	-.00099	MG/L					
25764	PBS 5.11.4A	CR	C	.003	MG/L					
25764	PBS 5.11.4A	PB	C	-.00893	MG/L					
25787	PBS 5.11.4B	AS	C	.3631	UG/L					
25787	PBS 5.11.4B	CD	C	.0097	UG/L					
25764	PBS 5.13.4A	PB	C	.031	MG/L					
25787	PBS 5.15.4B	AS	C	.3889	UG/L					
25787	PBS 5.15.4B	CD	C	-.0751	UG/L					
25787	PBS 5.15.4B	CR	C	.8039	UG/L					
25787	PBS 5.15.4B	PB	C	-.0432	UG/L					
25764	PBS 5.8.4A	AG	C	-.00071	MG/L					
25764	PBS 5.8.4A	BA	C	.00407	MG/L					
25764	PBS 5.8.4A	CR	C	.0008	MG/L					
25764	PBS 5.8.4A	MG	C	.06462	MG/L					
25764	PBS 5.8.4A	PB	C	.0126	MG/L					
25764	PBS 5.8.4A	ZN	C	.03386	MG/L					
25764	PBS 5.8.4C	AG	C	-.00381	MG/L					
25764	PBS 5.8.4C	CD	C	0	MG/L					
25764	PBS 5.8.4C	CR	C	-.00364	MG/L					
25764	PBS 5.8.4C	CU	C	-.00103	MG/L					
25764	PBS 5.8.4C	K	C	-.00371	MG/L					
25764	PBS 5.8.4C	MG	C	.10363	MG/L					
25764	PBS 5.8.4C	NI	C	.00051	MG/L					
25764	PBS 5.8.4C	PB	C	-.00362	MG/L					
25764	PBS 5.8.4C	ZN	C	.05147	MG/L					
25804	PBS 5.11.4C	SE	C	0	UG/L		0			
25764	PBW 5.1.2	AG	C	.00016	MG/L					
25764	PBW 5.10.2	AG	C	.00158	MG/L					
25764	PBW 5.10.2	AL	C	-.0057	MG/L					
25764	PBW 5.10.2	BA	C	.00036	MG/L					
25764	PBW 5.10.2	BE	C	.00061	MG/L					
25764	PBW 5.10.2	CA	C	.04838	MG/L					
25764	PBW 5.10.2	CR	C	.00108	MG/L					
25764	PBW 5.10.2	CU	C	-.00103	MG/L					
25764	PBW 5.10.2	FE	C	.01575	MG/L					
25764	PBW 5.10.2	K	C	-.09045	MG/L					

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

Page 7 of 9



- QUALITY CONTROL REPORT -

Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25764	PBW 5.10.2	MG	C	.00614	MG/L					
25764	PBW 5.10.2	MN	C	-.00036	MG/L					
25764	PBW 5.10.2	NA	C	.01726	MG/L					
25764	PBW 5.10.2	NI	C	.00215	MG/L					
25764	PBW 5.10.2	ZN	C	.0043	MG/L					
25787	PBW 5.10.3	AS	C	.0075	UG/L					
25787	PBW 5.10.3	BE	C	-.0021	UG/L					
25787	PBW 5.10.3	CD	C	-.0142	UG/L					
25787	PBW 5.10.3	CR	C	.5195	UG/L					
25787	PBW 5.10.3	NI	C	.3125	UG/L					
25787	PBW 5.10.3	PB	C	6.4894	UG/L					
25787	PBW 5.10.3	SB	C	.1621	UG/L					
25787	PBW 5.10.3	TL	C	.0017	UG/L					
25808	PBW 5.14.2	AG	C	0	MG/L					
25808	PBW 5.14.2	AL	C	.038	MG/L					
25808	PBW 5.14.2	BA	C	.003	MG/L					
25808	PBW 5.14.2	CA	C	.032	MG/L					
25808	PBW 5.14.2	CD	C	.003	MG/L					
25808	PBW 5.14.2	CO	C	0	MG/L					
25808	PBW 5.14.2	CR	C	.003	MG/L					
25808	PBW 5.14.2	CU	C	.0002	MG/L					
25808	PBW 5.14.2	FE	C	.01	MG/L					
25808	PBW 5.14.2	K	C	0	MG/L					
25808	PBW 5.14.2	MG	C	.057	MG/L					
25808	PBW 5.14.2	MN	C	0	MG/L					
25808	PBW 5.14.2	NA	C	.129	MG/L					
25808	PBW 5.14.2	NI	C	0	MG/L					
25808	PBW 5.14.2	PB	C	0	MG/L					
25808	PBW 5.14.2	V	C	.001	MG/L					
25808	PBW 5.14.2	ZN	C	.009	MG/L					
25787	PBW 5.14.3	AS	C	.1884	UG/L					
25787	PBW 5.14.3	BE	C	-.0064	UG/L					
25787	PBW 5.14.3	CD	C	-.0102	UG/L					
25787	PBW 5.14.3	PB	C	.3082	UG/L					
25787	PBW 5.14.3	SB	C	.0977	UG/L					
25787	PBW 5.14.3	TL	C	-.0029	UG/L					
25764	PBW 5.7.2	FE	C	.01013	MG/L					

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

Page 8 of 9

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 5/24/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25764	PBW 5.7.2	MN	C	.00187	MG/L					
25764	PBW 5.7.2	NA	C	.05199	MG/L					
25764	PBW-DW 5.11	PB	C	.01913	MG/L					
25764	PBW-DW 5.4	PB	C	-.00108	MG/L					
25792	PBW5.10.3	SE	C	0	UG/L		0			
25804	PBW5.14.3	SE	C	0	UG/L		0			

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

Page 9 of 9

TRACE ANALYSIS, INC

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El Paso, Texas 79922

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806-794-1296

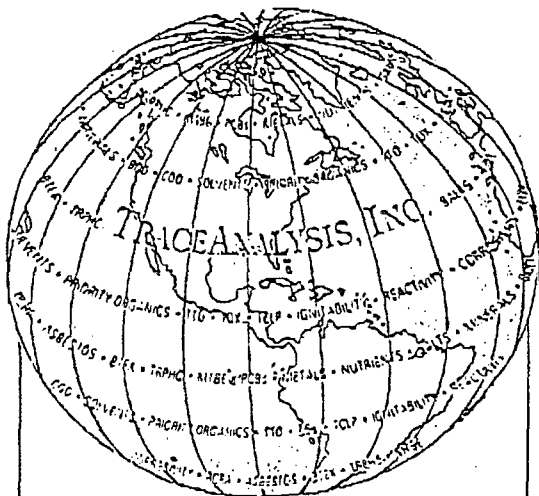
FAX 806•794•1298

888-588-3443

915•585•3443

FAX 915•585•4944

E-Mail: lab@traceanalysis.com



FAX COVER SHEET

TO: Robert Eidson

COMPANY: **E.T.G.**

DATE: 12-17-02

FAX NO: **606-397-4701**

NO OF PAGES FOLLOWING:

FROM: **Branli**

MESSAGE:

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the recipient or the employee, or an agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via regular postal service. Thank you.

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ANY PROBLEMS IN RECEIVING THIS
TRANSMISSION.

TRACE ANALYSIS, INC

A Laboratory For Advanced

5



4221 Freidrich Lane, Suite 190, Austin, Texas 78744-1044 ☐ (512) 444-5896 FAX: (512) 447-4766

September 13, 2001

Environmental Tech Group
Ken Dutton
2540 W. Marland
Hobbs, NM 88240

Dear Mr. Dutton:

Please find the enclosed reports for sample 118040-118061 for the Jimmy Copper EOT 2074C project we received on 8/14/2001.

We apologize for the amount of time it has taken to provide these report, but several attempts were made to clarify analyses requested, the type of bottles and preservatives that were received and holding times.

On 8/17/01 Jennifer Long was told that you were unavailable so she spoke with Simon Casas. He did not know the answers to the questions, but would talk to you or Britt Byerly and get back with her. She never heard back from him. On 8/22/01 Michael Leva left a detailed message for you to contact him as soon as possible. Michael never received a call back.

Due to the unanswered questions, several assumptions had to be made to provide you with some type of useable data. Two data quality concerns resulted and are as follows:

- 1) The TPH by GC (as diesel) data has elevated RQLs due to the low sample volume. The bottles received were 40 mL VOAs rather than the typical 1L unpreserved. The hold time exceeded for TPH by GC (as diesel) while we were waiting for an answer on if you would like to acquire more sample or run as received.
- 2) Several metal RQLs were elevated due to the high sediment content. It was and remains unclear if the metals Calcium, Iron, Magnesium, Manganese, Potassium, and Sodium were to be run as totals or as dissolved so as to compare them to the anions requested or even what list of metals was needed for the project.

Please let me know if I or anyone else from AnalySys, Inc. can be of any further assistance concerning this project and or future projects requiring this list of analyses.



4221 Freidrich Lane, Suite 190, Austin, Texas 78744-1044 ☐ (512) 444-5896 FAX: (512) 447-4766

Sincerely,

Richard Laster

Richard Laster
Q.A. Manager
AnalySys, Inc.

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118040 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW2

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	J,P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	7.7	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	1.68	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	2.13	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW2

Report#/Lab ID#: 118040
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	62.2	50-150	---
Chlorobenzene-d5(Sur)	8015 mod.	101.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	105	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118040	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW2		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118041 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW3
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/10/2001 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	J	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	1.7	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatiles organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	506	µg/L	20	<20	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	28.5	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	76.3	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	17.9	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	J	1.6	84.5	86	88.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW3

Report#/Lab ID#: 118041
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	102.9	50 - 150	---
p-Terphenyl	8015 mod.	62.2	50-150	---
1,2-Dichloroethane-d4	8260b	121	80-120	X
Toluene-d8	8260b	109	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118041	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW3		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Toluene	J	See J-flag discussion above.
1,2-Dichloroethane-d4	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
1,2-Dichloroethane-d4	X	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118042 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW4
Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/10/2001 **Time:** 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	J	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	0.7	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	13.2	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	10.6	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	25.2	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	25.5	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	J	1.6	84.5	86	88.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW4

Report#/Lab ID#: 118042
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	113.8	50 - 150	---
p-Terphenyl	8015 mod.	60.9	50-150	---
1,2-Dichloroethane-d4	8260b	112	80-120	---
Toluene-d8	8260b	99.8	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118042 Matrix: water

Client: Environmental Tech Group Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW4

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report# / Lab ID#: 118043 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW5
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/10/2001 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	1400	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/15/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/17/01	3015	---	---	---	---	---
Total dissolved solids	964	mg/L	1	<1	08/16/01	160.1	---	0.97	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	80156 mod.	J	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	J,P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/23/01	6010 & 200.7	---	1.71	114.4	104.2	103.24
Barium/ICP	0.0927	mg/L	0.01	<0.01	08/20/01	6010 & 200.7	---	0.57	97.16	99.5	102.32
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	08/20/01	6010 & 200.7	---	0	97.74	104	97.66
Calcium/ICP	561	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.0626	mg/L	0.01	<0.01	08/20/01	6010 & 200.7	---	0.62	97.08	104.25	100.54
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	0.26	93.38	103	96.11
Copper/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	0.54	100.59	96.9	98.78
Iron/ICP	15.2	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	3.27	110.4	100.08	103.69
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/23/01	6010 & 200.7	---	0.82	98.51	106.55	101.76
Magnesium/ICP	7.22	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	0.84	96.94	92.4	96.31
Manganese/ICP	0.23	mg/L	0.01	<0.01	08/23/01	6010 & 200.7	---	2.35	109.58	108.25	103.47
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/15/01	245.1&7470	---	0.93	108.08	104	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	3.13	94.94	101.5	97.94

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Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW5

Report#/Lab ID#: 118043
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	1.27	93.57	100.5	97.56
Potassium/AA	7.98	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	1.49	97.52	108.28	96.98
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/20/01	272.2&7761	---	2.27	81.65	82.5	107
Sodium/ICP	85.1	mg/L	0.5	<0.5	08/20/01	6010 & 200.7	---	1.35	96.12	105.25	97.34
Zinc/ICP	0.0331	mg/L	0.01	<0.01	08/23/01	6010 & 200.7	---	1.81	107.02	100	102
Alkalinity, total	370	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	231	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.2	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	<0.01	mg/L	0.01	<0.01	08/15/01	353.1	J	2.06	109.18	111.87	106.2
Sulfate	81.3	mg/L	2	<2	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	1.78	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	1.03	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	2.13	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW5

Report#/Lab ID#: 118043
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW5

Report#/Lab ID#: 118043
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	122.5	50 - 150	---
p-Terphenyl	8015 mod.	64.2	50-150	---
1,2-Dichloroethane-d4	8260b	111	80-120	---
Toluene-d8	8260b	96.6	88-110	---
2-Fluorobiphenyl	8270c	45.1	43-116	---
Nitrobenzene-d5	8270c	60.9	35-114	---
Terphenyl-d14	8270c	56.6	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118043	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW5		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Nitrate/Nitrite-N	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118044 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW6
Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 10:47

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	J	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	0.6	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	48.9	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	6.52	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	5.97	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

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Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW6

Report#/Lab ID#: 118044
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	94.8	50 - 150	---
p-Terphenyl	8015 mod.	57.9	50-150	---
1,2-Dichloroethane-d4	8260b	86.6	80-120	---
Toluene-d8	8260b	107	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118044 Matrix: water
Client: Environmental Tech Group
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW6
Attn: Ken Dutton

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118045 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW12

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 11:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatiles organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

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Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW12

Report#/Lab ID#: 118045
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	87.8	50 - 150	---
	8015 mod.	54.4	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	90.9	80-120	---
	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118045	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW12		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118046 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW13

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 12:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	J,P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	2.28	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	1.51	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	1.12	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW13

Report#/Lab ID#: 118046
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	91.3	50 - 150	---
p-Terphenyl	8015 mod.	57	50-150	---
1,2-Dichloroethane-d4	8260b	91.3	80-120	---
Toluene-d8	8260b	105	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118046 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW13

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland

Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118047 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW14

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/09/2001 **Time:** 14:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	J	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW14

Report#/Lab ID#: 118047
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	95.7	50 - 150	---
	8015 mod.	59.1	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	93.8	80-120	---
	8260b	103	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118047 Matrix: water Attn: Ken Dutton
Client: Environmental Tech Group
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW14

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Benzene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118048 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW 15

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	15.4	86.6	121.6	113.3
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/23/01	8015 mod.	S,M,P	16.43	108.1	104.7	107.23
Volatile organics-8260b/BTEX	---	---	---	---	08/22/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/22/01	8260b	---	2.5	85.8	87.7	87.7
Ethylbenzene	<1	µg/L	1	<1	08/22/01	8260b	---	3.2	101.1	98.8	102.3
m,p-Xylenes	<1	µg/L	1	<1	08/22/01	8260b	---	2.2	95.1	93.9	97.3
o-Xylene	<1	µg/L	1	<1	08/22/01	8260b	---	1.8	100.7	99.5	100.8
Toluene	<1	µg/L	1	<1	08/22/01	8260b	J	2.2	86.3	88.1	75.1

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Respectfully Submitted,

Richard Last

Richard Last

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW 15

Report#/Lab ID#: 118048
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	117.7	50 - 150	---
1,2-Dichloroethane-d4	8260b	115	80-120	---
Toluene-d8	8260b	101	88-110	---
p-Terphenyl	TX 1005	59.7	50-150	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118048	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW 15		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118049 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW16

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 11:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	15.4	86.6	121.6	113.3
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatle organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

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Respectfully Submitted,

Richard Lastar

Richard Lastar

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW16

Report#/Lab ID#: 118049
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur)	8015 mod.	77.7	50 - 150	---
p-Terphenyl	8015 mod.	51.9	50-150	---
1,2-Dichloroethane-d4	8260b	91.9	80-120	---
Toluene-d8	8260b	118	88-110	X

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118049 Matrix: water
Client: Environmental Tech Group
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW16
Attn: Ken Dutton

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

A J flag data qualifier indicates (as required under TNRC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Toluene-d8	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Toluene-d8	X	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118050 **Report Date:** 09/13/01

Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW17

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/10/2001 **Time:** 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2

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Respectfully Submitted,

Richard Laster

Richard Laster

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW17

Report#/Lab ID#: 118050
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	90.1	50 - 150	---
	8015 mod.	54.6	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	90.9	80-120	---
	8260b	104	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118050	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW17		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118051 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW19

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/09/2001 **Time:** 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	130	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/15/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	1040	mg/L	1	<1	08/16/01	160.1	---	0.97	---	---	---
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	0.14	96.46	95.95	95.9
Barium/ICP	3.42	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	08/20/01	6010 & 200.7	---	0	97.74	104	97.66
Calcium/ICP	47.7	mg/L	1	<1	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.0289	mg/L	0.01	<0.01	08/20/01	6010 & 200.7	---	0.62	97.08	104.25	100.54
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	J	0.26	93.38	103	96.11
Copper/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	J	0.54	100.59	96.9	98.78
Iron/ICP	21.6	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	1.64	95.26	101.73	99.71
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	J	0.82	98.51	106.55	101.76
Magnesium/ICP	2.14	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	0.299	mg/L	0.01	<0.01	08/20/01	6010 & 200.7	---	0.82	96.93	107.25	101.19
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/15/01	245.1&7470	---	0.93	108.08	104	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	3.13	94.94	101.5	97.94

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW19

Report#/Lab ID#: 118051
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.0203	mg/L	0.02	<0.02	08/20/01	6010 & 200.7	---	1.27	93.57	100.5	97.56
Potassium/AA	8.31	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/20/01	6010 & 200.7	---	1.49	97.52	108.28	96.98
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/20/01	272.2&7761	---	2.27	81.65	82.5	107
Sodium/ICP	35.1	mg/L	0.5	<0.5	08/20/01	6010 & 200.7	---	1.35	96.12	105.25	97.34
Zinc/ICP	0.0449	mg/L	0.01	<0.01	08/20/01	6010 & 200.7	---	0.91	98.24	108.88	100.42
Alkalinity, total	260	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	231	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.2	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	1.34	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	86.6	mg/L	5	<5	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/27/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	J	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group Attn: Ken Dutton	Project ID: Jimmy Cooper EOT 2074C Sample Name: MW19	Report#/Lab ID#: 118051 Sample Matrix: water
--	---	---

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	J	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.6	82.5	87.3	87.2



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(512) 444-5896 FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW19

Report#/Lab ID#: 118051
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	76.5	50 - 150	---
	8015 mod.	62.1	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	89.5	80-120	---
	8260b	103	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	50.4	43-116	---
	8270c	97.6	35-114	---
	8270c	115	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118051	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW19		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Cobalt/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Chrysene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#: Lab ID#: 118052 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW21
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/09/2001 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	730	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/15/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	1110	mg/L	1	<1	08/16/01	160.1	---	0.97	NA-	NA-	NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	J,P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	3.05	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	250	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.174	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	J	0.82	104.32	106	102.96
Copper/ICP	<0.2	mg/L	0.2	<0.2	08/24/01	6010 & 200.7	J	1.15	104.79	90.3	101.26
Iron/ICP	151	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.1	91.46	101.1	105.41
Magnesium/ICP	26.7	mg/L	5	<5	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	1.71	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/15/01	245.1&7470	---	0.93	108.08	104	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW21

Report#/Lab ID#: 118052
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	J	1.09	103.94	100.88	104.38
Potassium/AA	7.32	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	505	mg/L	5	<5	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.313	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	320	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	241	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.3	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	1.16	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	85.1	mg/L	2	<2	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	J	2	94.1	98.5	92.3
o-Xylene	1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group Attn: Ken Dutton	Project ID: Jimmy Cooper EOT 2074C Sample Name: MW21	Report#/Lab ID#: 118052 Sample Matrix: water
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REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2



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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW21

Report#/Lab ID#: 118052
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	96.7	50 - 150	---
	8015 mod.	58.1	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	96.6	80-120	---
	8260b	104	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	50.7	43-116	---
	8270c	72.9	35-114	---
	8270c	53.1	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118052	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW21		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Sodium/ICP	B	
m,p-Xylenes	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118053 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW23
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/09/2001 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	6800	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/15/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	1600	mg/L	1	<1	08/16/01	160.1	---	0.97	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	2.4	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	j	2.01	99.84	92.3	103.47
Barium/ICP	2.81	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	2520	mg/L	20	<20	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.105	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	0.0406	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	1.15	104.79	90.3	101.26
Iron/ICP	81.3	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	0.031	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	J	0.1	91.46	101.1	105.41
Magnesium/ICP	130	mg/L	10	<10	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	1.58	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/15/01	245.1&7470	---	0.93	108.08	104	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW23

Report#/Lab ID#: 118053
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.0712	mg/L	0.04	<0.04	08/24/01	6010 & 200.7	---	1.04	84.23	102	97.27
Potassium/AA	24	mg/L	1	<1	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.004	mg/L	0.004	<0.004	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	153	mg/L	1	<1	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.138	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	360	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	399	mg/L	5	<5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	0.99	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.0709	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	47.3	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	12.2	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	27.6	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	44.8	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	22.9	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	1.77	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken DuttonProject ID: Jimmy Cooper EOT 2074C
Sample Name: MW23Report#/Lab ID#: 118053
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW23

Report#/Lab ID#: 118053
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	120.1	50 - 150	---
	8015 mod.	62.7	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	119	80-120	---
	8260b	100	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	48	43-116	---
	8270c	54.9	35-114	---
	8270c	54.2	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118053 **Matrix:** water
Client: Environmental Tech Group **Attn:** Ken Dutton
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW23

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Arsenic/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Sodium/ICP	B	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118054 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW24
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/09/2001 **Time:** 12:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	1600	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/22/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	850	mg/L	1	<1	08/16/01	160.1	---	2.93	NA-	NA-	NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	J	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	2.6	mg/L	0.25	<0.25	08/23/01	8015 mod.	S,M,P	16.43	108.1	104.7	107.23
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	123	mg/L	1	<1	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.5	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	568	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	1.54	mg/L	1	<1	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	<2	mg/L	2	<2	08/24/01	6010 & 200.7	J	1.15	104.79	90.3	101.26
Iron/ICP	1130	mg/L	5	<5	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<2	mg/L	2	<2	08/24/01	6010 & 200.7	---	0.1	91.46	101.1	105.41
Magnesium/ICP	39.6	mg/L	5	<5	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	33.9	mg/L	1	<1	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/22/01	245.1&7470	---	9.15	73.74	83	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW24

Report#/Lab ID#: 118054
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	J	1.09	103.94	100.88	104.38
Potassium/AA	6.86	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<5	mg/L	5	<5	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	128	mg/L	50	<50	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	2.55	mg/L	1	<1	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	390	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	180	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.0949	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	28.6	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/23/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/23/01	8260b	J	2.5	85.8	87.7	87.7
Ethylbenzene	<1	µg/L	1	<1	08/23/01	8260b	J	3.2	101.1	98.8	102.3
m,p-Xylenes	18.6	µg/L	1	<1	08/23/01	8260b	---	2.2	95.1	93.9	97.3
o-Xylene	9.95	µg/L	1	<1	08/23/01	8260b	---	1.8	100.7	99.5	100.8
Toluene	1.11	µg/L	1	<1	08/23/01	8260b	---	2.2	86.3	88.1	75.1
Acenaphthene	0.26	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	0.153	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	0.202	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	0.116	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	0.143	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	0.193	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	0.178	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	1.69	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	0.266	µg/L	0.05	<0.05	08/22/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW24

Report#/Lab ID#: 118054
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	1.24	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	0.09	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW24

Report#/Lab ID#: 118054
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	108.5	50 - 150	---
	8015 mod.	61.1	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	106	80-120	---
	8260b	101	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	49.2	43-116	---
	8270c	63.8	35-114	---
	8270c	61.6	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118054 Matrix: water
Client: Environmental Tech Group
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW24

Attn: Ken Dutton

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	S,M	MS and/or MSD recovers outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Copper/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. blanks associated with the analysis were found to have analyte above the RQL.
Benzene	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
Benzofluoranthene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118055 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW25
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/09/2001 **Time:** 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	2000	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/22/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	911	mg/L	1	<1	08/16/01	160.1	---	2.93	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	0.4	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.5	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	7.82	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	717	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.171	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	<0.2	mg/L	0.2	<0.2	08/24/01	6010 & 200.7	---	1.15	104.79	90.3	101.26
Iron/ICP	99.3	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<0.2	mg/L	0.2	<0.2	08/24/01	6010 & 200.7	---	0.1	91.46	101.1	105.41
Magnesium/ICP	44.6	mg/L	5	<5	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	2.81	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/22/01	245.1&7470	---	9.15	73.74	83	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalSys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalSys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalSys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalSys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW25

Report#/Lab ID#: 118055
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.2	mg/L	0.2	<0.2	08/24/01	6010 & 200.7	J	1.04	84.23	102	97.27
Potassium/AA	6.73	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.5	mg/L	0.5	<0.5	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	187	mg/L	50	<50	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.254	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	430	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	273	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.1	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.0738	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	<1	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/27/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	15.3	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	2.48	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	J	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.1	88.5	89	107.3
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	J	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	0.061	µg/L	0.05	<0.05	08/27/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW25

Report#/Lab ID#: 118055
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/27/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW25

Report#/Lab ID#: 118055
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	130.1	50 - 150	---
	8015 mod.	63.2	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	126	80-120	X
	8260b	104	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	46.2	43-116	---
	8270c	112	35-114	---
	8270c	84.7	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118055	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: Jimmy Cooper EOT 2074C		
Sample Name: MW25		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Nickel/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. blanks associated with the analysis were found to have analyte above the RQL.
Benzofl[anthracene	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.
1,2-Dichloroethane-d4	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
1,2-Dichloroethane-d4	X	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118056 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW26
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/09/2001 **Time:** 13:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	2400	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/22/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	980	mg/L	1	<1	08/16/01	160.1	---	2.93	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	2.1	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	0.4	mg/L	0.01	<0.01	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	840	mg/L	10	<10	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.0728	mg/L	0.01	<0.01	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	J	1.15	104.79	90.3	101.26
Iron/ICP	44.9	mg/L	5	<5	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	J	0.1	91.46	101.1	105.41
Magnesium/ICP	77.3	mg/L	5	<5	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	0.58	mg/L	0.01	<0.01	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/22/01	245.1&7470	---	9.15	73.74	83	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW26

Report#/Lab ID#: 118056
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.0312	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	1.04	84.23	102	97.27
Potassium/AA	16.4	mg/L	0.5	<0.5	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.002	mg/L	0.002	<0.002	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	216	mg/L	50	<50	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.0943	mg/L	0.01	<0.01	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	430	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	290	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.0622	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	3.82	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	56.8	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	28.7	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	81.3	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	7.1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	J	1.6	84.5	86	88.2
Acenaphthene	0.145	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	0.664	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	0.993	µg/L	0.05	<0.05	08/22/01	8270c	---	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW26

Report#/Lab ID#: 118056
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW26

Report#/Lab ID#: 118056
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	110.6	50 - 150	---
	8015 mod.	55.7	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	110	80-120	---
	8260b	104	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	46.4	43-116	---
	8270c	58.5	35-114	---
	8270c	65.4	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118056 Matrix: water
Client: Environmental Tech Group Attn: Ken Dutton
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW26

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
Copper/ICP	J	See J-flag discussion above.
Lead/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. blanks associated with the analysis were found to have analyte above the RQL.
Toluene	J	See J-flag discussion above.
Benzo[a]anthracene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118057 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW27

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/09/2001 **Time:** 12:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	8000	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/22/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	784	mg/L	1	<1	08/16/01	160.1	---	2.93	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.25	mg/L	0.25	<0.25	08/22/01	8015 mod.	J,P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	1.51	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.01	mg/L	0.01	<0.01	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	3100	mg/L	20	<20	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.0565	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	<0.04	mg/L	0.04	<0.04	08/24/01	6010 & 200.7	J	1.15	104.79	90.3	101.26
Iron/ICP	30.9	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.1	91.46	101.1	105.41
Magnesium/ICP	71.7	mg/L	10	<10	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	0.691	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/22/01	245.1&7470	---	9.15	73.74	83	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	J	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW27

Report#/Lab ID#: 118057
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.036	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	J	1.04	84.23	102	97.27
Potassium/AA	14.7	mg/L	1	<1	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.004	mg/L	0.004	<0.004	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	92.3	mg/L	1	<1	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.0715	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	420	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	144	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.2	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.034	mg/L	0.01	<0.01	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	23.9	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	---	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW27

Report#/Lab ID#: 118057
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW27

Report#/Lab ID#: 118057
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	127.7	50 - 150	---
	8015 mod.	55.2	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	123	80-120	X
	8260b	97.9	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	62.9	43-116	---
	8270c	73.9	35-114	---
	8270c	76.9	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 118057 Matrix: water
Client: Environmental Tech Group Attn: Ken Dutton
Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW27

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
TPH by GC (as gasoline)	P	
TPH by GC (as gasoline)	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Potassium/AA	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Potassium/AA	B	
Sodium/ICP	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Sodium/ICP	B	
Naphthalene	J	See J-flag discussion above.
1,2-Dichloroethane-d4	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
1,2-Dichloroethane-d4	X	

Notes:

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118058 **Report Date:** 09/13/01
Project ID: Jimmy Cooper EOT 2074C

Sample Name: MW28

Sample Matrix: water

Date Received: 08/14/2001 **Time:** 11:00

Date Sampled: 08/09/2001 **Time:** 12:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	08/16/01	3520	---	---	---	---	---
Hardness	22000	mg/L CaC	---	---	08/29/01	SM 2340B	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	08/22/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	08/21/01	3015	---	---	---	---	---
Total dissolved solids	854	mg/L	1	<1	08/16/01	160.1	---	2.93	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<5	mg/L	5	<5	09/10/01	8015 mod.	---	12.1	83	109.5	97.2
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3510	---	---	---	---	---
TPH by GC (as gasoline)	0.3	mg/L	0.25	<0.25	08/22/01	8015 mod.	P	17.59	94.5	112.7	109.59
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	2.01	99.84	92.3	103.47
Barium/ICP	3.09	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	17.78	69.8	97.75	80.09
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	08/24/01	6010 & 200.7	---	0.81	97.43	93.5	101.89
Calcium/ICP	829	mg/L	20	<20	08/24/01	6010 & 200.7	---	0.26	100.59	99	116.46
Chromium/ICP	0.0252	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.08	89.48	98.5	102
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	0.82	104.32	106	102.96
Copper/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	1.15	104.79	90.3	101.26
Iron/ICP	15.3	mg/L	0.1	<0.1	08/24/01	6010 & 200.7	---	0.23	95.07	99.23	106.31
Lead/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.1	91.46	101.1	105.41
Magnesium/ICP	4890	mg/L	10	<10	08/24/01	6010 & 200.7	---	16.64	87.32	105.55	110.23
Manganese/ICP	0.472	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.14	94.95	98.75	103.92
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	08/22/01	245.1&7470	---	9.15	73.74	83	99.33
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	09/08/01	6010 & 200.7	---	2.2	108.6	106.5	101.26

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW28

Report#/Lab ID#: 118058
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	J	1.04	84.23	102	97.27
Potassium/AA	7.83	mg/L	1	<1	08/22/01	258.1&7610	B	0.61	92.03	96.52	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	08/24/01	6010 & 200.7	---	1.48	95.81	90.93	100.14
Silver/GFAA	<0.004	mg/L	0.004	<0.004	08/21/01	272.2&7761	---	0.99	93.58	102.5	97
Sodium/ICP	130	mg/L	1	<1	08/24/01	6010 & 200.7	B	9.58	91.51	105.4	107.88
Zinc/ICP	0.0547	mg/L	0.02	<0.02	08/24/01	6010 & 200.7	---	0.22	93.04	93.5	103.69
Alkalinity, total	410	mg/L	10	<10	08/16/01	310.1	---	1.53	-NA-	-NA-	-NA-
Chloride	203	mg/L	2.5	<2.5	08/20/01	325.2&9251	---	0.65	105.2	105.78	96.98
Fluoride	1.2	mg/L	0.05	<0.05	08/15/01	340.2	---	8.57	99.1	87.98	87.98
Nitrate/Nitrite-N	0.328	mg/L	0.1	<0.1	08/15/01	353.1	---	2.06	109.18	111.87	106.2
Sulfate	18.2	mg/L	1	<1	08/20/01	375.4&9038	---	1.02	105.48	100.01	102.95
Extractable organics-PAH	---	---	---	---	08/22/01	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/21/01	8260b	---	---	---	---	---
Benzene	3.06	µg/L	1	<1	08/21/01	8260b	---	0.9	84.1	87.2	86.1
Ethylbenzene	<1	µg/L	1	<1	08/21/01	8260b	J	1.4	98.5	102.3	96.4
m,p-Xylenes	<1	µg/L	1	<1	08/21/01	8260b	---	2	94.1	98.5	92.3
o-Xylene	<1	µg/L	1	<1	08/21/01	8260b	---	1.9	99.4	100.5	98.2
Toluene	<1	µg/L	1	<1	08/21/01	8260b	---	1.6	84.5	86	88.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14.2	68.5	88	72.1
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	14	70.9	92.1	75.8
Anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.3	81.2	83.6	88.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	1.1	87.6	83.2	95.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	2.3	72.6	85.8	73.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	70.1	82.2	81.9
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.1	88.5	89	107.3
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1	79.6	89	78.6
Chrysene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.8	86.5	86.3	87.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.7	92.1	93.1	99.4
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.4	82.7	83.7	83.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	7.2	66.7	85.3	70.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	0.1	82.5	85.2	100.2
Naphthalene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	J	23.8	63.9	99.9	66.9

Client: Environmental Tech Group
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Project ID: Jimmy Cooper EOT 2074C
Sample Name: MW28

Report#/Lab ID#: 118058
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	4.3	87.1	88.8	89.9
Pyrene	<0.05	µg/L	0.05	<0.05	08/22/01	8270c	---	1.6	82.5	87.3	87.2

Client: Environmental Tech Group
Attn: Ken Dutton

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Sample Name: MW28

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Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Chlorobenzene-d5(Sur) p-Terphenyl	8015 mod.	95.5	50 - 150	---
	8015 mod.	55.9	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	94.9	80-120	---
	8260b	100	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	48.2	43-116	---
	8270c	68.7	35-114	---
	8270c	73.8	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.