

RECR - 10 Windmill Oil

Water Quality Data

Pre-2000



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7151

December 14, 1998

Jan Pfeiffer
4011 W. Bender
Hobbs, NM 88240

Re: Water Well Sampling & Testing

Dear Ms. Pfeiffer:

Please find enclosed the analytical results for your water well sampled by NMOCD on September 28, 1998. I have high lighted the actual results for you, the other information is lab quality control information. Please note this sample was taken from the front yard spigot and at the time of sampling the water was clear and there were no hydrocarbon odors detected. The analytical results did not reflect any water contaminants that exceed the New Mexico ground water standards.

If you experience problems in the future and have your well worked on again please notify NMOCD so we can observe the water taken directly from the well bore. If you require any further information or assistance please do not hesitate to call (505-827-7155) or write this office.

Sincerely Yours,

Wayne Price-Environmental Bureau

cc: Chris Williams-NMOCD District I Supervisor

attachments=yes

computer file: O/wp/pfeiffer

Hard copy file: West Hobbs Pool

NOTE: PUMP SET AT
~ 180-200' TOP OF
REN. BGA!
JP

**PINNACLE
LABORATORIES**

Remit to: Pinnacle Laboratories, Inc.
P.O. Box 36720
Albuquerque, NM 87176-6720
Phone: (505) 344-3777 Fax: (505) 344-4413

007 26

Bill N.M. Oil Conservation Division
To: 2040 South Pacheco
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
10/23/98	78204

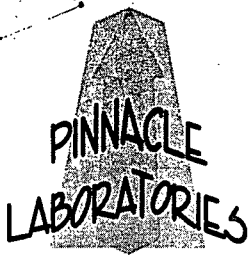
Project Name: Jan Pfeiffer Well
4011 W Bender, Hobbs, NM 88240

Original
BALANCE DUE: 400.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
1	Aromatic Volatile Organics: Method 8021 BTE	40.00	40.00
1	Item-25: Fl, Br, Ca, K, Mg, Na, Alk, Cl, SO TDS, Cation/Anion Balance (5%), pH Conductivity.	160.00	160.00
1	Item-24: Metals by ICAP Method 6010: Al, Sb As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Tl, V, Zn	200.00	200.00
<i>OK- WAYNE PRICE</i>			
Accession #: 809074 Authorized By: Wayne Price		TOTAL:	400.00

A finance charge of 11/2% will be charged on balances 30 days past due
DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

OCT 26 1998

LABORATORY DIVISION

Pinnacle Lab ID number **809074**
October 23, 1998

NMOCD
2040 S. PACHECO
SANTA FE, NM 87505

Project Name JAN PFEIFFER WELL
Project Number (none)

Attention: WAYNE PRICE

On 9/29/98 Pinnacle Laboratories, Inc., formerly American Environmental Network (NM), Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA methods 150.1 and 8021 were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

All other parameters were performed by ESL (OR) Inc., Portland, OR.

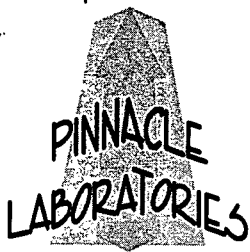
If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

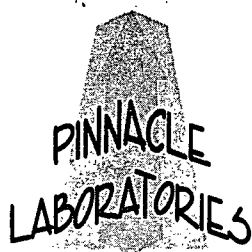
MR: mt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
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Fax (505) 344-4413

CLIENT	: NMOC	PINNACLE ID	: 809074
PROJECT #	: (none)	DATE RECEIVED	: 9/29/98
PROJECT NAME	: JAN PFEIFFER WELL	REPORT DATE	: 10/23/98
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9809281030	AQUEOUS	9/28/98



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : JAN PFEIFFER WELL

PINNACLE I.D.: 809074

SAMPLE	DATE	DATE	DATE	DIL.		
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	9809281030	AQUEOUS	9/28/98	NA	9/29/98	1

PARAMETER	DET. LIMIT	UNITS	01
BENZENE	0.5	UG/L	< 0.5
TOLUENE	0.5	UG/L	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5

SURROGATE:

BROMOFLUOROBENZENE (%) 100

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

N/A



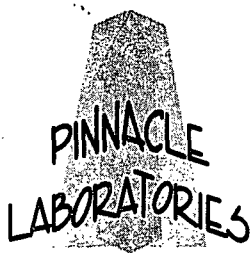
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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 809074
BLANK I. D.	: 092998	DATE EXTRACTED	: NA
CLIENT	: NMOCD	DATE ANALYZED	: 9/29/98
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: JAN PFEIFFER WELL		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5

SURROGATE:
BROMOFLUOROBENZENE (%) 99
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 809068-04
CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : JAN PFEIFFER WELL

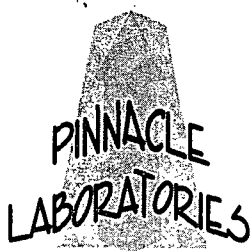
PINNACLE I.D. : 809074
DATE EXTRACTED : NA
DATE ANALYZED : 9/29/98
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	9.8	98	9.6	96	2	(80 - 120)	20
TOLUENE	<0.5	10.0	9.9	99	10.3	103	4	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	10.0	100	10.5	105	5	(80 - 120)	20
TOTAL XYLENES	<0.5	30.0	30.2	101	30.7	102	2	(80 - 120)	20
METHYL-T-BUTYL ETHER	<2.5	20.0	17.3	87	17.9	90	3	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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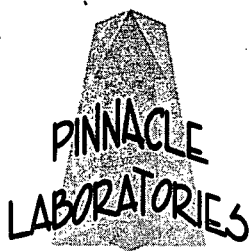
GENERAL CHEMISTRY RESULTS

CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : JAN PFEIFFER WELL

PINNACLE I.D. : 809074
DATE RECEIVED : 9/29/98

SAMPLE	DATE	DATE
ID. #	SAMPLED	ANALYZED
01	10/7/98	10/12/98
PARAMETER	UNITS	01
PH (150.1)	UNITS	6.78

CHEMIST NOTES:
N/A



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GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : JAN PFEIFFER WELL

PINNACLE I.D. : 809074
SAMPLE MATRIX : AQUEOUS

PARAMETER	UNITS	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	810029-01	6.57	6.62	1

CHEMIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Environmental Services Laboratory, Inc. E S L

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Kim McNeill
Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

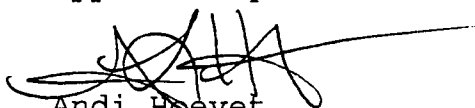
Date: 10/15/1998
ESL Account No.: 90147
ESL Job Number: 98.01915

Project: 809074 / NMOCD
Location: Jan Pfeiffer Well

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Sample Number	Sample Description	Matrix Type	Date Taken	Date Received
106154	809074 / 9809281030	Water	09/28/1998	09/30/1998
106155	809074 / 200.7 Metals	Water	09/28/1998	09/30/1998

Approved by:


Andi Hoevet
Project Manager
ESL, INC.


Technical Review
ESL, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL SERVICES FOR THE ENVIRONMENT

ANALYTICAL REPORT

Kim McNeill
Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

10/15/1998
Job No.: 98.01915

Page: 2

Project Name: 809074 / NMOCD
Date Received: 09/30/1998

Sample Number Sample Description
106154 809074 / 9809281030

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Alkalinity, Bicarb. (CaCO3)	SM 2320 B	200	5.0	mg/L	10/02/1998	
Alkalinity, Carb. (CaCO3)	SM 2320 B	ND	5.0	mg/L	10/02/1998	
Bromide	SM 4500-Br	0.17	0.20 mg/L	mg/L	10/02/1998	RD
Chloride	EPA 300.0	30	0.5	mg/L	10/01/1998	
Conductivity	120.1	290	5.0	umho	10/01/1998	
Fluoride, Total	340.2	0.90	0.2	mg/L	10/01/1998	
pH	150.1	7.1	0.1 SU		09/30/1998	X
Silica	370.1	20	0.2 mg/L	mg/L	10/01/1998	DIL,Q
Solids, Total Dissolved	160.1	410	10	mg/L	10/07/1998	
Sulfate	375.4	46	10.0	mg/L	10/01/1998	DIL,Q
ICP/AA Digestion - Water	ICP	-			10/01/1998	
Aluminum, ICP	6010	ND	0.05	mg/L	10/01/1998	
Antimony, ICP	6010	ND	0.005	mg/L	10/01/1998	
Arsenic, ICP	6010	0.007	0.005	mg/L	10/01/1998	
Barium, ICP	6010	0.066	0.005	mg/L	10/01/1998	
Beryllium, ICP	6010	ND	0.002	mg/L	10/01/1998	
Boron, ICP	6010	0.069	0.01	mg/L	10/01/1998	
Cadmium, ICP	6010	ND	0.002	mg/L	10/01/1998	
Calcium, ICP	6010	62	0.05	mg/L	10/01/1998	
Chromium, ICP	6010	ND	0.005	mg/L	10/01/1998	
Cobalt, ICP	6010	ND	0.005	mg/L	10/01/1998	
Copper, ICP	6010	ND	0.005	mg/L	10/01/1998	
Iron, ICP	6010	0.010	0.01	mg/L	10/01/1998	
Lead, ICP	6010	ND	0.005	mg/L	10/01/1998	
Magnesium, ICP	6010	11	0.05	mg/L	10/01/1998	
Manganese, ICP	6010	ND	0.005	mg/L	10/01/1998	
Molybdenum, ICP	6010	ND	0.005	mg/L	10/01/1998	
Nickel, ICP	6010	ND	0.005	mg/L	10/01/1998	
Potassium, ICP	6010	3.4	0.2	mg/L	10/01/1998	
Selenium, ICP	6010	ND	0.005	mg/L	10/01/1998	
Silver, ICP	6010	ND	0.005	mg/L	10/01/1998	
Sodium, ICP	6010	32	0.4	mg/L	10/01/1998	DIL,Q

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

Environmental Services Laboratory, Inc. (503) 670-8520 (503) 670-9243 FAX
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ANALYTICAL REPORT

Kim McNeill
Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

10/15/1998
Job No.: 98.01915

Page: 3

Project Name: 809074 / NMOCD
Date Received: 09/30/1998

Sample Number Sample Description
106154 809074 / 9809281030

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Thallium, ICP	6010	ND	0.01	mg/L	10/01/1998	
Vanadium, ICP	6010	0.032	0.005	mg/L	10/01/1998	
Zinc, ICP	6010	0.012	0.005	mg/L	10/01/1998	

Sample Number Sample Description
106155 809074 / 200.7 Metals

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
ICP/AA Digestion - Water	ICP	-			10/12/1998	
Calcium, ICP 200.7	200.7	63	0.05	mg/L	10/13/1998	
Magnesium, ICP 200.7	200.7	13	0.05	mg/L	10/13/1998	
Potassium, ICP 200.7	200.7	3.5	0.2	mg/L	10/13/1998	
Sodium, ICP 200.7	200.7	35	0.2	mg/L	10/13/1998	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD

Analyte	CCV			
	True Concentration	Concentration Found	Percent Recovery	Date Analyzed
Alkalinity, Bicarb. (CaCO ₃)	201	215	107.0	10/02/1998
Chloride	10.0	10.8	108.0	10/01/1998
Conductivity	102.5	108	105.4	10/01/1998
Fluoride, Total	7.0	7.4	105.7	10/01/1998
pH	8.0	7.98	99.8	09/30/1998
Silica	10.0	8.62	86.2	10/01/1998
Sulfate	13.9	12.2	87.8	10/01/1998
Aluminum, ICP	25.0	24.4	97.6	10/01/1998
Antimony, ICP	0.500	0.499	99.8	10/01/1998
Arsenic, ICP	0.500	0.499	99.8	10/01/1998
Barium, ICP	0.500	0.495	99.0	10/01/1998
Beryllium, ICP	0.500	0.511	102.2	10/01/1998
Boron, ICP	0.500	0.491	98.2	10/01/1998
Cadmium, ICP	0.500	0.499	99.8	10/01/1998
Calcium, ICP	25.0	24.2	96.8	10/01/1998
Calcium, ICP 200.7	25.0	24.3	97.2	10/13/1998
Chromium, ICP	0.500	0.496	99.2	10/01/1998
Cobalt, ICP	0.500	0.501	100.2	10/01/1998
Copper, ICP	0.500	0.504	100.8	10/01/1998
Iron, ICP	0.500	0.511	102.2	10/01/1998
Lead, ICP	0.500	0.503	100.6	10/01/1998
Magnesium, ICP	25.0	24.7	98.8	10/01/1998
Magnesium, ICP 200.7	25.0	25.0	100.0	10/13/1998
Manganese, ICP	0.500	0.503	100.6	10/01/1998
Molybdenum, ICP	0.500	0.497	99.4	10/01/1998
Nickel, ICP	0.500	0.500	100.0	10/01/1998
Potassium, ICP	5.00	5.02	100.4	10/01/1998
Potassium, ICP 200.7	5.00	4.99	99.8	10/13/1998
Selenium, ICP	0.500	0.496	99.2	10/01/1998
Silver, ICP	0.500	0.480	96.0	10/01/1998

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD

Analyte	CCV		Percent Recovery	Date Analyzed
	True Concentration	Concentration Found		
Sodium, ICP	5.00	4.82	96.4	10/01/1998
Sodium, ICP 200.7	5.00	4.87	97.4	10/13/1998
Thallium, ICP	0.500	0.490	98.0	10/01/1998
Vanadium, ICP	0.500	0.497	99.4	10/01/1998
Zinc, ICP	0.500	0.504	100.8	10/01/1998

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD

Analyte	LCS	Concentration Found	LCS % Recovery	Flags	Date Analyzed
	True Concentration				
Bromide	0.600	0.631	105.2		10/02/1998
Solids, Total Dissolved	1904	2014	105.8		10/07/1998
Aluminum, ICP	5.00	4.83	96.6		10/01/1998
Antimony, ICP	0.500	0.504	100.8		10/01/1998
Arsenic, ICP	0.500	0.503	100.6		10/01/1998
Barium, ICP	0.500	0.507	101.4		10/01/1998
Beryllium, ICP	0.500	0.501	100.2		10/01/1998
Boron, ICP	0.500	0.498	99.6		10/01/1998
Cadmium, ICP	0.500	0.492	98.4		10/01/1998
Calcium, ICP	5.00	4.89	97.8		10/01/1998
Calcium, ICP 200.7	5.00	5.12	102.4		10/13/1998
Chromium, ICP	0.500	0.501	100.2		10/01/1998
Cobalt, ICP	0.500	0.511	102.2		10/01/1998
Copper, ICP	0.500	0.518	103.6		10/01/1998
Iron, ICP	2.00	2.14	107.0		10/01/1998
Lead, ICP	0.500	0.490	98.0		10/01/1998
Magnesium, ICP	5.00	4.97	99.4		10/01/1998
Magnesium, ICP 200.7	5.00	5.29	105.8		10/13/1998
Manganese, ICP	0.500	0.499	99.8		10/01/1998
Molybdenum, ICP	0.500	0.510	102.0		10/01/1998
Nickel, ICP	0.500	0.492	98.4		10/01/1998
Potassium, ICP	5.00	5.33	106.6		10/01/1998
Potassium, ICP 200.7	5.00	5.27	105.4		10/13/1998
Selenium, ICP	0.500	0.482	96.4		10/01/1998
Silver, ICP	0.500	0.498	99.6		10/01/1998
Sodium, ICP	5.00	4.64	92.8		10/01/1998
Sodium, ICP 200.7	5.00	4.67	93.4		10/13/1998
Thallium, ICP	0.500	0.489	97.8		10/01/1998
Vanadium, ICP	0.500	0.508	101.6		10/01/1998
Zinc, ICP	0.500	0.499	99.8		10/01/1998

LCS - Laboratory Control Standard

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QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOC

Analyte	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Units	Percent	MS/MSD	Flags
	Spike						Spike				
	Result	Result	Amount		Recovery	Result	Amount		Recovery	RPD	
Bromide	0.398	0.17	0.200	mg/L	114.0	0.386	0.20	mg/L	108.0	5.4	RD
Chloride	41	30	10.0	mg/L	110.0	41	10.0	mg/L	110.0	0.0	
Fluoride, Total	5.9	1.0	5.0	mg/L	98.0	6.3	5.0	mg/L	106.0	7.7	
Silica	24.0	20	5.0	mg/L	80.0	24.0	5.0	mg/L	80.0	0.0	DIL, Q
Sulfate	93.7	46	50.0	mg/L	95.4	95.2	50.0	mg/L	98.4	3.1	DIL, Q
Aluminum, ICP	4.96	0.0966	5.00	mg/L	97.3	4.92	5.00	mg/L	96.5	0.8	
Antimony, ICP	0.507	ND	0.500	mg/L	101.4	0.508	0.500	mg/L	101.6	0.2	
Arsenic, ICP	0.502	ND	0.500	mg/L	100.4	0.506	0.500	mg/L	101.2	0.8	
Barium, ICP	0.513	0.00512	0.500	mg/L	101.6	0.511	0.500	mg/L	101.2	0.4	
Beryllium, ICP	0.507	ND	0.500	mg/L	101.4	0.510	0.500	mg/L	102.0	0.6	
Boron, ICP	0.522	ND	0.500	mg/L	104.4	0.516	0.500	mg/L	103.2	1.1	
Cadmium, ICP	0.489	ND	0.500	mg/L	97.8	0.493	0.500	mg/L	98.6	0.8	
Calcium, ICP	12.3	7.48	5.00	mg/L	96.4	12.4	5.00	mg/L	98.4	2.1	
Calcium, ICP 200.7	13.6	8.98	5.00	mg/L	92.4	14.2	5.00	mg/L	104.4	12.1	
Chromium, ICP	0.502	ND	0.500	mg/L	100.4	0.504	0.500	mg/L	100.8	0.4	
Cobalt, ICP	0.509	ND	0.500	mg/L	101.8	0.512	0.500	mg/L	102.4	0.6	
Copper, ICP	0.897	0.382	0.500	mg/L	103.0	0.893	0.500	mg/L	102.2	0.8	
QC Sample:											
106156											

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

dil. = Diluted Out

Environmental Services Laboratory, Inc. (503) 670-8520 (503) 670-9243 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998
Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD

Analyte	Matrix		Spike Amount	Units	Percent Recovery	MSD		Units	Percent Recovery	MS/MSD RPD	Flags
	Spike Result	Sample Result				MSD Result	Spike Amount				
Lead, ICP	0.848	0.375	0.500	mg/L	94.6	0.851	0.500	mg/L	95.2	0.6	
Magnesium, ICP	7.34	2.38	5.00	mg/L	99.2	7.36	5.00	mg/L	99.6	0.4	
Magnesium, ICP 200.7	8.60	3.54	5.00	mg/L	101.2	9.20	5.00	mg/L	113.2	11.2	M, P
Manganese, ICP	0.601	0.113	0.500	mg/L	97.6	0.606	0.500	mg/L	98.6	1.0	
Molybdenum, ICP	0.510	ND	0.500	mg/L	102.0	0.51	0.500	mg/L	102.0	0.0	
Nickel, ICP	0.491	ND	0.500	mg/L	98.2	0.494	0.500	mg/L	98.8	0.6	
Potassium, ICP	6.39	0.519	5.00	mg/L	117.4	6.13	5.00	mg/L	112.2	4.5	M, P
Potassium, ICP 200.7	6.91	0.39	5.00	mg/L	130.4	6.40	5.00	mg/L	120.2	8.1	M, P
Selenium, ICP	0.476	ND	0.500	mg/L	95.2	0.475	0.500	mg/L	95.0	0.2	
Silver, ICP	0.497	ND	0.500	mg/L	99.4	0.497	0.500	mg/L	99.4	0.0	
Sodium, ICP	14.4	9.91	5.00	mg/L	89.8	14.0	5.00	mg/L	81.8	9.3	
Sodium, ICP 200.7	13.7	9.00	5.00	mg/L	94.0	13.7	5.00	mg/L	94.0	0.0	
Thallium, ICP	0.487	ND	0.500	mg/L	97.4	0.489	0.500	mg/L	97.8	0.4	
Vanadium, ICP	0.512	ND	0.500	mg/L	102.4	0.514	0.500	mg/L	102.8	0.4	
Zinc, ICP	0.519	0.0319	0.500	mg/L	97.4	0.522	0.500	mg/L	98.0	0.6	

QC Sample:

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
dil. = Diluted Out

Environmental Services Laboratory, Inc. (503) 670-8520 (503) 670-9243 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

QUALITY CONTROL REPORT BLANKS

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD
Location: Jan Pfeiffer Well

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Alkalinity, Bicarb. (CaCO3)	ND	5.0	mg/L	10/02/1998
Bromide	ND	0.20	mg/L	10/02/1998
Chloride	ND	0.5	mg/L	10/01/1998
Conductivity	ND	5.0	umho	10/01/1998
Fluoride, Total	ND	0.2	mg/L	10/01/1998
Silica	ND	0.2	mg/L	10/01/1998
Solids, Total Dissolved	ND	10	mg/L	10/07/1998
Sulfate	ND	5.0	mg/L	10/01/1998
Aluminum, ICP	ND	0.05	mg/L	10/01/1998
Antimony, ICP	ND	0.005	mg/L	10/01/1998
Arsenic, ICP	ND	0.005	mg/L	10/01/1998
Barium, ICP	ND	0.005	mg/L	10/01/1998
Beryllium, ICP	ND	0.002	mg/L	10/01/1998
Cadmium, ICP	ND	0.002	mg/L	10/01/1998
Calcium, ICP	ND	0.05	mg/L	10/01/1998
Calcium, ICP 200.7	ND	0.05	mg/L	10/13/1998
Chromium, ICP	ND	0.005	mg/L	10/01/1998
Cobalt, ICP	ND	0.005	mg/L	10/01/1998
Copper, ICP	ND	0.005	mg/L	10/01/1998
Iron, ICP	ND	0.01	mg/L	10/01/1998
Lead, ICP	ND	0.005	mg/L	10/01/1998
Magnesium, ICP	ND	0.05	mg/L	10/01/1998
Magnesium, ICP 200.7	ND	0.05	mg/L	10/13/1998
Manganese, ICP	ND	0.005	mg/L	10/01/1998
Nickel, ICP	ND	0.005	mg/L	10/01/1998
Potassium, ICP	ND	0.2	mg/L	10/01/1998

Environmental Services Laboratory, Inc. (503) 670-8520 (503) 670-9243 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

QUALITY CONTROL REPORT BLANKS

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD
Location: Jan Pfeiffer Well

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Potassium, ICP 200.7	ND	0.2	mg/L	10/13/1998
Selenium, ICP	ND	0.005	mg/L	10/01/1998
Silver, ICP	ND	0.005	mg/L	10/01/1998
Sodium, ICP	ND	0.2	mg/L	10/01/1998
Sodium, ICP 200.7	ND	0.2	mg/L	10/13/1998
Thallium, ICP	ND	0.01	mg/L	10/01/1998
Vanadium, ICP	ND	0.005	mg/L	10/01/1998
Zinc, ICP	ND	0.005	mg/L	10/01/1998

Environmental Services Laboratory, Inc. (503) 670-8520 (503) 670-9243 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

QUALITY CONTROL REPORT DUPLICATES

Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 10/15/1998

Job Number: 98.01915

Contact: Kim McNeill
Project: 809074 / NMOCD

Analyte	Original Analysis	Duplicate Analysis	Units	RPD	Date Analyzed	Flag
Alkalinity, Bicarb. (CaCO3)	200	190	mg/L	5.1	10/02/1998	
Alkalinity, Bicarb. (CaCO3)	ND	ND	mg/L		10/02/1998	
Alkalinity, Carb. (CaCO3)	200	190	mg/L	5.1	10/02/1998	
Alkalinity, Carb. (CaCO3)	ND	ND	mg/L		10/02/1998	
Bromide	0.17	0.12	mg/L	34.5	10/02/1998	RD
Chloride	30	31	mg/L	3.3	10/01/1998	
Conductivity	ND	ND	umho		10/01/1998	
Fluoride, Total	1.0	0.98	mg/L	2.0	10/01/1998	
pH	6.8	6.9		1.5	09/30/1998	
Silica	20	20	mg/L	0.0	10/01/1998	
Solids, Total Dissolved	410	380	mg/L	7.6	10/07/1998	
Sulfate	46	47	mg/L	2.2	10/01/1998	DIL,Q

NOTE: Duplicates may not be samples from this job.

RPD - Relative Percent Difference

FLAG GLOSSARY

A	This sample does not have a typical gasoline pattern.
B1	This sample does not have a typical diesel pattern.
B	Analyte found in the associated blank as well as the sample.
C	The sample contains a lighter hydrocarbon than gasoline.
CN	See case narrative
CS	Outside control limits or unusual matrix; see case narrative.
D	The sample extends to a heavier hydrocarbon range than gasoline.
d	Results on a dry weight basis
DIL	Result was calculated from dilution.
E	The sample extends to a lighter hydrocarbon range than diesel.
F	The sample extends to a heavier hydrocarbon range than diesel.
G	The positive result for gasoline is due to single component contamination.
I	The oil pattern for this sample is not typical.
J	The result for this compound is an estimated concentration.
L	The LCS recovery exceeded control limits. See the LCS page of this report.
LM	The LCS recovery exceeded control limits; the MS/MSD were in control validating the batch.
M	MS and/or MSD percent recovery exceeds control limits.
MD	Unable to calculate MS/MSD recovery due to high amount of analyte; greater than 4 times spike level.
MR	The MS/MSD RPD is greater than method criteria. The sample was re-extracted and re-analyzed with similar results indicating a non-homogeneous sample.
MM	The Matrix Spike exceeded control limits; LCS was in control validating the batch.
MI	Outside control limits due to matrix interference.
N	Manual integration performed on sample for quantification.
N/A	Not Applicable.
NC	Not calculable.
NO	Not Analyzed.
P	A post digestion spike was analyzed, and recoveries were within control limits.
Q	Detection limits elevated due to sample matrix.
Q1	Detection limits elevated due to high levels of non-target compounds. Sample(s) run at a dilution.
R	The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.
R1	The duplicate RPD was greater than 20%. Visual inspection showed the sample to be non-homogeneous.
RD	RPD not applicable for results less than five times the reporting limit.
RH	The Relative Percent Difference (RPD) between two columns was greater than 40%, the higher result was reported.
RL	The Relative Percent Difference (RPD) between two columns was greater than 40%, the lower result was reported due to obvious interference with the higher result.
RP	MS/MSD RPD is greater than 20%
SR	Surrogate recovery outside control limits. See the surrogate page of the report.
SD	Unable to quantitate surrogate due to sample dilution.
SC	Sample not provided to laboratory in proper sampling container.
V	Volatile analysis was requested, sample container received with headspace.
X1	The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.
X	Sample was analyzed outside recommended holding times.
Y	The result for this parameter was greater than the TCLP regulatory limit.
Z	The pattern seen for the parameter being analyzed is not typical.

Interlab Chain of Custody

Date: 9/29/98 Page: 1 of 1

ANALYSIS REQUEST

2709-D Pan American Freeway, NE

Albuquerque, New Mexico 87107

(505) 344-3777 Fax (505) 344-4413

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	809074	Total Number of Containers		PENSACOLA - STL-FL		Signature:	Time:	Signature:	Time:
PROJ. NAME:	NMCCP	Chain of Custody Seals		PORTLAND - ESL-OR		Signature: <i>Francine Torrey</i>	Time: 1:00	Signature:	Time:
QC LEVEL:	STD IV	Received Intact?		STL - CT					
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		STL-NEW JERSEY		Printed Name:	Date:	Printed Name:	Date:
TAT:	STANDARD RUSH!!	LAB NUMBER:	98.01915	N. CREEK		Francine Torrey 9/29/98			
				BARRINGER		Pinnacle Laboratories, Inc.		Company	
				SEQUOIA		RECEIVED BY:	1.	RECEIVED BY:	2
DUE DATE:	10/13	COMMENTS:				Signature:	Time:	Signature:	Time:
RUSH SURCHARGE:	-					Signature: <i>[Signature]</i>	Time: 1:00		
CLIENT DISCOUNT:	-					Printed Name:	Date:	Printed Name:	Date:
SPECIAL CERTIFICATION						9/30/98			
REQUIRED: YES NO	NO					Company		Company	

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:		COMPANY: NMOC - 24hrs Price	
ADDRESS:		2040 S Pacheco St	
PHONE:		505-827-7155	
FAX:		" - 8177	
BILL TO:		SAB	
COMPANY:			
ADDRESS:			
SAMPLE ID: 980928/030	DATE: 9/28/98	TIME: 10:30 AM	MATRIX: WATER
LAB I.D.: 015			
Prioritization: 1			
ANALYSIS REQUEST:			
☐ Petroleum Hydrocarbons (418.1) TRPH			
☐ (MOD.8015) Diesel/Direct Inject			
☐ (M8015) Gas/Purge & Trap			
☐ 8021 (BTEX)/8015 (Gasoline)			
☐ 8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE			
☐ 8021 (TCL)			
☐ 8021 (EDX)			
☐ 8021 (HALO)			
☐ 8021 (CUST)			
☐ 504.1 EDB ☐ / DBCP ☐			
☐ 8260 (TCL) Volatile Organics			
☐ 8260 (Full) Volatile Organics			
☐ 8260 (CUST) Volatile Organics			
☐ 8260 (Landfill) Volatile Organics			
☐ Pesticides /PCB (608/8081)			
☐ Herbicides (615/8151)			
☐ Base/Neutral/Acid Compounds GC/MS (625/8270)			
☒ Polynuclear Aromatics (610/8310)			
☒ General Chemistry: - OGD LIST			
☐ Priority Pollutant Metals (13)			
☐ Target Analyte List Metals (23)			
☐ RCRA Metals (8)			
☐ RCRA Metals by TCLP (Method 1311)			
☒ Metals: OGD LIST			
NUMBER OF CONTAINERS: 8			
PROJECT INFORMATION:			
PROJECT NO.:			
PROJ. NAME: SAN PETER WELLS			
PO. NO.: 9011 20 BEVER			
SHIPMENT: HOBBS NM 8024			
SAMPLE RECEIPT:			
NO. CONTAINERS: 8			
CUSTODY SEALS: 011/NA			
RECEIVED INTACT: YES			
BLUE ICE/ICE: 1.8°C			
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS:			
(RUSH) 12hr ☐ 48hr ☐ 72hr ☐ 1 WEEK ☐ (NORMAL) ☒			
CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER			
METHANOL PRESERVATION ☐			
COMMENTS: FIXED FEE ☐ HOLD 8310, IF BTEX IS (+) THEN RUN 8310. Took sample from SPICOT FROM WATER WELL. LET RUN 10 MIN BEFORE SAMPLING. Took pictures. 1x Amber bottle in shipment			
RELINQUISHED BY:		RELINQUISHED BY:	
Signature: [Signature]		Signature: [Signature]	
Time: 1:15 PM		Time: 1030	
Date: 9/28/98		Date: 9/29/98	
Company: 24hrs Price		Company: American Environmental Network (NM), Inc.	
RECEIVED BY:		RECEIVED BY:	
Signature: [Signature]		Signature: [Signature]	
Time: 1		Time: 1030	
Date: 9/28/98		Date: 9/29/98	
Company: 24hrs Price		Company: American Environmental Network (NM), Inc.	

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:		COMPANY: NMOC - Bay Area		ADDRESS: 2090 S Pacheco ST		PHONE: 505-827-7155		FAX: 505-827-7155		BILL TO: SAB		COMPANY: SAB		ADDRESS:	
PROJECT INFORMATION		SAMPLE ID: 980928/030		DATE: 9/28/98		TIME: 10:30 AM		MATRIX: WATER		LAB ID: -01		Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject (M8015) Gas/Purge & Trap 8021 (BTEX)/8015 (Gasoline) 8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE 8021 (TCL) 8021 (EDX) 8021 (HALO) 8021 (CUST) 504.1 EDB ☐ / DBCP ☐ 8260 (TCL) Volatile Organics 8260 (Full) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Landfill) Volatile Organics Pesticides /PCB (608/8081) Herbicides (615/8151) Base/Neutral/Acid Compounds GC/MS (625/8270) Polynuclear Aromatics (610/8310) General Chemistry: - OCD LIST Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals: OCD LIST			
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒		CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER METHANOL PRESERVATION ☐		COMMENTS: FIXED FEE ☐ HOLD 8310, IF BTEX IS (+) THEN RUN 8310.1 TEST SAMPLE FROM SPIGOT FROM WATER WELL. LET RUN 10 MIN BEFORE SAMPLING. TEST PLUCKERS. 1X Amber bucket in shipment		RELINQUISHED BY: 1. Signature: [Signature] Time: 1:15 PM Printed Name: Bay Area Date: 9/28/98 Company:		RELINQUISHED BY: 2. Signature: [Signature] Time: 1030 Printed Name: Marcia Torino Date: 9/28/98 Company: American Environmental Network (NM), Inc.		RECEIVED BY: 1. Signature: [Signature] Time: 1. RECEIVED BY: (LAB) 2. Signature: [Signature] Time: 1030 Printed Name: Marcia Torino Date: 9/28/98 Company: American Environmental Network (NM), Inc.			

MILEAGE

UIC: _____
OTHER: _____

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:

NAME: JAN PREIFFER
ADDRESS: 4011 W BENDER
HOBBS N.M. 88240

INFORMATION TAKEN BY:

TAKEN BY: W PRICE
DATE: 8/27/78 TIME: 2:1 PM
IN PERSON: _____ BY PHONE: ✓

PHONE: 397-4171 / 393-2564

COMPLAINT: WATER WELL DRILLED 11 YEAR AGO HAS CRUDE OIL
IN IT! WATER HAS BEEN GOOD UNTIL A WEEK AGO!

COMMENTS: WOULD LIKE FOR OCD TO SAMPLE + INVESTIGATE!

- INVESTIGATION -

INVESTIGATOR: W PRICE
DATE: 9/28/78
TIME: 7:10:30 AM

DESCRIBE INVESTIGATION AND FINDINGS:

TOOK SAMPLE FROM SPIGOT ON WEST SIDE OF HOUSE. PER
MS PREIFFER THIS COMES DIRECTLY OFF WELL. SEE COC.
TOOK PICTURES.

CHECKED SAMPLE (WATER) IN HOUSE SINK + SPIGOT OUTSIDE
CLEAR WATER, NO ODORS AT THIS TIME!

- FOLLOW-UP -

DATE: _____
TIME: _____

ACTION TAKEN: _____



1190 St. Francis Drive
Santa Fe, New Mexico 87503

OIL CONSERVATION DIVISION
RECEIVED
GARY CARRUTHERS
Governor

89 NOV 6 AM 9 11
DENNIS BOYD
Secretary

ENVIRONMENTAL IMPROVEMENT DIVISION
James Murray State Office Building
2120 N. Alto Drive
Hobbs, NM 88240
(505) 397-5250

MICHAEL J. BURKHART
Deputy Secretary

November 2, 1989

Mr. B.K. Townsend
803 Dondell
Channelview, TX 77503

Dear Mr. Townsend:

Thank you for your letter of October 23, 1989. Your trailer park, K.T. Bar Trailer Park, is no longer considered a public water supply by our office.

In regards to the oil pit near your property, in New Mexico most petroleum industrial activity is regulated by the Oil Conservation Division. Since your concern may involve this industry, I am referring it to the local and central OCD offices.

If there are any other questions concerning this matter, please feel free to contact our office.

Sincerely,

Roelf Ruffner
Environmental Supervisor

RR/pdh

cc: Jerry Sexton, OCD, 1000 W. Broadway, Hobbs 88240
David Boyer, P.O. Box 2088, Santa Fe 87501
Dennis McQuillan, EID Ground Water Bureau, Santa Fe 87503
Garrison McCaslin, HPM II, Roswell
Tom Burt, HPM I, Carlsbad/Hobbs
EID Hobbs File - KTBAR.OCD

OK
PR

B.K. Townsend
803 Dondell
Channelview, Texas 77530
(713) 452-3010

October 23, 1989

New Mexico
Health & Environment
Environment Improvement Div.
2120 N. Alto
Hobbs, New Mexico 88240

Dear Mr. Ruffner:

This is in response to your request for a written statement stating to the fact, there is only ten (10) spaces at K.T. Bar Trailer Park and there are not twenty-five (25) persons living there. In fact there are less than fifteen (15) persons at the Park since its' opening.

Since the New Mexico State Laws state that testing each month is not required unless at least Twenty-Five person are residing, I request that the monthly testing stop.

The reason that this come about in the first place, is that my manager was trying to get some results from the New Mexico State Government to do something about that open oil pit, which is in direct line with the water well system which feeds the park. This oil pit is in violation of New Mexico and most likely United States law which prohibits open oil pits which soak into the ground.

I am asking of you the names and addresses of the complete chain of command, which can do something about this problem. I am requesting that this pit be dug up, until fresh dirt can be found then refilled with clean soil. This should eliminate all contamination found in the well from time to time.

This department should be able to take care of this problem since this is an environmental hazard.

I will appreciate all help you can afford.

Sincerely,



B.K. Townsend
Owner & Operator of the
K.T. Bar Trailer Park in
Hobbs, New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

MEMORANDUM TO: Mr. Jerry Sexton, Supervisor
FROM: Eddie W. Seay, Field Rep. II
DATE: May 31, 1989
SUBJECT: Water Well Contamination

On or about May 23rd, Jerry Sexton received a call from Mrs. Vicki Wilmerth, a resident and caretaker of Townsend Trailer Park south of Hobbs. She stated that an odor and oily film was in the water which is supplied to the tenants of the trailer park.

On May 25th, I investigated the problem, met with Mrs. Wilmerth to check out the complaint. Upon collecting water samples from the well, there was no visible sign of oil or an odor from the water collected; results of water analysis are attached.

During the investigation, an odor was noted coming from a crude oil loading station located approximately 200 yards to the northwest of the water well. This facility is connected to the Shell Pipeline storage facility which is located west of the water well.

Mrs. Wilmerth stated that the EID had collected samples on the 24th and will send them off to be tested. Considering the location of the well to the oil storage tanks, further testing by our environmental staff may be necessary to resolve the problem.

This same water well was tested previously and the problem was believed to be gas in the well. No further testing was done due to economics and lack of experience in this field; I believe we now need our environmental staff to check this out.

ES:jm

A handwritten signature in cursive script, appearing to read "Eddie W. Seay", with a long horizontal line extending to the right.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Townsend WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE XX
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: 3 Mi. South & 1 Mi. West of Hobbs - Townsend Trlr. Park
WELL TYPE: Sub. DEPTH _____ feet
WELL USE: Domestic, for Trailer Park

SAMPLE NUMBER: _____ TAKEN BY: Eddie Seay
DATE: 5/25/89

Specific Conductance: 500 m μ
Total dissolved solids: 350 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 5/26/89

BY: Eddie W. Seay
OIL CONSERVATION DIVISION
Eddie W. Seay

REMARKS: 25 ml sample 142 X .6 Titration = 85.2 ppm Cl

SP - was metered.

TDS - was calculated.

No odor or any visible objects in water. Will retest when OCD Environmental Staff comes.

Water appears to be good for what was tested.

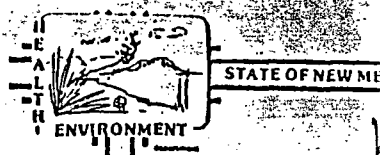
87-1298-C

87-1291-C

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE

Albuquerque, NM 87106 841-2570



REPORT TO:

Dennis McQuillan

S.L.D. No. OR-

1290-1291

EIO Groundwater

DATE REC.

7-30-87

SANTA FE

(Please also send a copy to EIO Hobbs)

PRIORITY

Two

PHONE(S):

USER CODE:

59600

SUBMITTER:

R. Ruffner

CODE:

1111

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII)

KT BARINORTH

SAMPLE TYPE: WATER ☒ SOIL ☐ FOOD ☐ OTHER: ☐

COUNTY:

Lea

CITY:

Hobbs

LOCATION CODE: (Township-Range-Section-Tracts)

19S+38E+15+

(10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

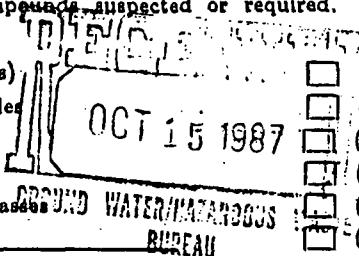
- ☒ (753) Aliphatic Purgeables (1-3 Carbons)
☒ (754) Aromatic & Halogenated Purgeables
☐ (765) Mass Spectrometer Purgeables
☐ (766) Trihalomethanes

Other Specific Compounds or Classes

☐
☐
☐
☐
☐

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
☐ (760) Organochlorine Pesticides
☐ (765) Base/Neutral Extractables
☐ (768) Herbicides, Chlorophenoxy acid
☐ (769) Herbicides, Triazines
☐ (760) Organochlorine Pesticides
☐ (761) Organophosphate Pesticides
☐ (767) Polychlorinated Biphenyls (PCB's)
☐ (764) Polynuclear Aromatic Hydrocarbons
☐ (762) SDWA Pesticides & Herbicides



Remarks:

RECEIVED
 OCT 23 1987
 HOBBS OFFICE

FIELD DATA:

pH= ; Conductivity= umho/cm at °C; Chlorine Residual= mg/l

Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate /

Depth to water ft.; Depth of well ft.; Perforation Interval - ft.; Casing:

Sampling Location, Methods and Remarks (i.e. odors, etc.)

possible petroleum contamination
 Trailer park - NORTH WELL

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities. (signature collector): R. Ruffner Method of Shipment to the Lab: UPS

This form accompanies 2 Septum Vials, 1 Glass Jugs, and/or

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (Not Frozen).
☐ P-Na₂S₂O₃ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from to

at (location) on / / - and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures

ANALYSES PERFORMED

LAB. No.: OR- 1290/1291

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☒ (753) Aliphatic Purgeables (1-3 Carbons)
☒ (754) Aromatic & Halogenated Purgeables
☐ (765) Mass Spectrometer Purgeables
☐ (766) Trihalomethanes
 Other Specific Compounds or Classes

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
☐ (760) Organochlorine Pesticides
☐ (755) Base/Neutral Extractables
☐ (758) Herbicides, Chlorophenoxy acid
☐ (759) Herbicides, Triazines
☐ (760) Organochlorine Pesticides
☐ (761) Organophosphate Pesticides
☐ (767) Polychlorinated, Biphenyls (PCB's)
☐ (764) Polynuclear Aromatic Hydrocarbons
☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC. [PPB]
HEAD SPACE		halogenated purgeables +	N.D.
METHANE MDL: 5 ppm	812 ppm	aromatic purgeables +	N.D.
ETHANE MDL: 5 ppm	5.6		
* DETECTION LIMIT *	*	+ DETECTION LIMIT +	178/L

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: CALCULATIONS AND GRAPHS IN 1324-1330

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☐ Seal(s) broken by: NOSEALS date:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

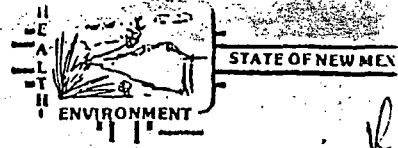
Date(s) of analysis: 8/11/87 9/11/87 Analyst's signature: R. Meyers, Mary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R. Meyers

87-1292-C 753 } wpy
87-1293-C 754

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570



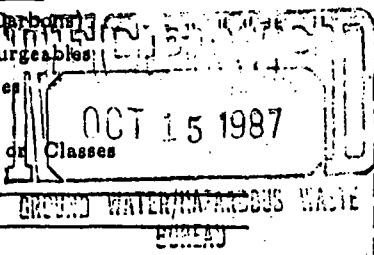
REPORT TO: DENNIS McQUILLAN S.L.D. No. OR- 1292-1293
EIO - Groundwater DATE REC. 7-30-87
SANTA FE
(Please also send a copy to EIO Hobbs) PRIORITY Two
PHONE(S): _____ USER CODE: 59600
SUBMITTER: R. Ruffner CODE: _____
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) KTBAR-A
SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____
COUNTY: LEA; CITY: Hobbs
LOCATION CODE: (Township-Range-Section-Tracts) 19S+38E+15+ (10N08E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

EXTRACTABLE SCREENS

- | | |
|--|--|
| ☒ (753) Aliphatic Purgeables (1-3 Carbons) | ☐ (751) Aliphatic Hydrocarbons |
| ☒ (754) Aromatic & Halogenated Purgeables | ☐ (760) Organochlorine Pesticides |
| ☐ (765) Mass Spectrometer Purgeables | ☐ (755) Base/Neutral Extractables |
| ☐ (766) Trihalomethanes | ☐ (758) Herbicides, Chlorophenoxy acid |
| ☐ Other Specific Compounds or Classes | ☐ (759) Herbicides, Triazines |
| ☐ | ☐ (760) Organochlorine Pesticides |
| ☐ | ☐ (761) Organophosphate Pesticides |
| ☐ | ☐ (767) Polychlorinated Biphenyls (PCB's) |
| ☐ | ☐ (764) Polynuclear Aromatic Hydrocarbons |
| ☐ | ☐ (762) SDWA Pesticides & Herbicides |



Remarks: _____

FIELD DATA:
pH= _____; Conductivity= _____ umho/cm at _____ °C; Chlorine Residual= _____ mg/l
Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ / _____
Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
possible petroleum contamination. Trailer park. mixed
sample from pressure tank.

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities. (signature collector): R. Ruffner Method of Shipment to the Lab: UPS
This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____

Samples were preserved as follows:
☐ NP: No Preservation; Sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (Not Frozen).
☐ P-Na₂S₂O₃ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY
I certify that this sample was transferred from _____ to _____
at (location) _____ on _____ / _____ / _____ - _____ : _____ and that
the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures _____

RECEIVED
OCT 23 1987
HOBBS OFFICE

ANALYSES PERFORMED

LAB. No.: OR- 1292

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☒ (753) Aliphatic Purgeables (1-3 Carbons)
☐ (754) Aromatic & Halogenated Purgeables
☐ (765) Mass Spectrometer Purgeables
☐ (766) Trihalomethanes
 Other Specific Compounds or Classes

☐ _____
☐ _____
☐ _____
☐ _____
☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
☐ (760) Organochlorine Pesticides
☐ (755) Base/Neutral Extractables
☐ (758) Herbicides, Chlorophenoxy acid
☐ (759) Herbicides, Triazines
☐ (760) Organochlorine Pesticides
☐ (761) Organophosphate Pesticides
☐ (787) Polychlorinated Biphenyls (PCB's)
☐ (764) Polynuclear Aromatic Hydrocarbons
☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC. [PPB]
HEAD SPACE		aromatic purgeables +	N.D.
METHANE MDL = 5 ppm	211 ppm	halogenated purgeables +	N.D.
ETHANE MDL = 5 ppm	1.5 ppm		
* DETECTION LIMIT *	*	+ DETECTION LIMIT +	170/L

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: CALCULATIONS AND STANDARDS chromatographs
 in sig - 1324 - 1330

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☐ Seal(s) broken by: NO SEALS

date:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 8/11/87 9/11/87 Analyst's signature: AS Murray; Mary C. Allen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: L. M. Allen



New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

RECEIVED

JUL 21 1989

GENERAL WATER CHEMISTRY
and NITROGEN ANALYSIS

DATE RECEIVED	8/1/87	LAB NO.	10P-545	USER	BIL CONSERVATION DIV	CODE	59300	59600	OTHER:
Collection DATE	7/12/87	SITE INFORMATION	Sample location	K.T. BAR-A					
Collection TIME	7:45 PM		Collection site description	TRAILER PARK - Hobbs					
Collected by — Person/Agency	R. Kuttner EID								

SEND
FINAL
REPORT
TO

GROUND WATER & HAZARDOUS WASTE BUREAU
NM ENVIRONMENT IMPROVEMENT DIVISION/HED
Crown Building, PO Box 968
Santa Fe, NM 87504-0968

Attn: DENNIS McQUILLAN
(Please also send a copy to EID Hobbs)

T195, R3PE, Sec 15

RECEIVED

OCT 23 1987

Station/
well code

HOBBS OFFICE

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped	☐ Pump ☒ Tap	Water level	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) μ mho	Water Temp. (00010) $^{\circ}$ C	Conductivity at 25 $^{\circ}$ C (00094) μ mho	
Field comments: collected from pressure tank. Possible petroleum/brine contamination.				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted	☒ NF: Whole sample (Non-filtered)	☐ F: Filtered in field with 0.45 μ m membrane filter	☐ A: 2 ml H ₂ SO ₄ /L added
☐ NA: No acid added ☐ Other-specify: HNO ₃ ICAP SCAN			

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed	F, NA	Units	Date analyzed
☐ Conductivity (Corrected) 25 $^{\circ}$ C (00095)	μ mho		☐ Calcium (00915)	mg/l	
☐ Total non-filterable residue (suspended) (00530)	mg/l		☐ Magnesium (00925)	mg/l	
☐ Other:			☐ Sodium (00930)	mg/l	
☐ Other:			☐ Potassium (00935)	mg/l	
☐ Other:			☐ Bicarbonate (00440)	mg/l	
			☐ Chloride (00940)	mg/l	
			☐ Sulfate (00945)	mg/l	
			☐ Total filterable residue (dissolved) (70300)	mg/l	
			☒ Other: ICAP SCAN		
NF, A-H ₂ SO ₄			F, A-H ₂ SO ₄		
☐ Nitrate-N +, Nitrate-N total (00630)	mg/l		☐ Nitrate-N +, Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N total (00610)	mg/l		☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ()	mg/l		☐ Total Kjeldahl-N ()	mg/l	
☐ Chemical oxygen demand (00340)	mg/l		☐ Other:		
☐ Total organic carbon ()	mg/l				
☐ Other:					
☐ Other:					

Analyst

Date Reported

Reviewed by

8/19/87

Jim Ashby

Laboratory remarks:



New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

860
WNN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED	8/4/87	LAB NO.	WC-3416	USER CODE	☐ 59300 ☒ 59600 ☐ OTHER:
Collection DATE	7/17/87	SITE INFORMATION	Sample location		
Collection TIME	2:45PM		K.T. BAR - A		
Collected by Person/Agency		Collection site description			
K. R. RUTHER - EID		TRAILER PARK - Hobbs			

SEND FINAL REPORT TO
GROUND WATER & HAZARDOUS WASTE BUREAU
NM ENVIRONMENT IMPROVEMENT DIVISION/HED
Crown Building, PO Box 968
Santa Fe, NM 87504-0968
Attn: DENNIS McQUILLAN
(Please also send a copy to EID Hobbs)

Station/
well code

Owner KEN TOWNSEND

T195, R38E, S41S

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped	☐ Pump ☒ Tap	Water level	Discharge	Sample type
pH (00400)	Conductivity (Uncorrected) μ mho	Water Temp. (00010) $^{\circ}$ C	Conductivity at 25 $^{\circ}$ C (00094) μ mho	
Field comments <u>collected from pressure tank. Possible petroleum/brine contamination.</u>				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted	☒ NF: Whole sample (Non-filtered)	☐ F: Filtered in field with 0.45 μ m membrane filter	☐ A: 2 ml H ₂ SO ₄ /L added
☒ NA: No acid added ☐ Other-specify:			

RECEIVED
SEP 22 1987

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed	F, NA	Units	Date analyzed
☒ Conductivity (Corrected) 25 $^{\circ}$ C (00095)	μ mho		☒ Calcium (00915)	mg/l	9/1
☐ Total non-filterable residue (suspended) (00530)	mg/l		☒ Magnesium (00925)	mg/l	9/1
☐ Other:			☒ Sodium (00930)	mg/l	8/25
☐ Other:			☒ Potassium (00935)	mg/l	"
☐ Other:			☒ Bicarbonate (00440)	mg/l	8/19
			☒ Chloride (00940)	mg/l	8/25
			☒ Sulfate (00945)	mg/l	8/25
			☒ Total filterable residue (dissolved) (70300)	mg/l	8/25
			☐ Other:		
NF, A-H ₂ SO ₄			F, A-H ₂ SO ₄		
☐ Nitrate-N ⁺ , Nitrate-N total (00630)	mg/l		☐ Nitrate-N ⁺ , Nitrate-N dissolved (00631)	mg/l	
☐ Ammonia-N total (00610)	mg/l		☐ Ammonia-N dissolved (00608)	mg/l	
☐ Total Kjeldahl-N ()	mg/l		☐ Total Kjeldahl-N ()	mg/l	
☐ Chemical oxygen demand (00340)	mg/l		☐ Other:		
☐ Total organic carbon ()	mg/l				
☐ Other:					
☐ Other:					
Laboratory remarks			Analyst Date Reported Reviewed by		
			9/7/87 CS		



SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

754
upll
OR89-0911-C

REPORT TO: DAVID BOYER S.L.D. No. OR-
N.M. OIL CONSERVATION DIVISION DATE REC. 6-27-89
P.O. Box 2088 PRIORITY 3
Santa Fe, NM 87504-2088 PHONE(S): 827-5812
COLLECTION CITY: Hobbs; COUNTY: Lea
COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 8906220840
LOCATION CODE: (Township-Range-Section-Tracts) 11915+318E+115+413- (10N06E24342)
USER CODE: 812235 SUBMITTER: David Boyer CODE: 21610
SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____
Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
☒ P-Ice Sample stored in an ice bath (Not Frozen).
☐ P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
☒ (754) Aromatic & Halogenated Purgeables
☐ (765) Mass Spectrometer Purgeables
☐ (766) Trihalomethanes
☐ (774) SDWA VOC's I (8 Regulated +)
☐ (775) SDWA VOC's II (EDB & DBCP)
Other Specific Compounds or Classes _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
☐ (755) Base/Neutral Extractables
☐ (758) Herbicides, Chlorophenoxy acid
☐ (759) Herbicides, Triazines
☐ (760) Organochlorine Pesticides
☐ (761) Organophosphate Pesticides
☐ (767) Polychlorinated Biphenyls (PCB's)
☐ (764) Polynuclear Aromatic Hydrocarbons
☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7; Conductivity= 625 umho/cm at 26 °C; Chlorine Residual= _____ mg/l
Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ / _____
Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

R.T. Townsend Trailer Park - South well - slight to
moderate hydrocarbon odor

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities. (signature collector): [Signature] Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____
at (location) _____ on _____ / _____ / _____ - _____ and that
the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ OR Seals Intact: Yes ☐ No ☐
Signatures _____

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE

Albuquerque, NM 87106 [505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

July 25, 1989

ANALYTICAL REPORT
SLD Accession No. OR-89-0911Distribution☐ Submitter☒ SLD Files

To: NM Oil Consv. Div.
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: A purgeable water sample submitted to this laboratory on June 27, 1989

User:

OIL CONSERVATION DIV
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

DEMOGRAPHIC DATA

COLLECTION	LOCATION
On: 22-Jun-89 By: Boy...	
At: 8:40 hrs. In/Near: Hobbs	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
Aromatic Purgeables (6)	0.00	N	1.00	ppb
Halogenated Purgeables (33)	0.00	N	0.50	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____

Laboratory Remarks: KT Townsend Trailer Park

Five unidentified unsaturated compounds at trace to 5ppb were detected.

Analyst: Michael J. Owen
Michael J. Owen
Analyst, Organic Chemistry

7-12-89
Analysis
Date

Reviewed By: Richard F. Meyerhein
Richard F. Meyerhein 07/25/89
Supervisor, Organic Chemistry Section

RECEIVED

JUL 31 1989

OIL CONSERVATION DIV.
SANTA FE



New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

857
WNN

GENERAL WATER CHEMISTRY
and NITROGEN ANALYSIS

DATE RECEIVED <u>06/27/89</u>	LAB NO. <u>WC 2376</u>	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235
Collection DATE <u>06/22</u>	SITE INFORMATION	Sample location <u>K.T. Townsend Trailer Park</u>
Collection TIME <u>0840</u>		Collection site description <u>South well (of pair by storage shed)</u>
Collected by — Person/Agency <u>Boyer/Anderson/OCD</u>		

SEND
FINAL
REPORT
TO

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/
well code 195-38E-15.43
Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped	☐ Pump ☒ Tap	Water level <u>-</u>	Discharge <u>-</u>	Sample type <u>Gravel</u>
pH (00400) <u>7</u>	Conductivity (Uncorrected) <u>625</u> μ mho	Water Temp. (00010) <u>20</u> °C	Conductivity at 25°C (00094) <u> </u> μ mho	
Field comments <u>Slight to moderate H/C odor</u>				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted <u>1</u>	☒ NF: Whole sample (Non-filtered)	☐ F: Filtered in field with 0.45 μ m membrane filter	☐ A: 2 ml H ₂ SO ₄ /L added
☒ NA: No acid added		☐ Other-specify: <u> </u>	☐ A: 5ml conc. HNO ₃ added ☐ A: 4ml fuming HNO ₃ added

ANALYTICAL RESULTS from SAMPLES

NA	Units	Date analyzed	From <u>NE</u> , NA Sample:	Date Analyzed
☒ Conductivity (Corrected) 25°C (00095)	<u>878</u> μ mho	<u>7-6</u>	☒ Calcium <u>50</u> mg/l	<u>8/04</u>
☐ Total non-filterable residue (suspended) (00530)	<u> </u> mg/l	<u> </u>	☒ Potassium <u>3</u> mg/l	<u>7/10</u>
☒ Other: <u>Lebptd</u>	<u>7.98</u>	<u>7/10</u>	☒ Magnesium <u>36.4</u> mg/l	<u>8/04</u>
☐ Other: <u> </u>	<u> </u>	<u> </u>	☒ Sodium <u>49</u> mg/l	<u>7/10</u>
☐ Other: <u> </u>	<u> </u>	<u> </u>	☒ Bicarbonate <u>316</u> mg/l	<u>7/10</u>
A-H₂SO₄			☒ Chloride <u>66</u> mg/l	<u>7/10</u>
☐ Nitrate-N +, Nitrate-N total (00630)	<u> </u> mg/l	<u> </u>	☒ Sulfate <u>40.2</u> mg/l	<u>7/26</u>
☐ Ammonia-N total (00610)	<u> </u> mg/l	<u> </u>	☒ Total Solids <u>458</u> mg/l	<u>7/19</u>
☐ Total Kjeldahl-N ()	<u> </u> mg/l	<u> </u>	☒ CO ₃ <u>0</u>	<u>7/10</u>
☐ Chemical oxygen demand (00340)	<u> </u> mg/l	<u> </u>	☒ B ₅ <u><0.20</u>	<u>7/11</u>
☐ Total organic carbon ()	<u> </u> mg/l	<u> </u>	☒ Cation/Anion Balance <u> </u>	<u> </u>
☐ Other: <u> </u>	<u> </u>	<u> </u>	Analyst <u> </u>	Date Reported <u>8/7/89</u>
☐ Other: <u> </u>	<u> </u>	<u> </u>	Reviewed by <u>Clea</u>	
Laboratory remarks <u> </u>				

FOR OCD USE -- Date Owner Notified Phone or Letter? Initials

CATIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	2.50	50.00	<3.0
Mg	2.99	36.40	<0.3
Na	2.13	49.00	<10.0
K	0.08	3.00	<0.3

Mn 0.00 0.00
Fe 0.00 0.00

SUMS 7.69 138.40

Total Dissolved Solids= 458
Ion Balance = 97.65%

ANIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
HC03	5.18	316.00	<1.0
SO4	0.84	40.20	<10.0
CL	1.86	66.00	<5.0

NO3 0.00 0.00 < 0.
C03 0.00 0.00 < 1.
NH3 0.00 0.00 < 0.
PO4 0.00 0.00 < 0.

7.88 422.20

WC No. = 8902376
Date out/By Chen 2/7/99



HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received 06/27/89 Lab No ICAP 368 User Code ☒ 82235 ☐ Other: _____

COLLECTION DATE & TIME: yy mm dd hh mm
07 06 22 08 40

COLLECTION SITE DESCRIPTION

R. T. Townsend Tractor

COLLECTED BY: Boyer/Anderson Oct

Part - South well

TO:

OWNER: _____

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

SITE LOCATION:

County: Lea

ATTN: S. Boyer
TELEPHONE: 827-5812

Township, Range, Section, Tract: (10N06E24342)

11915+318E+115+4131

STATION/ WELL CODE: _____

LATITUDE, LONGITUDE: _____

SAMPLING CONDITIONS:

☐ Bailed	☐ Pump	Water Level: _____	Discharge: _____	Sample Type: <u>Gravel</u>
☐ Dipped	☒ Tap			
pH(00400) <u>7</u>	Conductivity(Uncorr.) <u>625</u> μ mho	Water Temp.(00010) <u>20</u> °C	Conductivity at 25°C (00094) _____ μ mho	

FIELD COMMENTS: _____

SAMPLE FIELD TREATMENT

Check proper boxes:

☒ WPN: Water Preserved w/HNO ₃ Non-Filtered	☐ WPF: Water Preserved w/HNO ₃ Filtered
--	---

LAB ANALYSIS REQUESTED:

☒ ICAP Scan
Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	0.2		Silicon	23.	
Barium	<0.1		Silver	<0.1	☐
Beryllium	<0.1		Strontium	0.7	
Boron	0.2		Tin	<0.1	
Cadmium	<0.1	☒ <0.001	Vanadium	<0.1	
Calcium	90.		Zinc	<0.1	
Chromium	<0.1	☒ 0.006	Arsenic		☒ 0.010
Cobalt	<0.05		Selenium		☐
Copper	<0.1		Mercury		☐
Iron	0.3				☐
Lead	<0.1	☒ <0.005			☐
Magnesium	15.				☐
Manganese	0.09				☐
Molybdenum	<0.1				☐
Nickel	<0.1				☐

RECEIVED

OCT 10 1989

OIL CONSERVATION DIV.
SANTA FE

LAB COMMENTS: _____

DIGESTED, _____

For OCD Use:

Date Owner Notified: _____

Phone or Letter? _____

Initials: _____

ICAP Analyst JAA

Reviewer J. Rahby

Date Analyzed 7/31/89

Date Received 10/2/89



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **905012**
June 16, 1999

NMOCD
2040 S. PACHECO
SANTA FE, NM 87505

Project Name KRESS JONES WELL
Project Number (none)

Attention: BILL OLSON

On 5/6/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 150.1 and 8021 were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

Silicon was analyzed by ATEL, Marion, OH.

All other parameters were performed by ESL (OR) Inc., Portland, OR.

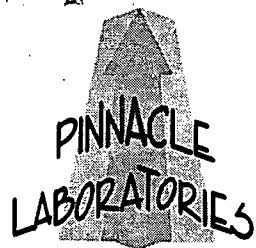
If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

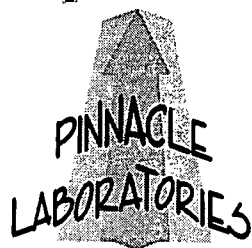
MR: mt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
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CLIENT	: NMOCD	PINNACLE ID	: 905012
PROJECT #	: (none)	DATE RECEIVED	: 5/6/99
PROJECT NAME	: KRESS JONES WELL	REPORT DATE	: 6/16/99
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9905050840 (JONES WELL)	AQUEOUS	5/5/99
02	TRIP BLANK	AQUEOUS	4/23/99



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GENERAL CHEMISTRY RESULTS

CLIENT : NMOCD PINNACLE I.D. : 905012
PROJECT # : (none) DATE RECEIVED : 5/6/99
PROJECT NAME : KRESS JONES WELL

SAMPLE			DATE	DATE
ID. #	CLIENT I.D.	MATRIX	SAMPLED	ANALYZED
01	9905050840 (JONES WELL)	AQUEOUS	5/5/99	5/5/99

PARAMETER	UNITS	9905050840 (JONES WELL)
PH (150.1)	UNITS	7.57

CHEMIST NOTES:
N/A



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GENERAL CHEMISTRY - QUALITY CONTROL

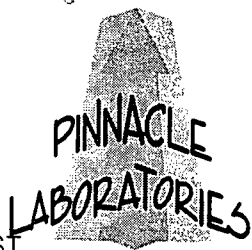
CLIENT : NMOCD PINNACLE I.D. : 905012
PROJECT # : (none) SAMPLE MATRIX : AQUEOUS
PROJECT NAME : KRESS JONES WELL

PARAMETER	UNITS	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	905012-01	7.57	7.61	0.53

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021
CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : KRESS JONES WELL

PINNACLE I.D.: 905012

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	9905050840 (JONES WELL)	AQUEOUS	5/5/99	NA	5/6/99	1
02	TRIP BLANK	AQUEOUS	4/23/99	NA	5/6/99	1

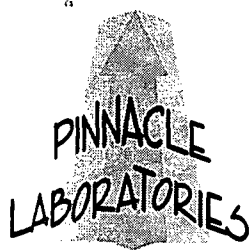
PARAMETER	DET. LIMIT	UNITS	9905050840	
			(JONES WELL)	TRIP BLANK
BENZENE	0.5	UG/L	< 0.5	< 0.5
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		97	100
SURROGATE LIMITS	(73 - 117)		
TRIFLUOROTOLUENE (%)		104	106
SURROGATE LIMITS	(69 - 117)		

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021	PINNACLE I.D.	: 905012
BLANK I.D.	: 050699	DATE EXTRACTED	: NA
CLIENT	: NMOCD	DATE ANALYZED	: 5/6/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: KRESS JONES WELL		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
BROMODICHLOROMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLBENZENE	UG/L	<0.5
METHYL -t-BUTYL ETHER	UG/L	<2.5
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		94
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		104
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:

N/A



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021
MSMSD # : 905012-01
CLIENT : NMOCD
PROJECT # : (none)
PROJECT NAME : KRESS JONES WELL

PINNACLE I.D. : 905012
DATE EXTRACTED : NA
DATE ANALYZED : 5/6/99
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	10.2	102	9.8	98	4	(82 - 128)	20
TOLUENE	<0.5	10.0	10.3	103	10.0	100	3	(87 - 128)	20
1,1-DICHLOROETHENE	<0.2	10.0	8.7	87	8.9	89	2	(80 - 120)	20
TRICHLOROETHENE	<0.3	10.0	10.2	102	9.8	98	4	(89 - 127)	20
CHLOROBENZENE	<0.5	10.0	9.6	96	9.6	96	0	(87 - 124)	20

CHEMIST NOTES:
N/A

(Spike Sample Result - Sample Result)
% Recovery = ----- X 100
Spike Concentration

(Sample Result - Duplicate Result)
RPD (Relative Percent Difference) = ----- X 100
Average Result

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: 12523

Report Date: 19-May-99

Pinnacle Laboratories, Inc.

2709 - D Pan American Freeway, NE

Albuquerque, NM 87107-

Phone: (505) 344-3777 Ext:

FAX: (505) 344-4413

Attn: Kimberly Mcneill

Our Lab #: MAR99-10990

Your Sample ID: 905012-01

Date Logged-In: 5/10/99

Sample Source: Other/Undefined

Matrix: Water

Client Project #:

PO#:

Project #:

Date Submitted to Lab: 5/7/99

- COLLECTION INFORMATION -

Date/Time/By: 5/5/99 8:51 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
SI-MS	200.8	Silicon, Si	17.1	MG/L	5/17/99	KRG	14878

End of Report

Report Approved By:


Deborah K. Johnson

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(505) 344-3777 Fax (505) 344-4413

Page: 1 of 1

ANALYSIS REQUEST

Network Project Manager: Kimberly D. McNeill Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, New Mexico 87107 (505) 344-3777 Fax (505) 344-4413					ANALYSIS REQUEST
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	
905012-01	5/5	0851	AQ	10990	Metals (8) RCRA
					RCRA TCLP METALS
					Metals-13 PP List
					Metals-TAL
					X Silican
					TOX
					TOC
					Gen Chemistry
					Oil and Grease
					Volatile Organics GC/MS (8260)
					BOD
					COD
					PESTICIDES/PCB (608/8080)
					8270 BY GC/MS
					PNA (8310)
					8240 (TCLP 1311) ZHE
					Herbicides (615/8150)
					Base/Neutral Acid Compounds GC/MS (625/8270)
					URANIUM
					RADIUM 226+228
					Gross Alpha/Beta
					TO-14
					NUMBER OF CONTAINERS

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	905012	Total Number of Containers		PENSACOLA - STL-FL		Signature:	Time:	Signature:	Time:
PROJ. NAME:	MMOCD	Chain of Custody Seals		PORTLAND - ESL-OR		<i>Therese Jume</i>	1700		
QC LEVEL:	STD IV	Received Intact?		STL - CT		Printed Name:	Date:	Printed Name:	Date:
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		STL - NEW JERSEY		<i>Therese Jume</i>	5/6/99		
TAT:	STANDARD RUSH!!	LAB NUMBER:		N CREEK		Pinnacle Laboratories, Inc.		Company	
				BARRINGER		RECEIVED BY:	1.	RECEIVED BY:	2
DUE DATE:	5/20	COMMENTS:		SEQUOIA		Signature:	Time:	Signature:	Time:
RUSH SURCHARGE:	—			<i>Atel-Munin</i>	X			<i>Atel-Munin</i>	1500
CLIENT DISCOUNT:	—					Printed Name:	Date:	Printed Name:	Date:
SPECIAL CERTIFICATION								<i>Atel-Munin</i>	5/7/99
REQUIRED: YES (NO)						Company		Company	

Environmental Services Laboratory, Inc.

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 670-8520

June 10, 1999

Kim McNeill
Pinnacle Laboratories
2709-D Pan American Fwy NE

Albuquerque, NM 87107

TEL: 505-344-3777

FAX (505) 344-4413

RE: 905012/NMOCD/Kress Jones Well

Order No.: 9905030

Dear Kim McNeill,

Environmental Services Laboratory received 1 sample on 05/07/99 for the analyses presented in the following report.

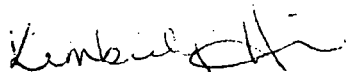
The Samples were analyzed for the following tests:

Alkalinity (Alkalinity)
CHLORIDE (Chloride)
CONDUCTANCE (E120.1)
Fluoride (fluoride)
ICP Metals (ICPMET)
MERCURY (Mercury)
Sulfate (Sulfate)
TOTAL DISSOLVED SOLIDS (E160.1)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety, without the written approval from the Laboratory.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Kimberly Hill
Project Manager
New Line



Technical Review

ANALYTICAL SERVICES FOR THE ENVIRONMENT

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories
Lab Order: 9905030
Project: 905012/NMOCD/Kress Jones Well
Lab ID: 9905030-01A

Client Sample ID: 905012-01
Tag Number:
Collection Date: 05/05/99
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ALKALINITY		EPA 310.0				Analyst: kfl
Alkalinity, Bicarbonate (As CaCO ₃)	170	5		mg/L CaCO ₃	1	05/11/99
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	05/11/99
Alkalinity, Total (As CaCO ₃)	170	5		mg/L CaCO ₃	1	05/11/99
CHLORIDE		EPA 325.3				Analyst: kfl
Chloride	130	5		mg/L	10	05/17/99
CONDUCTANCE		EPA 120.1				Analyst: sld
Specific Conductance	490	1		µmhos/cm	1	05/10/99
FLUORIDE		EPA 340.2				Analyst: sld
Fluoride	0.67	0.2		mg/L	1	05/11/99
SULFATE		EPA 375.4				Analyst: sld
Sulfate	39	12		mg/L	2.5	05/12/99
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: sld
Total Dissolved Solids (Residue, Filterable)	410	10		mg/L	1	05/11/99
MERCURY		SW 7470 / EPA 245.				Analyst: btn
Mercury	ND	0.0002		mg/L	1	05/14/99
ICP METALS		SW 6010 / EPA 200.				Analyst: btn
Sodium	53	4		mg/L	20	05/25/99

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories
Lab Order: 9905030
Project: 905012/NMOCD/Kress Jones Well
Lab ID: 9905030-01A

Client Sample ID: 905012-01
Tag Number:
Collection Date: 05/05/99
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		SW 6010 / EPA 200.				Analyst: meb
Aluminum	ND	0.05		mg/L	1	05/21/99
Antimony	ND	0.005		mg/L	1	05/21/99
Arsenic	0.0067	0.005		mg/L	1	05/21/99
Barium	0.081	0.005		mg/L	1	05/21/99
Beryllium	ND	0.002		mg/L	1	05/21/99
Boron	0.079	0.01		mg/L	1	05/21/99
Cadmium	ND	0.002		mg/L	1	05/21/99
Calcium	74	0.05		mg/L	1	05/21/99
Chromium	ND	0.005		mg/L	1	05/21/99
Cobalt	ND	0.005		mg/L	1	05/21/99
Copper	ND	0.005		mg/L	1	05/21/99
Iron	0.027	0.01		mg/L	1	05/21/99
Lead	ND	0.005		mg/L	1	05/21/99
Magnesium	12	0.05		mg/L	1	05/21/99
Manganese	ND	0.005		mg/L	1	05/21/99
Molybdenum	ND	0.005		mg/L	1	05/21/99
Nickel	ND	0.005		mg/L	1	05/21/99
Potassium	2.6	0.2		mg/L	1	05/21/99
Selenium	ND	0.005		mg/L	1	05/21/99
Silver	ND	0.005		mg/L	1	05/21/99
Thallium	ND	0.01		mg/L	1	05/21/99
Vanadium	0.029	0.005		mg/L	1	05/21/99
Zinc	0.0096	0.005		mg/L	1	05/21/99

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank Batch ID: 01 ALK A-6/1/ Test Code: Alkalinity Units: mg/L CaCO3 Analysis Date 04/19/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990419A SeqNo: 9643

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3) ND 5
Alkalinity, Carbonate (As CaCO3) ND 5
Alkalinity, Total (As CaCO3) ND 5

Sample ID: MBlank Batch ID: 01 ALK A-6/1/ Test Code: Alkalinity Units: mg/L CaCO3 Analysis Date 05/25/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990525A SeqNo: 9907

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3) ND 5
Alkalinity, Carbonate (As CaCO3) ND 5
Alkalinity, Total (As CaCO3) ND 5

Sample ID: MBlank Batch ID: 01 ALK A-6/1/ Test Code: Alkalinity Units: mg/L CaCO3 Analysis Date 05/03/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990503B SeqNo: 11150

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3) ND 5
Alkalinity, Carbonate (As CaCO3) ND 5
Alkalinity, Total (As CaCO3) ND 5

Sample ID: MBlank Batch ID: 01 ALK A-6/1/ Test Code: Alkalinity Units: mg/L CaCO3 Analysis Date 05/10/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990510C SeqNo: 11173

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3) ND 5
Alkalinity, Carbonate (As CaCO3) ND 5
Alkalinity, Total (As CaCO3) ND 5

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of 8

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: 01 ALK A-6/1/9	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 05/11/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990511C	SeqNo: 11182		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Bicarbonate (As CaCO3)	ND		5		
Alkalinity, Carbonate (As CaCO3)	ND		5		
Alkalinity, Total (As CaCO3)	ND		5		
Sample ID: MBlank	Batch ID: 01 ALK A-6/1/9	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 05/14/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990514B	SeqNo: 11226		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Bicarbonate (As CaCO3)	ND		5		
Alkalinity, Carbonate (As CaCO3)	ND		5		
Alkalinity, Total (As CaCO3)	ND		5		
Sample ID: MBlank	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/26/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990526A	SeqNo: 9937		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	ND		0.5		
Sample ID: MBlank	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/07/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990507B	SeqNo: 11086		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	ND		0.5		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCDD/Kress Jones Well

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/17/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990517C			SeqNo: 11134	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	ND		0.5		
Sample ID: MBlank	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 04/21/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990421A			SeqNo: 10312	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	ND		1		
Sample ID: MBlank	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/10/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990510A			SeqNo: 10347	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	ND		1		
Sample ID: MBlank	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/20/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990520A			SeqNo: 10364	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	ND		1		
Sample ID: MBlank	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/25/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990525E			SeqNo: 10384	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	ND		1		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
I - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Method Blank

Sample ID: MBlank	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date: 04/28/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990428A			SeqNo: 10089	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Fluoride	ND	0.2			
Sample ID: MBlank	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date: 05/11/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990511A			SeqNo: 10160	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Fluoride	ND	0.2			
Sample ID: MBlank	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date: 05/19/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990519A			SeqNo: 10252	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Fluoride	ND	0.2			
Sample ID: MBlank	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date: 05/21/99	Prep Date:
Client ID: 9905030	Run ID: HIT MAN_990521B			SeqNo: 9661	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Sulfate	ND	5			
Sample ID: MBlank	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date: 05/27/99	Prep Date:
Client ID: 9905030	Run ID: HIT MAN_990527A			SeqNo: 9765	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Sulfate	ND	5			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Method Blank

Sample ID: MBlank	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 04/29/99	Prep Date:
Client ID: 9905030	Run ID: HIT MAN_990429A		SeqNo: 10621		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	ND		5		
Sample ID: MBlank	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/12/99	Prep Date:
Client ID: 9905030	Run ID: HIT MAN_990512B		SeqNo: 10869		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	ND		5		
Sample ID: MBlank	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/20/99	Prep Date:
Client ID: 9905030	Run ID: HIT MAN_990520A		SeqNo: 10997		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	ND		5		
Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/25/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990525C		SeqNo: 10233		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	ND		10		
Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/26/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990526C		SeqNo: 10284		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	ND		10		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Method Blank

Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 04/28/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990428C		SeqNo: 11254		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Total Dissolved Solids (Residue, Filtera) ND 10					
Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/05/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990505B		SeqNo: 11272		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Total Dissolved Solids (Residue, Filtera) ND 10					
Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/11/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990511D		SeqNo: 11287		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Total Dissolved Solids (Residue, Filtera) ND 10					
Sample ID: MBlank	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/18/99	Prep Date:
Client ID: 9905030	Run ID: NO INST_990518B		SeqNo: 11307		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
Total Dissolved Solids (Residue, Filtera) ND 10					

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Method Blank

Sample ID: MB-447 Batch ID: 447 Test Code: Mercury Units: mg/L Analysis Date: 05/14/99 Prep Date: 05/13/99

Client ID: 9905030 Run ID: MERC_990514A SeqNo: 13303

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0002									
Mercury, 200 Series	ND	0.0002									
Mercury, 200 Series Diss	ND	0.0002									
Mercury, Diss	ND	0.0002									
Mercury, TCLP	ND	0.0002									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT Method Blank

Sample ID: MB-449 **Batch ID:** 449 **Test Code:** ICPMET **Units:** mg/L **Analysis Date:** 05/21/99 **Prep Date:** 05/13/99
Client ID: 9905030 **Run ID:** ICP_990520A **SeqNo:** 11376
Analyte **Result** **PQL** **SPK value** **SPK Ref Val** **%REC** **LowLimit** **HighLimit** **RPD Ref Val** **%RPD** **RPDLimit** **Qual**

Aluminum	ND	0.05										
Antimony	ND	0.005										
Arsenic, 200.7	ND	0.005										
Barium	ND	0.005										
Beryllium	ND	0.002										
Boron	ND	0.01										
Cadmium, 200.7	ND	0.002										
Calcium	ND	0.05										
Chromium, 200.7	ND	0.005										
Cobalt	ND	0.005										
Copper, 200.7	ND	0.005										
Hardness	ND	0.33										
Iron	ND	0.01										
Lead, 200.7	ND	0.005										
Magnesium	ND	0.05										
Manganese	ND	0.005										
Molybdenum	ND	0.005										
Nickel, 200.7	ND	0.005										
Potassium	ND	0.2										
Selenium	ND	0.005										
Silver	ND	0.005										
Sodium	ND	0.2										
Thallium	ND	0.01										
Vanadium	ND	0.005										
Zinc, 200.7	ND	0.005										

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9904055-08A DUP		Batch ID: 01 ALK A-6/1/		Test Code: Alkalinity		Units: mg/L CaCO3		Analysis Date 04/19/99		Prep Date:	
Client ID: 9905030		Run ID: NO INST_990419A		SeqNo: 9656							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	150	5	0	0	0.0%	0	0	150	0.0%	20	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	20	
Alkalinity, Total (As CaCO3)	150	5	0	0	0.0%	0	0	150	0.0%	20	

Sample ID: 9904114-04A DUP		Batch ID: 01 ALK A-6/1/		Test Code: Alkalinity		Units: mg/L CaCO3		Analysis Date 05/03/99		Prep Date:	
Client ID: 9905030		Run ID: NO INST_990503B		SeqNo: 11153							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	100	5	0	0	0.0%	0	0	95	5.1%	20	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	20	
Alkalinity, Total (As CaCO3)	100	5	0	0	0.0%	0	0	95	5.1%	20	

Sample ID: 9905011-03A DUP		Batch ID: 01 ALK A-6/1/		Test Code: Alkalinity		Units: mg/L CaCO3		Analysis Date 05/10/99		Prep Date:	
Client ID: 9905030		Run ID: NO INST_990510C		SeqNo: 11179							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	200	5	0	0	0.0%	0	0	210	4.9%	20	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	20	
Alkalinity, Total (As CaCO3)	200	5	0	0	0.0%	0	0	210	4.9%	20	

Sample ID: 9905029-01A DUP		Batch ID: 01 ALK A-6/1/		Test Code: Alkalinity		Units: mg/L CaCO3		Analysis Date 05/11/99		Prep Date:	
Client ID:		9905030		Run ID:		NO INST_990511C		SeqNo: 11187			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	170	5	0	0	0.0%	0	0	170	0.0%	20	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	20	
Alkalinity, Total (As CaCO3)	170	5	0	0	0.0%	0	0	170	0.0%	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Sample Duplicate

Sample ID: 9904166-02A DUP Batch ID: 01 CL A-6/1/9 Test Code: Chloride Units: mg/L Analysis Date 05/07/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990507B SeqNo: 11112

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	32	5	0	0	0.0%	0	0	35	9.0%	20	

Sample ID: 9905030-01A DUP Batch ID: 01 CL A-6/1/9 Test Code: Chloride Units: mg/L Analysis Date 05/17/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990517C SeqNo: 11137

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	140	5	0	0	0.0%	0	0	130	7.4%	20	

Sample ID: 9905097-02A DUP Batch ID: 01 CL A-6/1/9 Test Code: Chloride Units: mg/L Analysis Date 05/26/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990526A SeqNo: 9944

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride, Diss	5	0.5	0	0	0.0%	0	0	5.25	4.9%	20	

Sample ID: 9905133-05A DUP Batch ID: 01 CL A-6/1/9 Test Code: Chloride Units: mg/L Analysis Date 05/26/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990526A SeqNo: 9959

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride, Diss	17.5	5	0	0	0.0%	0	0	17.5	0.0%	20	

Sample ID: 9904085-01A DUP Batch ID: 01 COND-06/ Test Code: E120.1 Units: µmhos/cm Analysis Date 04/21/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990421A SeqNo: 10315

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	2280	1	0	0	0.0%	0	0	2340	2.6%	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOC/D/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9904145-01A DUP		Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/10/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990510A			SeqNo: 10350	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Specific Conductance	512	1	0	0	0.0% 0 517 1.0%	20
Sample ID: 9905047-01A DUP		Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/20/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990520A			SeqNo: 10370	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Specific Conductance	170	1	0	0	0.0% 0 171 0.6%	20
Sample ID: 9905101-01A DUP		Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 05/25/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990525E			SeqNo: 10395	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Specific Conductance	860	1	0	0	0.0% 0 830 3.6%	20
Sample ID: 9904093-02A DUP		Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 04/28/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990428A			SeqNo: 10101	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Fluoride	.32	0.2	0	0	0.0% 0 0.35 9.0%	20
Sample ID: 9904140-04A DUP		Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 04/28/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990428A			SeqNo: 10096	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Fluoride	.24	0.2	0	0	0.0% 0 0.25 4.1%	20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9905026-01A DUP		Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 05/11/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990511A			SeqNo: 10167	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	ND	0.2	0	0	0.0%	0 0 0 0.0% 20
Sample ID: 9905053-02A DUP		Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 05/19/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990519A			SeqNo: 10255	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	.96	0.2	0	0	0.0%	0 0 0 0.0% 20
Sample ID: 9904111-01A DUP		Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 04/29/99	Prep Date:
Client ID: 9905030		Run ID: HIT MAN_990429A			SeqNo: 10624	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	59.02	12	0	0	0.0%	80 120 56.18 4.9% 20
Sample ID: 9904157-03A DUP		Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 04/29/99	Prep Date:
Client ID: 9905030		Run ID: HIT MAN_990429A			SeqNo: 10662	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	233.1	62	0	0	0.0%	80 120 203.9 13.4% 20
Sulfate, Diss	ND	62	0	0	0.0%	80 120 0 0.0% 20
Sample ID: 9904166-01A DUP		Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/12/99	Prep Date:
Client ID: 9905030		Run ID: HIT MAN_990512B			SeqNo: 10872	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	126.9	62	0	0	0.0%	80 120 130.2 2.6% 20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOC/D/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9905045-01A DUP Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/20/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990520A SeqNo: 11008

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	134.4	25	0	0	0.0%	80	120	121	10.5%	20	

Sample ID: 9905078-01A DUP Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/21/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990521B SeqNo: 9668

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	574.8	120	0	0	0.0%	80	120	494	15.1%	20	

Sample ID: 9905097-02A DUP Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/27/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990527A SeqNo: 9769

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Diss	13	5	0	0	0.0%	80	120	13	0.0%	20	

Sample ID: 9904140-04A DUP Batch ID: 01 TDS-6/1/99 Test Code: E160.1 Units: mg/L Analysis Date 04/28/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990428C SeqNo: 11267

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	510	10	0	0	0.0%	0	0	480	6.1%	20	

Sample ID: 9905011-03A DUP Batch ID: 01 TDS-6/1/99 Test Code: E160.1 Units: mg/L Analysis Date 05/05/99 Prep Date:

Client ID: 9905030 Run ID: NO INST_990505B SeqNo: 11286

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	470	10	0	0	0.0%	0	0	470	0.0%	20	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9905026-01A DUP		Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/11/99	Prep Date:
Client ID:		9905030	Run ID: NO INST_990511D		SeqNo: 11290	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	430	10	0	0	0.0% 0 420	2.4% 20
Sample ID: 9905053-01A DUP		Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/18/99	Prep Date:
Client ID:		9905030	Run ID: NO INST_990518B		SeqNo: 11310	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	440	10	0	0	0.0% 0 420	4.7% 20
Sample ID: 9905098-01A DUP		Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/25/99	Prep Date:
Client ID:		9905030	Run ID: NO INST_990525C		SeqNo: 10238	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	15	10	0	0	0.0% 0 34	77.6% 20 R,T
Sample ID: 9905133-03A DUP		Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 05/26/99	Prep Date:
Client ID:		9905030	Run ID: NO INST_990526C		SeqNo: 10287	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	110	10	0	0	0.0% 0 130	16.7% 20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCOD/Kress Jones Well

QC SUMMARY REPORT
Sample Duplicate

Sample ID: 9905035-01A DUP		Batch ID: 447	Test Code: Mercury		Units: mg/L	Analysis Date 05/14/99		Prep Date: 05/13/99	
Client ID:		9905030	Run ID: 990514A			SeqNo: 13305			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Mercury	ND	0.0002	0	0	0.0%	0	0	0	20
Mercury, 200 Series	ND	0.0002	0	0	0.0%	0	0	0	20
Mercury, 200 Series Diss	ND	0.0002	0	0	0.0%	0	0	0	20
Mercury, Diss	ND	0.0002	0	0	0.0%	0	0	0	20
Mercury, TCLP	ND	0.0002	0	0	0.0%	0	0	0	20

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCOD/Kress Jones Well

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 9905026-01B DUP			Batch ID: 449		Test Code: ICPMET		Units: mg/L		Analysis Date 05/21/99			Prep Date: 05/13/99	
Client ID:		9905030	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte													
Aluminum		ND	0.05	0	0	0	0.0%	0	0	0	0.0%	20	
Antimony		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Arsenic, 200.7		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Barium		.1034	0.005	0	0	0	0.0%	0	0	0.1037	0.3%	20	
Beryllium		ND	0.002	0	0	0	0.0%	0	0	0	0.0%	20	
Boron		.1068	0.01	0	0	0	0.0%	0	0	0.1071	0.3%	20	
Cadmium, 200.7		ND	0.002	0	0	0	0.0%	0	0	0	0.0%	20	
Calcium		77.61	0.05	0	0	0	0.0%	0	0	77.94	0.4%	20	
Chromium, 200.7		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Cobalt		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Copper, 200.7		.00668	0.005	0	0	0	0.0%	0	0	0.006827	2.2%	20	
Hardness		252.5	0.33	0	0	0	0.0%	0	0	253.5	0.4%	20	
Iron		.02216	0.01	0	0	0	0.0%	0	0	0.02331	5.1%	20	
Lead, 200.7		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Magnesium		14.26	0.05	0	0	0	0.0%	0	0	14.3	0.3%	20	
Manganese		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Molybdenum		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Nickel, 200.7		.01049	0.005	0	0	0	0.0%	0	0	0.01029	1.9%	20	
Potassium		9.197	0.2	0	0	0	0.0%	0	0	9.156	0.4%	20	
Selenium		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Silver		ND	0.005	0	0	0	0.0%	0	0	0	0.0%	20	
Sodium		22.48	0.2	0	0	0	0.0%	0	0	22.53	0.2%	20	
Thallium		ND	0.01	0	0	0	0.0%	0	0	0	0.0%	20	
Vanadium		.006524	0.005	0	0	0	0.0%	0	0	0.006696	2.6%	20	
Zinc, 200.7		ND	0.005	0	0	0	0.0%	0	0	0.006567	0.0%	20	

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9904166-01A MS		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/07/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990507B			SeqNo: 11109	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	82	5	50	40	84.0%	75 125 0
Sample ID: 9904166-01A MSD		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/07/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990507B			SeqNo: 11110	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	85	5	50	40	90.0%	75 125 82 3.6% 20
Sample ID: 9904166-02A MS		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/07/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990507B			SeqNo: 11113	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	90	5	50	35	110.0%	75 125 0
Sample ID: 9904166-02A MSD		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/07/99	Prep Date:
Client ID: 9905030		Run ID: NO INST_990507B			SeqNo: 11114	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	80	5	50	35	90.0%	75 125 90 11.8% 20
Sample ID: 9905030-01A MS		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/17/99	Prep Date:
Client ID: 905012-01		Run ID: NO INST_990517C			SeqNo: 11138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	240	5	100	130	110.0%	75 125 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

Sample ID: 9905030-01A MSD		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/17/99	Prep Date:				
Client ID: 905012-01		9905030	Run ID: NO INST_990517C		SeqNo: 11139					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride	230	5	100	130	100.0%	75	125	240	4.3%	20
Sample ID: 9905097-02A MS		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/26/99	Prep Date:				
Client ID:		9905030	Run ID: NO INST_990526A		SeqNo: 9945					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride, Diss	16	0.5	10	5.25	107.5%	75	125	0		
Sample ID: 9905097-02A MSD		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/26/99	Prep Date:				
Client ID:		9905030	Run ID: NO INST_990526A		SeqNo: 9946					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride, Diss	15	0.5	10	5.25	97.5%	75	125	16	6.5%	20
Sample ID: 9905133-05A MS		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/26/99	Prep Date:				
Client ID:		9905030	Run ID: NO INST_990526A		SeqNo: 9960					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride, Diss	122.5	5	100	17.5	105.0%	75	125	0		
Sample ID: 9905133-05A MSD		Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 05/26/99	Prep Date:				
Client ID:		9905030	Run ID: NO INST_990526A		SeqNo: 9961					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Chloride, Diss	117.5	5	100	17.5	100.0%	75	125	122.5	4.2%	20
Qualifiers:		ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits		B - Analyte detected in the associated Method Blank					
		J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits							

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 9904093-02A MS Batch ID: 01 FL A-06/0 Test Code: fluoride Units: mg/L Analysis Date 04/28/99 Prep Date:
 Client ID: 9905030 Run ID: NO INST_990428A SeqNo: 10102

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	6.5	0.2	6	0.35	102.5%	75	125	0			

Sample ID: 9904093-02A MSD Batch ID: 01 FL A-06/0 Test Code: fluoride Units: mg/L Analysis Date 04/28/99 Prep Date:
 Client ID: 9905030 Run ID: NO INST_990428A SeqNo: 10103

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	6.3	0.2	6	0.35	99.2%	75	125	6.5	3.1%	20	

Sample ID: 9904140-04A MS Batch ID: 01 FL A-06/0 Test Code: fluoride Units: mg/L Analysis Date 04/28/99 Prep Date:
 Client ID: 9905030 Run ID: NO INST_990428A SeqNo: 10097

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	5.9	0.2	6	0.25	94.2%	75	125	0			

Sample ID: 9904140-04A MSD Batch ID: 01 FL A-06/0 Test Code: fluoride Units: mg/L Analysis Date 04/28/99 Prep Date:
 Client ID: 9905030 Run ID: NO INST_990428A SeqNo: 10098

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	6.1	0.2	6	0.25	97.5%	75	125	5.9	3.3%	20	

Sample ID: 9905026-01A MS Batch ID: 01 FL A-06/0 Test Code: fluoride Units: mg/L Analysis Date 05/11/99 Prep Date:
 Client ID: 9905030 Run ID: NO INST_990511A SeqNo: 10168

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	6.5	0.2	7	0	92.9%	75	125	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: Pinnacle Laboratories
 Work Order: 9905030
 Project: 905012/NMOCD/Kress Jones Well

Sample ID: 9905026-01A MSD	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date	05/11/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990511A		SeqNo:	10169	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	6.6	0.2	7	0	94.3%	75 125 6.5 1.5% 20

Sample ID: 9905053-02A MS	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date	05/19/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990519A		SeqNo:	10256	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	9.3	0.2	8	0.96	104.3%	75 125 0

Sample ID: 9905053-02A MSD	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date	05/19/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990519A		SeqNo:	10257	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	9.3	0.2	8	0.96	104.3%	75 125 9.3 0.0% 20

Sample ID: 9904111-01A MS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date	04/29/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990429A		SeqNo:	10625	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	96.15	25	50	56.18	80.0%	75 125 0

Sample ID: 9904111-01A MSD	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date	04/29/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990429A		SeqNo:	10626	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	96.15	25	50	56.18	80.0%	75 125 96.15 0.0% 20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 9904157-03A MS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 04/29/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990429A		SeqNo: 10663	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 9904157-03A MSD	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 04/29/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990429A		SeqNo: 10664	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 9904166-01A MS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/12/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990512B		SeqNo: 10873	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 1064 500 500 800 130.2 116.7% 75 125 0

Sample ID: 9904166-01A MSD	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/12/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990512B		SeqNo: 10874	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 1063 500 500 800 130.2 116.6% 75 125 0.1% 20

Sample ID: 9905045-01A MS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 05/20/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990520A		SeqNo: 11010	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 98.85 42 42 66 121 -33.6% 75 125 0 S,H

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID: 9905045-01A MSD Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/20/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990520A SeqNo: 11012

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 99.02 42 66 121 -33.3% 75 125 98.85 0.2% 20 S,H

Sample ID: 9905078-01A MS Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/21/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990521B SeqNo: 9669

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 839.8 120 300 494 115.3% 75 125 0

Sample ID: 9905078-01A MSD Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/21/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990521B SeqNo: 9670

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate 803 120 300 494 103.0% 75 125 839.8 4.5% 20

Sample ID: 9905097-02A MS Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/27/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990527A SeqNo: 9770

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate, Diss 20.2 5 8 13 90.0% 75 125 0

Sample ID: 9905097-02A MSD Batch ID: 01 SULFATE Test Code: Sulfate Units: mg/L Analysis Date 05/27/99 Prep Date:

Client ID: 9905030 Run ID: HIT MAN_990527A SeqNo: 9771

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate, Diss 20.3 5 8 13 91.3% 75 125 20.2 0.5% 20

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 9905035-01A MS		Batch ID: 447	Test Code: Mercury		Units: mg/L	Analysis Date 05/14/99		Prep Date: 05/13/99	
Client ID:		9905030	Run ID: MERC_990514A			SeqNo: 13307			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Mercury	.00181	0.0002	0.002	0	90.5%	75	125	0	
Mercury, 200 Series	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, 200 Series Diss	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, Diss	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, TCLP	ND	0.0002	0.002	0	0.0%	75	125	0	S

Sample ID: 9905035-01A MSD		Batch ID: 447	Test Code: Mercury		Units: mg/L	Analysis Date 05/14/99		Prep Date: 05/13/99	
Client ID:		9905030	Run ID: MERC_990514A			SeqNo: 13308			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Mercury	.00173	0.0002	0.002	0	86.5%	75	125	0.00181	20
Mercury, 200 Series	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, 200 Series Diss	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, Diss	ND	0.0002	0.002	0	0.0%	75	125	0	S
Mercury, TCLP	ND	0.0002	0.002	0	0.0%	75	125	0	S

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9905026-01B MS		Batch ID: 449	Test Code: ICPMET		Units: mg/L	Analysis Date 05/21/99		Prep Date: 05/13/99	
Client ID: 9905030			Run ID: ICP_990520A			SeqNo: 11337			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPD Limit
Aluminum	4.862	0.05	5	0	97.2%	80	120	0	
Antimony	.5369	0.005	0.5	0	107.4%	80	120	0	
Arsenic, 200.7	.5151	0.005	0.5	0	103.0%	90	110	0	
Barium	.571	0.005	0.5	0.1037	93.5%	80	120	0	
Beryllium	.5262	0.002	0.5	0	105.2%	80	120	0	
Boron	.5873	0.01	0.5	0.1071	96.0%	80	120	0	
Cadmium, 200.7	.4864	0.002	0.5	0	97.3%	90	110	0	
Calcium	83.52	0.05	5	77.94	111.7%	80	120	0	
Chromium, 200.7	.4965	0.005	0.5	0	99.3%	90	110	0	
Cobalt	.4669	0.005	0.5	0	93.4%	80	120	0	
Copper, 200.7	.4941	0.005	0.5	0.006827	97.5%	90	110	0	
Hardness	288.2	0.33	33.1	253.5	104.7%	80	120	0	
Iron	5.04	0.01	5	0.02331	100.3%	80	120	0	
Lead, 200.7	.4952	0.005	0.5	0	99.0%	90	110	0	
Magnesium	19.34	0.05	5	14.3	100.7%	80	120	0	
Manganese	.5122	0.005	0.5	0	102.4%	80	120	0	
Molybdenum	.4994	0.005	0.5	0	99.9%	80	120	0	
Nickel, 200.7	.591	0.005	0.6	0.01029	96.8%	90	110	0	
Potassium	14.52	0.2	5	9.156	107.2%	80	120	0	
Selenium	.4972	0.005	0.5	0	99.4%	80	120	0	
Silver	.5137	0.005	0.5	0	102.7%	80	120	0	
Sodium	26.74	0.2	5	22.53	84.2%	80	120	0	
Thallium	.5129	0.01	0.5	0	102.6%	80	120	0	
Vanadium	.5098	0.005	0.5	0.006696	100.6%	80	120	0	
Zinc, 200.7	.4897	0.005	0.5	0.006567	96.6%	90	110	0	

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID: 9905026-01B MSD			Batch ID: 449		Test Code: ICPMET		Units: mg/L		Analysis Date 05/21/99		Prep Date: 05/13/99			
Client ID:		9905030	Run ID:	ICP_990520A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
Aluminum	4.841		0.05	5	0			96.8%	80	120	4.862	0.4%	20	
Antimony	.5329		0.005	0.5	0			106.6%	80	120	0.5369	0.7%	20	
Arsenic, 200.7	.5108		0.005	0.5	0			102.2%	90	110	0.5151	0.8%	20	
Barium	.5696		0.005	0.5	0.1037			93.2%	80	120	0.571	0.2%	20	
Beryllium	.5232		0.002	0.5	0			104.6%	80	120	0.5262	0.6%	20	
Boron	.5865		0.01	0.5	0.1071			95.9%	80	120	0.5873	0.1%	20	
Cadmium, 200.7	.4828		0.002	0.5	0			96.6%	90	110	0.4864	0.7%	20	
Calcium	83.3		0.05	5	77.94			107.2%	80	120	83.52	0.3%	20	
Chromium, 200.7	.4934		0.005	0.5	0			98.7%	90	110	0.4965	0.6%	20	
Cobalt	.4645		0.005	0.5	0			92.9%	80	120	0.4669	0.5%	20	
Copper, 200.7	.4938		0.005	0.5	0.006827			97.4%	90	110	0.4941	0.1%	20	
Hardness	287.3		0.33	33.1	253.5			102.2%	80	120	288.2	0.3%	20	
Iron	5.002		0.01	5	0.02331			99.6%	80	120	5.04	0.7%	20	
Lead, 200.7	.4918		0.005	0.5	0			98.4%	90	110	0.4952	0.7%	20	
Magnesium	19.27		0.05	5	14.3			99.4%	80	120	19.34	0.3%	20	
Manganese	.5095		0.005	0.5	0			101.9%	80	120	0.5122	0.5%	20	
Molybdenum	.4978		0.005	0.5	0			99.6%	80	120	0.4994	0.3%	20	
Nickel, 200.7	.5872		0.005	0.6	0.01029			96.1%	90	110	0.591	0.6%	20	
Potassium	14.63		0.2	5	9.156			109.4%	80	120	14.52	0.7%	20	
Selenium	.4941		0.005	0.5	0			98.8%	80	120	0.4972	0.6%	20	
Silver	.5122		0.005	0.5	0			102.4%	80	120	0.5137	0.3%	20	
Sodium	26.74		0.2	5	22.53			84.2%	80	120	26.74	0.0%	20	
Thallium	.5113		0.01	0.5	0			102.3%	80	120	0.5129	0.3%	20	
Vanadium	.5078		0.005	0.5	0.006696			100.2%	80	120	0.5098	0.4%	20	
Zinc, 200.7	.4846		0.005	0.5	0.006567			95.6%	90	110	0.4897	1.0%	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Environmental Services Laboratory

Date: 11-Jun-99

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Pinnacle Laboratories
 Work Order: 9905030
 Project: 905012/NMOCD/Kress Jones Well

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 4/19/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990419A		SeqNo: 9644	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	130	5	126	0	103.2% 85 115 0

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 5/25/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990525A		SeqNo: 9908	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	123	5	126	0	97.6% 85 115 0

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 5/3/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990503B		SeqNo: 11151	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	120	5	126	0	95.2% 85 115 0

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 5/10/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990510C		SeqNo: 11174	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	135	5	126	0	107.1% 85 115 0

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 5/11/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990511C		SeqNo: 11183	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	135	5	126	0	107.1% 85 115 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 ALK A-6/1/	Test Code: Alkalinity	Units: mg/L CaCO3	Analysis Date 5/14/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990514B		SeqNo: 11227	
Analyte	Result	PQL	SPK value	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	130	5	126	0 103.2%	85 115 0
Sample ID: LCS	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 5/26/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990526A		SeqNo: 9938	
Analyte	Result	PQL	SPK value	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	10	0.5	10	0 100.0%	85 115 0
Sample ID: LCS	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 5/7/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990507B		SeqNo: 11087	
Analyte	Result	PQL	SPK value	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	9.5	0.5	10	0 95.0%	85 115 0
Sample ID: LCS	Batch ID: 01 CL A-6/1/9	Test Code: Chloride	Units: mg/L	Analysis Date 5/17/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990517C		SeqNo: 11135	
Analyte	Result	PQL	SPK value	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	10.3	0.5	10	0 103.0%	85 115 0
Sample ID: LCS	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 4/21/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990421A		SeqNo: 10313	
Analyte	Result	PQL	SPK value	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories

Work Order: 9905030

Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 5/10/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990510A		SeqNo: 10348	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: LCS	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 5/20/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990520A		SeqNo: 10366	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: LCS	Batch ID: 01 COND-06/	Test Code: E120.1	Units: µmhos/cm	Analysis Date 5/25/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990525E		SeqNo: 10385	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Specific Conductance 972 1 1000 0 97.2% 85 115 0

Sample ID: LCS	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 4/28/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990428A		SeqNo: 10090	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride 7.8 0.2 7 0 111.4% 85 115 0

Sample ID: LCS	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 4/28/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990428A		SeqNo: 10091	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride 7.6 0.2 7 0 108.6% 85 115 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCDD/Kress Jones Well

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 5/11/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990511A		SeqNo: 10161	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	6.1	0.2	6	0	101.7% 85 115 0
Sample ID: LCS	Batch ID: 01 FL A-06/0	Test Code: fluoride	Units: mg/L	Analysis Date 5/19/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990519A		SeqNo: 10253	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	5.8	0.2	6	0	96.7% 85 115 0
Sample ID: LCS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 5/21/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990521B		SeqNo: 9662	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	12	5	12	0	100.0% 85 115 0
Sample ID: LCS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 5/27/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990527A		SeqNo: 9766	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	7.816	5	8	0	97.7% 85 115 0
Sample ID: LCS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 4/29/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990429A		SeqNo: 10622	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	10	5	10	0	100.0% 85 115 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 5/12/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990512B		SeqNo: 10870	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	7.43	5	8	0	92.9% 85 115 0

Sample ID: LCS	Batch ID: 01 SULFATE	Test Code: Sulfate	Units: mg/L	Analysis Date 5/20/99	Prep Date:
Client ID:	9905030	Run ID: HIT MAN_990520A		SeqNo: 10999	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	7.03	5	8	0	87.9% 85 115 0

Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 5/25/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990525C		SeqNo: 10234	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3674	10	3966	0	92.6% 85 115 0

Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 5/26/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990526C		SeqNo: 10285	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	4080	10	3966	0	102.9% 85 115 0

Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 4/28/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990428C		SeqNo: 11255	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3550	10	3966	0	89.5% 85 115 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 5/5/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990505B		SeqNo: 11273	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3490	10	3966	0	85 115 0
Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 5/11/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990511D		SeqNo: 11288	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3630	10	3966	0	91.5% 85 115 0
Sample ID: LCS	Batch ID: 01 TDS-6/1/99	Test Code: E160.1	Units: mg/L	Analysis Date 5/18/99	Prep Date:
Client ID:	9905030	Run ID: NO INST_990518B		SeqNo: 11308	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	3610	10	3966	0	85 115 0
Sample ID: LCS-447	Batch ID: 447	Test Code: Mercury	Units: mg/L	Analysis Date 5/14/99	Prep Date: 5/13/99
Client ID:	9905030	Run ID: MERC_990514A		SeqNo: 13304	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.00089	0.0002	0.001	0	89.0% 80 120 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID: LCS-449	Batch ID: 449	Test Code: ICPMET	Units: mg/L	Analysis Date 5/21/99	Prep Date: 5/13/99						
Client ID:	9905030	Run ID: ICP_990520A		SeqNo: 11374							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	4.783	0.05	5	0	95.7%	80	120	0			
Antimony	.5232	0.005	0.5	0	104.6%	80	120	0			
Arsenic, 200.7	.4992	0.005	0.5	0	99.8%	90	110	0			
Barium	.461	0.005	0.5	0	92.2%	80	120	0			
Beryllium	.5184	0.002	0.5	0	103.7%	80	120	0			
Boron	.4619	0.01	0.5	0	92.4%	80	120	0			
Cadmium, 200.7	.488	0.002	0.5	0	97.6%	90	110	0			
Calcium	5.051	0.05	5	0	101.0%	80	120	0			
Chromium, 200.7	.4939	0.005	0.5	0	98.8%	90	110	0			
Cobalt	.4684	0.005	0.5	0	93.7%	80	120	0			
Copper, 200.7	.4767	0.005	0.5	0	95.3%	90	110	0			
Hardness	32.72	0.33	33.1	0	98.8%	80	120	0			
Iron	5.046	0.01	5	0	100.9%	80	120	0			
Lead, 200.7	.5006	0.005	0.5	0	100.1%	90	110	0			
Magnesium	4.883	0.05	5	0	97.7%	80	120	0			
Manganese	.5072	0.005	0.5	0	101.4%	80	120	0			
Molybdenum	.4922	0.005	0.5	0	98.4%	80	120	0			
Nickel, 200.7	.5899	0.005	0.6	0	98.3%	90	110	0			
Potassium	5.091	0.2	5	0	101.8%	80	120	0			
Selenium	.4898	0.005	0.5	0	98.0%	80	120	0			
Silver	.5043	0.005	0.5	0	100.9%	80	120	0			
Sodium	4.732	0.2	5	0	94.6%	80	120	0			
Thallium	.5132	0.01	0.5	0	102.6%	80	120	0			
Vanadium	.4941	0.005	0.5	0	98.8%	80	120	0			
Zinc, 200.7	.4868	0.005	0.5	0	97.4%	90	110	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCOD/Kress Jones Well

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: ICV	Batch ID: 447	Test Code: Mercury	Units: mg/L	Analysis Date 05/14/99	Prep Date: 05/13/99
Client ID: 9905030	MERC_990514A	Run ID: 13317	SeqNo:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	.00201	0.0002	0.002	0	100.5% 90 110 0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

Environmental Services Laboratory

Date: 10-Jun-99

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NNMOCD/Kress Jones Well

QC SUMMARY REPORT

Initial Calibration Verification Standard

Sample ID: CCVLOW		Batch ID: 449		Test Code: ICPMET		Units: mg/L		Analysis Date 05/21/99		Prep Date:			
Client ID:	9905030	Run ID:	ICP_990520A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Antimony	.5171	0.005	0.5	0	0	103.4%	90	110	0				
Arsenic, 200.7	.5037	0.005	0.5	0	0	100.7%	95	105	0				
Barium	.4894	0.005	0.5	0	0	97.9%	90	110	0				
Beryllium	.4972	0.002	0.5	0	0	99.4%	90	110	0				
Boron	.5006	0.01	0.5	0	0	100.1%	90	110	0				
Cadmium, 200.7	.4965	0.002	0.5	0	0	99.3%	95	105	0				
Chromium, 200.7	.5057	0.005	0.5	0	0	101.1%	95	105	0				
Cobalt	.4785	0.005	0.5	0	0	95.7%	90	110	0				
Copper, 200.7	.504	0.005	0.5	0	0	100.8%	95	105	0				
Iron	.5081	0.01	0.5	0	0	101.6%	90	110	0				
Lead, 200.7	.4994	0.005	0.5	0	0	99.9%	95	105	0				
Manganese	.4911	0.005	0.5	0	0	98.2%	90	110	0				
Molybdenum	.495	0.005	0.5	0	0	99.0%	90	110	0				
Nickel, 200.7	.4886	0.005	0.5	0	0	97.7%	95	105	0				
Potassium	4.965	0.2	5	0	0	99.3%	90	110	0				
Selenium	.4966	0.005	0.5	0	0	99.3%	90	110	0				
Silver	.4974	0.005	0.5	0	0	99.5%	90	110	0				
Thallium	.518	0.01	0.5	0	0	103.6%	90	110	0				
Vanadium	.5004	0.005	0.5	0	0	100.1%	90	110	0				
Zinc, 200.7	.4925	0.005	0.5	0	0	98.5%	95	105	0				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9905030
Project: 905012/NMOCD/Kress Jones Well

QC SUMMARY REPORT
 Minerals ICV for ICP

Sample ID: ICVHI	Batch ID: 449	Test Code: ICPMET	Units: mg/L	Analysis Date 05/21/99	Prep Date:
Client ID:	9905030	Run ID: ICP_990520A		SeqNo: 11373	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	23.82	0.05	25	0	95.3% 90 110 0
Calcium	24.38	0.05	25	0	97.5% 90 110 0
Hardness	158.5	0.33	165	0	96.1% 90 110 0
Magnesium	23.71	0.05	25	0	94.9% 90 110 0
Sodium	4.794	0.2	5	0	95.9% 90 110 0

Sample ID: ICVHI	Batch ID: 449	Test Code: ICPMET	Units: mg/L	Analysis Date 05/25/99	Prep Date:
Client ID:	9905030	Run ID: ICP_990525B		SeqNo: 12068	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Aluminum	23.91	0.05			
Sodium	4.771	0.2			

Sample ID: ICVLOW	Batch ID: 449	Test Code: ICPMET	Units: mg/L	Analysis Date 05/25/99	Prep Date:
Client ID:	9905030	Run ID: ICP_990525B		SeqNo: 12069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	.5149	0.005			
Iron	.5338	0.01			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Glossary of Flags

Qualifier Description

- A Please see case narrative for information pertaining to this analyte.
- AA The sample was analyzed when the holding time for the analysis had expired.
- AB The Relative Percent Difference (RPD) between the duplicate and its associated sample was greater than 20%. A triplicate analysis was not possible due to lack of sample.
- AC Due to limited volume of sample it was not possible to analyze the standard method quality control.
- AD The hydrocarbon pattern in this sample is not typical of gasoline.
- AE The hydrocarbon pattern in this sample is not typical of diesel.
- AF The hydrocarbon pattern in this sample is not typical of oil.
- AG The hydrocarbons in this sample extend into the gasoline range.
- AH The hydrocarbons in this sample extend into the oil range.
- AI The hydrocarbons in this sample extend into the diesel range.
- I Analyte detected in associated Method Blank.
- J The Laboratory Control Sample (LCS) exceeded control limits. The Matrix Spike (MS) was in control validating the batch.
- U The Laboratory Control Sample (LCS) exceeded control limits. See case narrative for explanation.
- E Value above quantitation range. This value is considered an estimate.
- F The Laboratory Control Standard (LCS) and the LCS Duplicate (LCS D) exceeded Relative Percent Difference (RPD) control limits. See case narrative for explanation.
- G The Matrix Spike (MS) exceeded control limits. An instrument spike was analyzed and was in control. This indicates an interference affecting the sample preparation process.
- H The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) exceeded recovery control limits. An instrument spike was analyzed and was in control. This indicates an interference affecting the sample preparation process.
- I The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) exceeded Relative Percent Difference (RPD) control limits. See case narrative for explanation.
- K Analyte detected between the method detection limit (MDL) and the reporting limit. This value is considered an estimate.
- K The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) exceeded recovery control limits. See case narrative for explanation.
- M The Matrix Spike (MS) Exceeded control limits. The Laboratory Control Sample was in control validating the batch.
- N The Matrix Spike (MSD) and Matrix Spike Duplicate (MSD) recoveries is not calculable due to a high amount of analyte in the sample.
- O Detection Limits were elevated due to matrix interference.
- P The Relative Percent Difference (RPD) between the duplicate and its associated sample was greater than 20%. A triplicate was analyzed. The results of all three analysis indicate a non-homogeneous sample.
- Q The Relative Percent Difference (RPD) between the duplicate and its associated sample was greater than 20%. It was concluded through visual inspection that the sample was non-homogeneous.
- R RPD outside accepted limits. See other qualifiers or case narrative for corrective action.
- S Spike recovery outside control limits. See other qualifiers or case narrative for corrective action.
- T The Relative Percent Difference (RPD) between the duplicate and its associated sample was greater than 20%. The analyte was less than three times the reporting limit. The RPD is not applicable.
- U The Relative Percent Difference (RPD) between the analysis column and the confirmation column was greater than 40%. The higher result was reported.
- V The Relative Percent Difference (RPD) between the analysis column and the confirmation column was greater than 40%. The lower result was reported due to obvious interference.
- W Surrogate recovery outside control limits. See case narrative.
- X Unable to quantitate surrogate recoveries due to dilution of sample.
- Y The sample was provided in an improper container.

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	405012	Total Number of Containers		PENSACOLA - STL-FL		Signature:	Time:	Signature:	Time:
PROJ. NAME:	NMOCD	Chain of Custody Seals		PORTLAND - ESL-OR	X	Signature:	Time:	Signature:	Time:
QC LEVEL:	STD IV	Received Intact?		STL - CT		Printed Name:	Date:	Printed Name:	Date:
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		STL - NEW JERSEY		Signature:	Time:	Signature:	Time:
TAT:	STANDARD RUSH!!	LAB NUMBER:		N. CREEK		Printed Name:	Date:	Printed Name:	Date:
				BARRINGER		Signature:	Time:	Signature:	Time:
				SEQUOIA		Printed Name:	Date:	Printed Name:	Date:
						Signature:	Time:	Signature:	Time:
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						Signature:	Time:	Signature:	Time:
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						Signature:			

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Bill Olson			
COMPANY: DCD			
ADDRESS: 2040 S. Pacheco			
PHONE: Santa Fe NM 87505			
FAX: 887-8177			
BILL TO: DCD Bill Olson			
COMPANY: - Same as Above -			
ADDRESS:			

SAMPLE ID	DATE	TIME	MATRIX	LAB ID.
9905050840 <Kress Jones>	05-05-99	0840	H ₂ O	01
9905050845 <Jones well>	05-05-99	0845	H ₂ O	01
9905050849 <Jones well>	05-05-99	0849	Water	
9905050851 <Jones well>	05-05-99	0851	Water	
9905050853 <Jones well>	05-05-99	0853	Water	
Tip Blank	423	445	11	02

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	
PROJ NO.:		(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK	(NORMAL) ☒
PROJ NAME:	Kress Jones well	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER	
P.O. NO.:		METHANOL PRESERVATION ☐	
SHIPPED VIA:		COMMENTS: FIXED FEE ☐	
SAMPLE RECEIPT			
NO. CONTAINERS	1		
CUSTODY SEALS	Y N/NA		
RECEIVED INTACT	YES		
BLUE TAGS	41		

RELINQUISHED BY:		RELINQUISHED BY:	
Signature:	Donna Williams	Signature:	Donna Williams
Printed Name:	Donna Williams	Printed Name:	Donna Williams
Date:	05-05-99	Date:	05-05-99
Company:	DCD	Company:	DCD
RECEIVED BY:	1.	RECEIVED BY:	2.
Signature:		Signature:	
Printed Name:		Printed Name:	
Date:		Date:	
Company:		Company:	

ANALYSIS REQUEST	
Petroleum Hydrocarbons (418.1) TRPH	
(MOD.8015) Diesel/Direct Inject	
(M8015) Gas/Purge & Trap	
8021 (BTEX)/8015 (Gasoline) MTBE	
8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	
8021 (TCL)	
8021 (EDX)	
8021 (HALO)	
8021 (CUST)	
504.1 EDB ☐ / DBCP ☐	
8260 (TCL) Volatile Organics	
8260 (Full) Volatile Organics	
8260 (CUST) Volatile Organics	
8260 (Landfill) Volatile Organics	
Pesticides /PCB (608/8081/8082)	
Herbicides (615/8151)	
Base/Neutral/Acid Compounds GC/MS (625/8270)	
Polynuclear Aromatics (610/8310/8270-SIMS)	
General Chemistry:	
PH	
Priority Pollutant Metals (13)	
Target Analyte List Metals (23)	
RCRA Metals (8)	
RCRA Metals by TCLP (Method 1311)	
Metals: ICAP-6010 + Add	
Hg + Se by AA	
NUMBER OF CONTAINERS	1



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

June 6, 1997

RECEIVED

JUN 12 1997

Environmental Bureau
Oil Conservation Division

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Mr. Kress Jones
3729 W. Sanger
Hobbs, NM 88240

Re: Water Well Sample Analytical Results.

Dear Mr. Jones:

Please find enclosed the analytical results from the sampling of your water well. Please note the New Mexico Oil Conservation Division (NMOCD) sampled your well in response to your concern that your well might have been impacted by crude oil from nearby oil & gas activities.

Please note we ran a common test called (BTEX) which would assist the NMOCD in determining if your well had been impacted by crude oil. Please note the analytical results came back as non-detect or negative. In addition, my field observations reflected that your water was clear, no odors, and the TDS (Total Dissolved Solids) were in line with most of the ground water found in this area.

Please note these results reflect the condition of your water at the point of your pump intake. This depth was not available to me at the time of the visit. As you know we were not able to sample the top of the water table due to the limited space between the well pipe and casing.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

Sincerely yours,

Wayne Price-Environmental Engineer

cc: Chris Williams-District I Supervisor
Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe
West Hobbs Pool groundwater contamination file.

attachments=yes

R ANDERSON

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

~ 1:30 PM

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
------------	----------------	----------	-------	---------------

Name WAYNE PRICE Date 3/26/57 Miles _____ District _____
Time of Departure 7 AM Time of Return 4 PM Car No. G

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Signature]

KRESS JONES
3729 W SANGER
HOBBS N.M.
393-0703

SAMPLED WATER WELL FOR HOUSE, PURGED x 5 MIN
WATER IS CLEAN, NO ODOR, TAKEN AT WELL SPIGOT
TDS ~ 627 UMHOS
SEE COC ATTACHED (BLEEX FOR LAB)

SAMPLED WATER WELL ON BACK LOT OWNED
BY MR. JONES UNIT B 31-18-38 CITGO WATER WEL
TDS ~ 1000 UMHOS, SLIGHT TURBID, NO ODOR
NOTE: SIGN ON WATER WELL "NOT FOR HUMAN CONSUMPTION"

Mileage	Per Diem	Hours
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

INSPECTION CLASSIFICATION

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- W = Water Contamination
- O = Other

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or The Reclamation Fund
- E = Indicates some form of enforcement action taken in the field (draw immediately below the letter U, R or O)

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. in operations
- S = SWD
- U = Underground Storage
- G = General Operation
- F = Facility or location
- M = Meeting
- O = Other

American Environmental Network (N.M.), Inc.

Albuquerque Office: 2709-D Pan American Fwy. NE
Albuquerque, NM 87107
(505) 344-3777

Remit To: American Environmental Network (N.M.), Inc.
P.O. Box 5676
Boston, MA 02206

American Environmental Network, Inc.

Bill To: N.M. Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
4/ 1/97	76211

Proj. Name: Jones Water Well

Original
BALANCE DUE: 40.00

PO Number	Terms	Project
	Net 30	AEN ALB-810

Quantity	Description	Rate	Amount
1	EPA Method 8020 (BTEX/MTBE)	40.00	40.00
TO: ROGER ANDERSON FOR NMCD APPROVAL APPROVED Wayne Price DISTRICT I NMCD			
Accession #:703385 Authorized by:Wayne Price		TOTAL:	40.00

A finance charge of 1½% will be charged on balances 30 days past due
DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting

American Environmental Network, Inc.

AEN I.D. 703385

April 1, 1997

JONES WATER WELL
3729 W SANGER
HOBBS, NM

Project Name Jones Water Well
Project Number (none)

Attention: WAYNE PRICE

On 3/28/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.



Kimberly D. McNeill
Project Manager



H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

American Environmental Network, Inc.

CLIENT	: JONES WATER WELL	AEN I.D.	: 703385
PROJECT #	: (none)	DATE RECEIVED	: 3/28/97
PROJECT NAME	: Jones Water Well	REPORT DATE	: 4/1/97
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9703260126	AQUEOUS	3/26/97
02	TRIP BLANK	AQUEOUS	3/20/97

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : JONES WATER WELL
PROJECT # : (none)
PROJECT NAME : Jones Water Well

AEN I.D.: 703385

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	9703260126	AQUEOUS	3/26/97	NA	3/31/97	1
02	TRIP BLANK	AQUEOUS	3/20/97	NA	3/31/97	1
PARAMETER		DET. LIMIT	UNITS	01	02	
BENZENE		0.5	UG/L	< 0.5	< 0.5	
TOLUENE		0.5	UG/L	< 0.5	< 0.5	
ETHYLBENZENE		0.5	UG/L	< 0.5	< 0.5	
TOTAL XYLENES		0.5	UG/L	< 0.5	< 0.5	
METHYL-t-BUTYL ETHER		2.5	UG/L	< 2.5	< 2.5	

SURROGATE:

BROMOFLUOROBENZENE (%)

102

95

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 703385
BLANK I. D.	: 033197	DATE EXTRACTED	: NA
CLIENT	: JONES WATER WELL	DATE ANALYZED	: 3/31/97
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: Jones Water Well		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5

SURROGATE:
BROMOFLUOROBENZENE (%) 103
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 703385
MSMSD #	: 703382-01	DATE EXTRACTED	: NA
CLIENT	: JONES WATER WELL	DATE ANALYZED	: 3/31/97
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: Jones Water Well	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	10.0	9.0	90	8.8	88	2	(80 - 120)	20
TOLUENE	<0.5	10.0	9.5	95	9.3	93	2	(80 - 120)	20
ETHYLBENZENE	<0.5	10.0	9.7	97	9.3	93	4	(80 - 120)	20
TOTAL XYLENES	<0.5	30.0	29.7	99	28.8	96	3	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	18.4	92	17.7	89	4	(70 - 133)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

CHAIN OF CUSTODY

AEV LAB I.D. # 703385

DATE 3/26/97 PAGE 1 OF 1

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: <u>DAVID PRICE</u>		COMPANY: <u>JOLES WATER WELL</u> ADDRESS: <u>X 3729 W 5th AVE</u> <u>HOBBS NM</u> PHONE: <u>505-393-0703</u> FAX: <u>505-393-0720</u> BILL TO: <u>KMOC - Santa Fe</u> COMPANY: <u>2040 McHeco</u> ADDRESS: <u>Santa Fe NM 87505</u>																																												
SAMPLE ID: <u>7103260126</u> <u>BLACK</u>	DATE: <u>3/26/97</u> <u>17:20</u>	TIME: <u>17:20</u> <u>AG</u>	MATRIX: <u>WATER</u> <u>-01</u>	LAB I.D.: <u>-02</u>																																										
<table border="1"> <tr> <td>Petroleum Hydrocarbons (418.1) TRPH</td> <td></td> </tr> <tr> <td>(MOD.8015) Diesel/Direct/Inject</td> <td></td> </tr> <tr> <td>(M8015) Gas/Purge & Trap</td> <td></td> </tr> <tr> <td>Gasoline/BTEX & MTBE (M8015/8020)</td> <td></td> </tr> <tr> <td>BTXE/MTBE (8020)</td> <td>X</td> </tr> <tr> <td>BTEX & Chlorinated Aromatics (602/8020)</td> <td></td> </tr> <tr> <td>BTEX/MTBE/EDC & EDB (8020/8010/Short)</td> <td></td> </tr> <tr> <td>Chlorinated Hydrocarbons (601/8010)</td> <td></td> </tr> <tr> <td>504 EDB / DBCP</td> <td></td> </tr> <tr> <td>Polynuclear Aromatics (610/8310)</td> <td></td> </tr> <tr> <td>Volatile Organics (624/8240) GC/MS</td> <td></td> </tr> <tr> <td>Volatile Organics (8260) GC/MS</td> <td></td> </tr> <tr> <td>Pesticides/PCB (608/8080)</td> <td></td> </tr> <tr> <td>Herbicides (615/8150)</td> <td></td> </tr> <tr> <td>Base/Neutral/Acid Compounds GC/MS (625/8270)</td> <td></td> </tr> <tr> <td>General Chemistry:</td> <td></td> </tr> <tr> <td>Priority Pollutant Metals (13)</td> <td></td> </tr> <tr> <td>Target Analyte List Metals (23)</td> <td></td> </tr> <tr> <td>RCRA Metals (8)</td> <td></td> </tr> <tr> <td>RCRA Metals by TCLP (Method 1311)</td> <td></td> </tr> <tr> <td>Metals:</td> <td></td> </tr> </table>					Petroleum Hydrocarbons (418.1) TRPH		(MOD.8015) Diesel/Direct/Inject		(M8015) Gas/Purge & Trap		Gasoline/BTEX & MTBE (M8015/8020)		BTXE/MTBE (8020)	X	BTEX & Chlorinated Aromatics (602/8020)		BTEX/MTBE/EDC & EDB (8020/8010/Short)		Chlorinated Hydrocarbons (601/8010)		504 EDB / DBCP		Polynuclear Aromatics (610/8310)		Volatile Organics (624/8240) GC/MS		Volatile Organics (8260) GC/MS		Pesticides/PCB (608/8080)		Herbicides (615/8150)		Base/Neutral/Acid Compounds GC/MS (625/8270)		General Chemistry:		Priority Pollutant Metals (13)		Target Analyte List Metals (23)		RCRA Metals (8)		RCRA Metals by TCLP (Method 1311)		Metals:	
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NUMBER OF CONTAINERS: <u>3</u>																																														
PROJECT INFORMATION																																														
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS																																														
PROJ. NO.: <u>7103260126</u> PROJ. NAME: <u>JOLES WATER WELL</u> P.O. NO.: SHIPPED VIA: SAMPLE RECEIPT: NO. CONTAINERS: <u>4</u> CUSTOMER LABELS: <u>① NIM</u> RECEIVED INTACT: <u>Y</u> BLUE ICE: <u>Y</u>	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK CERTIFICATION REQUIRED: ☐ NIM ☐ SDWA ☐ OTHER METHANOL PRESERVATION: ☐ <u>BLUE ICE - SAMPLE COOLING</u> COMMENTS: <u>FIXED FEE</u> <u>ON ICE</u>	(NORMAL) ☒	RELINQUISHED BY: Signature: <u>[Signature]</u> Time: <u>3:00 PM</u> Printed Name: <u>DAVID PRICE</u> Date: <u>3/26/97</u> Company: <u>KMOC</u>																																											
RECEIVED BY: Signature: <u>[Signature]</u> Time: <u>8:00 AM</u> Printed Name: <u>DAVID PRICE</u> Date: <u>3/27/97</u> Company: <u>KMOC</u>		RELINQUISHED BY: Signature: <u>[Signature]</u> Time: <u>8:00 AM</u> Printed Name: <u>DAVID PRICE</u> Date: <u>3/27/97</u> Company: <u>KMOC</u>																																												
RECEIVED BY (LAB): Signature: <u>[Signature]</u> Time: <u>10:35</u> Printed Name: <u>DAVID PRICE</u> Date: <u>3/29/95</u> Company: <u>American Environmental Network (NM), Inc.</u>																																														

CHAIN OF CUSTODY

AEN LAB I.D.

DATE: 3/26/97 PAGE: 1 OF 1

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: DAVID PRICE

COMPANY: JOLES WATER WELL

ADDRESS: X 3929 N SALT LAKE HEBBS NM

505-393-0703

PHONE: 505-393-6161

FAX: 505-393-0720

BILL TO: NMCCD - SALT LAKE

COMPANY:

ADDRESS: 2040 McHeco

SALT LAKE UT 89505

SAMPLE ID: 9703260126 DATE: 3/26/97 TIME: 2:26 PM MATRIX: WATER LAB ID: BLANK

Petroleum Hydrocarbons (418.1) TRPH
 (MOD.8015) Diesel/Direct/Inject

(M8015) Gas/Purge & Trap
 Gasoline/BTEX & MTBE (M8015/8020)
 BTEX/MTBE (8020)
 BTEX & Chlorinated Aromatics (602/8020)
 BTEX/MTBE/EDC & EDB (8020/8010/Short)
 Chlorinated Hydrocarbons (601/8010)

504 EDB ☐ / DBCP ☐
 Polynuclear Aromatics (610/8310)
 Volatile Organics (624/8240) GC/MS
 Volatile Organics (8260) GC/MS
 Pesticides/PCB (608/8080)
 Herbicides (615/8150)
 Base/Neutral/Acid Compounds GC/MS (625/8270)

General Chemistry:
 Priority Pollutant Metals (13)
 Target Analyte List Metals (23)
 RCRA Metals (8)
 RCRA Metals by TCLP (Method 1311)
 Metals:

NUMBER OF CONTAINERS: 3

ANALYSIS REQUEST

PROJECT INFORMATION

PROJ. NO.: 9703260126

PROJ. NAME: JOLES WATER WELL

P.O. NO.: 2040 McHeco

SHIPPED VIA: US MAIL

NO. CONTAINERS: 3

CUSTODY SEALS: Y/N/NA

RECEIVED INTACT: Y

BLUE ICE/ICE: Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) Y

CERTIFICATION REQUIRED: (NM) ☐ SDWA ☐ OTHER ☐

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

5 p.p.m.

5 p.p.m.

5 p.p.m.

5 p.p.m.

5 p.p.m.

5 p.p.m.

RELINQUISHED BY:

Signature: David Price Time: 3:00 PM

Printed Name: DAVID PRICE Date: 3/26/97

Company: NMCCD

RECEIVED BY: 1.

Signature: 1. Time: 1.

Printed Name: 1. Date: 1.

Company: 1.

RECEIVED BY: 2.

Signature: 2. Time: 2.

Printed Name: 2. Date: 2.

RELINQUISHED BY:

Signature: 2. Time: 2.

Printed Name: 2. Date: 2.

Company: 2.

RECEIVED BY: 2.

Signature: 2. Time: 2.

Printed Name: 2. Date: 2.

Company: 2.

RECEIVED BY: 2.

Signature: 2. Time: 2.

Printed Name: 2. Date: 2.



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

March 10, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 357 870 115

Ms. Betty Handy
1725 Gary Lane
Hobbs, NM 88240

Re: Water Well at 1725 Gary Lane

Dear Ms. Handy:

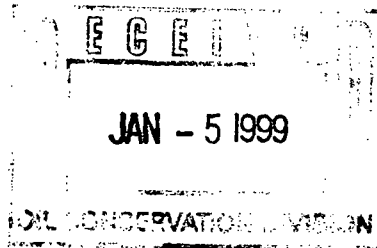
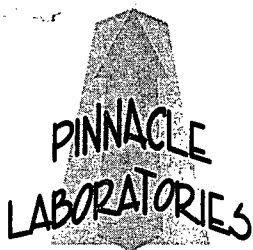
Please find enclosed the analytical results for your water well. The results of this sampling event did not reveal any water contaminants that exceeded the New Mexico Water Quality Control (WQCC) Commission Regulations Human Health Standards except for Iron which was slightly over the limit. At the time of sampling it was noted that the water was clear but had a hydrocarbon odor. The analytical results revealed trace amounts of Polynuclear Aromatic Hydrocarbons, a possible petroleum constituent, but at levels well below the health standard.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Environmental Bureau

cc: OCD Hobbs Office



(NE

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **812043**
December 30, 1998

NMOCD
2040 S. PACHECO
SANTA FE, NM 87505

Project Name WATER WELL
Project Number (none)

Attention: WAYNE PRICE

On 12/9/98 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA methods 150.1 and 8260 were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

EPA methods 8310 and 8270 were performed by Severn Trent (FL) Inc., Pensacola, FL.

All other parameters were performed by ESL (OR) Inc., Portland, OR.

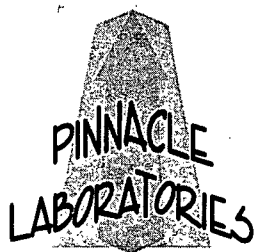
If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure



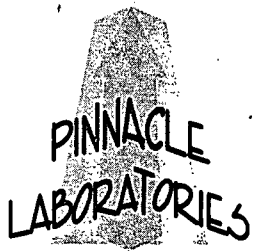
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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GENERAL CHEMISTRY RESULTS

CLIENT : NMOCD PINNACLE I.D. : 812043
PROJECT # : (none) DATE RECEIVED : 12/9/98
PROJECT NAME : WATER WELL

SAMPLE		DATE		DATE
ID. #	CLIENT I.D.	MATRIX	SAMPLED	ANALYZED
01	9812070957	AQUEOUS	12/7/98	12/10/98
PARAMETER			UNITS	9812070957
PH (150.1)			UNITS	7.18

CHEMIST NOTES:
N/A



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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : NMOCD PINNACLE I.D. : 812043
PROJECT # : (none) SAMPLE MATRIX : AQUEOUS
PROJECT NAME : WATER WELL

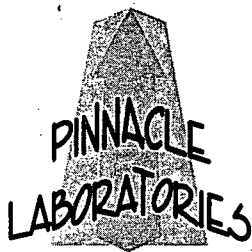
PARAMETER	UNITS	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	812043-01	7.18	7.24	1

CHEMIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



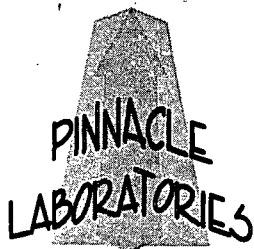
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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOCD PINNACLE I.D. : 812043
PROJECT # : N/A DATE RECEIVED : 12/9/98
PROJECT NAME : WATER WELL

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
812048-01	9812070957	AQUEOUS	12/7/98	N/A	12/15/98	1
PARAMETER	DET. LIMIT	UNITS				

Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
Acrolein	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
Acrylonitrile	5.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Methyl-t-butyl Ether	1.0	< 1.0	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Bromochloromethane	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
2,2-Dichloropropane	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
1,1-Dichloropropene	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
1,3-Dichloropropane	1.0	< 1.0	ug/L
Dibromomethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOC
PROJECT # : N/A
PROJECT NAME : WATER WELL

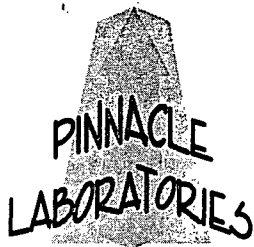
PINNACLE I.D. : 812043
DATE RECEIVED : 12/9/98

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
812048-01	9812070957	AQUEOUS	12/7/98	N/A	12/15/98	1

PARAMETER	DET. LIMIT	UNITS
1,1,1,2-Tetrachloroethane	1.0	< 1.0 ug/L
m&p Xylenes	1.0	< 1.0 ug/L
o-Xylene	1.0	< 1.0 ug/L
Styrene	1.0	< 1.0 ug/L
Bromoform	1.0	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0 ug/L
1,2,3-Trichloropropane	1.0	< 1.0 ug/L
Isopropyl Benzene	1.0	< 1.0 ug/L
Bromobenzene	1.0	< 1.0 ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1.0 ug/L
n-Propylbenzene	1.0	< 1.0 ug/L
2-Chlorotoluene	1.0	< 1.0 ug/L
4-Chlorotoluene	1.0	< 1.0 ug/L
1,3,5-Trimethylbenzene	1.0	< 1.0 ug/L
tert-Butylbenzene	1.0	< 1.0 ug/L
1,2,4-Trimethylbenzene	1.0	< 1.0 ug/L
sec-Butylbenzene	1.0	< 1.0 ug/L
1,3-Dichlorobenzene	1.0	< 1.0 ug/L
1,4-Dichlorobenzene	1.0	< 1.0 ug/L
p-Isopropyltoluene	1.0	< 1.0 ug/L
1,2-Dichlorobenzene	1.0	< 1.0 ug/L
n-Butylbenzene	1.0	< 1.0 ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1.0 ug/L
1,2,4-Trichlorobenzene	1.0	< 1.0 ug/L
Naphthalene	1.0	< 1.0 ug/L
Hexachlorobutadiene	1.0	< 1.0 ug/L
1,2,3-Trichlorobenzene	1.0	< 1.0 ug/L

SURROGATE % RECOVERY

1,2-Dichloroethane-d4	94 (80 - 120)
Toluene-d8	98 (88 - 110)
Bromofluorobenzene	93 (86 - 115)



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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

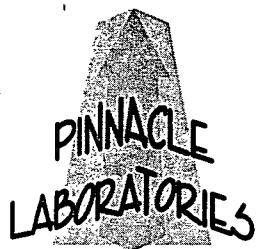
GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOCD
PROJECT # : N/A
PROJECT NAME : WATER WELL

PINNACLE I.D. : 812043
DATE RECEIVED : 12/9/98

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
812048-02	TRIP BLANK	AQUEOUS	12/4/98	N/A	12/15/98	1
PARAMETER	DET. LIMIT	UNITS				

Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
Acrolein	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
Acrylonitrile	5.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Methyl-t-butyl Ether	1.0	< 1.0	ug/L
1,1,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Bromochloromethane	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
2,2-Dichloropropane	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
1,1-Dichloropropene	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
1,3-Dichloropropane	1.0	< 1.0	ug/L
Dibromomethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOCD PINNACLE I.D. : 812043
PROJECT # : N/A DATE RECEIVED : 12/9/98
PROJECT NAME : WATER WELL

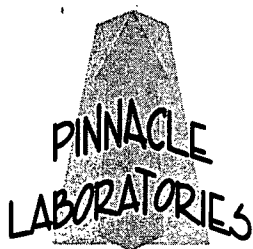
SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
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812048-02	TRIP BLANK	AQUEOUS	12/4/98	N/A	12/15/98	1
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PARAMETER	DET. LIMIT	UNITS
1,1,1,2-Tetrachloroethane	1.0	< 1.0 ug/L
m&p Xylenes	1.0	< 1.0 ug/L
o-Xylene	1.0	< 1.0 ug/L
Styrene	1.0	< 1.0 ug/L
Bromoform	1.0	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0 ug/L
1,2,3-Trichloropropane	1.0	< 1.0 ug/L
Isopropyl Benzene	1.0	< 1.0 ug/L
Bromobenzene	1.0	< 1.0 ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1.0 ug/L
n-Propylbenzene	1.0	< 1.0 ug/L
2-Chlorotoluene	1.0	< 1.0 ug/L
4-Chlorotoluene	1.0	< 1.0 ug/L
1,3,5-Trimethylbenzene	1.0	< 1.0 ug/L
tert-Butylbenzene	1.0	< 1.0 ug/L
1,2,4-Trimethylbenzene	1.0	< 1.0 ug/L
sec-Butylbenzene	1.0	< 1.0 ug/L
1,3-Dichlorobenzene	1.0	< 1.0 ug/L
1,4-Dichlorobenzene	1.0	< 1.0 ug/L
p-Isopropyltoluene	1.0	< 1.0 ug/L
1,2-Dichlorobenzene	1.0	< 1.0 ug/L
n-Butylbenzene	1.0	< 1.0 ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1.0 ug/L
1,2,4-Trichlorobenzene	1.0	< 1.0 ug/L
Naphthalene	1.0	< 1.0 ug/L
Hexachlorobutadiene	1.0	< 1.0 ug/L
1,2,3-Trichlorobenzene	1.0	< 1.0 ug/L

SURROGATE % RECOVERY

1,2-Dichloroethane-d4	100 (80 - 120)
Toluene-d8	102 (88 - 110)
Bromofluorobenzene	97 (86 - 115)



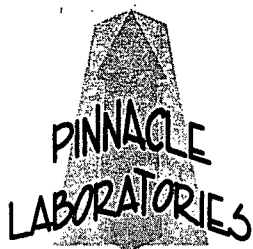
2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOCD PINNACLE I.D. : 812043
PROJECT # : N/A
PROJECT NAME : WATER WELL

SAMPLE		DATE		DIL.	
ID #	BATCH	MATRIX	EXTRACTED	ANALYZED	FACTOR
REAGENT BLANK	121598	AQUEOUS	N/A	12/15/98	1
PARAMETER	DET. LIMIT	UNITS			

Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
Acrolein	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
Acrylonitrile	5.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Methyl-t-butyl Ether	1.0	< 1.0	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Bromochloromethane	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
2,2-Dichloropropane	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
1,1-Dichloropropene	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
1,3-Dichloropropane	1.0	< 1.0	ug/L
Dibromomethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L



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GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
CLIENT : NMOCD
PROJECT # : N/A
PROJECT NAME : WATER WELL

PINNACLE I.D. : 812043

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
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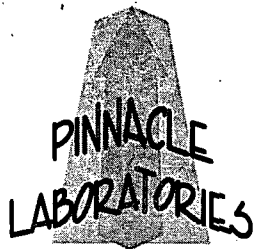
REAGENT BLANK	121598	AQUEOUS	N/A	12/15/98	1
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PARAMETER	DET. LIMIT	UNITS
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1,1,1,2-Tetrachloroethane	1.0	< 1.0 ug/L
m&p Xylenes	1.0	< 1.0 ug/L
o-Xylene	1.0	< 1.0 ug/L
Styrene	1.0	< 1.0 ug/L
Bromoform	1.0	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0 ug/L
1,2,3-Trichloropropane	1.0	< 1.0 ug/L
Isopropyl Benzene	1.0	< 1.0 ug/L
Bromobenzene	1.0	< 1.0 ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1.0 ug/L
n-Propylbenzene	1.0	< 1.0 ug/L
2-Chlorotoluene	1.0	< 1.0 ug/L
4-Chlorotoluene	1.0	< 1.0 ug/L
1,3,5-Trimethylbenzene	1.0	< 1.0 ug/L
tert-Butylbenzene	1.0	< 1.0 ug/L
1,2,4-Trimethylbenzene	1.0	< 1.0 ug/L
sec-Butylbenzene	1.0	< 1.0 ug/L
1,3-Dichlorobenzene	1.0	< 1.0 ug/L
1,4-Dichlorobenzene	1.0	< 1.0 ug/L
p-Isopropyltoluene	1.0	< 1.0 ug/L
1,2-Dichlorobenzene	1.0	< 1.0 ug/L
n-Butylbenzene	1.0	< 1.0 ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1.0 ug/L
1,2,4-Trichlorobenzene	1.0	< 1.0 ug/L
Naphthalene	1.0	< 1.0 ug/L
Hexachlorobutadiene	1.0	< 1.0 ug/L
1,2,3-Trichlorobenzene	1.0	< 1.0 ug/L

SURROGATE % RECOVERY

1,2-Dichloroethane-d4	98 (80 - 120)
Toluene-d8	103 (88 - 110)
Bromofluorobenzene	100 (86 - 115)



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
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MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8260
SPIKED SAMPLE : 812030-01
CLIENT : NMOCD
PROJECT # : N/A
PROJECT NAME : WATER WELL

PINNACLE I.D. : 812043
DATE ANALYZED : 12/15/98
UNITS : ug/L (PPB)

COMPOUND	SAMPLE CONC.	SPIKE ADDED	MS RESULT	MSD RESULT	MS %REC	MSD %REC	RPD	QC LIMITS RPD	QC LIMITS %RECOVERY
1,1-DICHLOROETHENE	<1.0	50.0	46.5	41.3	93	83	12	14	61-145
BENZENE	<1.0	50.0	51.8	51.5	104	103	1	11	76-127
TRICHLOROETHENE	<1.0	50.0	51.6	51.5	103	103	0	14	71-120
TOLUENE	<1.0	50.0	52.6	52.4	105	105	0	13	76-125
CHLOROBENZENE	<1.0	50.0	52.8	52.8	106	106	0	13	75-130



Severn Trent Laboratories

11 East Olive Road
Pensacola FL 32514

Tel: (850) 474-1001
Fax: (850) 474-4789

SIGNATURE PAGE

Reviewed by:

STL Project Manager

Client: PINNACLE LABORATORIES
ALBUQUERQUE, NEW MEXICO

Project Name: NMOCD
Project Number: 812043
Project Location: WATER WELL
Accession Number: 812170

Project Manager: KIMBERLY D. MCNEILL
Sampled By: N/S

Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468

- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981

a part of

Severn Trent Services Inc



SEVERN TRENT LABORATORIES, INC. – PENSACOLA, FLORIDA
STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

State of California, Department of Health Services, Laboratory ID No. I-2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. 81142 (Drinking Water), Laboratory ID No. E81010 (Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. 98-25 (Drinking Water)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OcH (No Laboratory ID No. assigned by state) (Drinking Water by Reciprocity with Florida)

New Hampshire DES, Laboratory ID No. 250598-A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewater)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment, Health, & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Hazardous Waste and Wastewater by Reciprocity with California)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Tennessee Division of Underground Storage Tanks Approved Laboratory

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 9133

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession:	812170
Client:	PINNACLE LABORATORIES
Project Number:	812043
Project Name:	NMOCD
Project Location:	WATER WELL
Department:	SEMI-VOLATILE FUELS

[0] Page 1
Date 21-Dec-98

"FINAL REPORT FORMAT - SINGLE"

Accession: 812170
Client: PINNACLE LABORATORIES
Project Number: 812043
Project Name: NMOCD
Project Location: WATER WELL
Test: POLYNUCLEAR AROMATICS BY 8310
Analysis Method: 8310/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 07-DEC-98 0957
Client Sample Id: 812043-01 Received Date: 10-DEC-98
Batch: PAW286 Extraction Date: 11-DEC-98
Blank: A Dry Weight %: N/A Analysis Date: 18-DEC-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	ND	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	ND	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	3	1	
2-METHYLNAPHTHALENE	UG/L	ND	1	
2-CHLOROANTHRACENE	%REC/SURR	77	28-138	
ANALYST	INITIALS	HAH		

Comments:

← Limit
30 PPB
J

[0] Page 2
Date 21-Dec-98

"Method Report Summary"

Accession Number: 812170
Client: PINNACLE LABORATORIES
Project Number: 812043
Project Name: NMOCD
Project Location: WATER WELL
Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
812043-01	1-METHYLNAPHTHALENE	UG/L	3

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: ACID & BASE EXTRACTABLES (8270C)

Accession:	812170
Client:	PINNACLE LABORATORIES
Project Number:	812043
Project Name:	NMOCD
Project Location:	WATER WELL
Department:	ORGANIC/MS

"FINAL REPORT FORMAT - SINGLE"

Accession: 812170
 Client: PINNACLE LABORATORIES
 Project Number: 812043
 Project Name: NMOCD
 Project Location: WATER WELL
 Test: ACID & BASE EXTRACTABLES (8270C)
 Analysis Method: 8270C/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
 Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
 Matrix: WATER
 QC Level: I

Lab Id: 001
 Client Sample Id: 812043-01
 Sample Date/Time: 07-DEC-98 0957
 Received Date: 10-DEC-98
 Batch: ALW153
 Blank: A
 Dry Weight %: N/A
 Extraction Date: 14-DEC-98
 Analysis Date: 21-DEC-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/L	ND	50	
4-CHLORO-3-METHYLPHENOL	UG/L	ND	10	
2-CHLOROPHENOL	UG/L	ND	10	
2,4-DICHLOROPHENOL	UG/L	ND	10	
2,6-DICHLOROPHENOL	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
4,6-DINITRO-2-METHYLPHENOL	UG/L	ND	50	
2,4-DINITROPHENOL	UG/L	ND	50	
2-METHYLPHENOL	UG/L	ND	10	
4-METHYLPHENOL	UG/L	ND	10	
2-NITROPHENOL	UG/L	ND	10	
4-NITROPHENOL	UG/L	ND	50	
PENTACHLOROPHENOL	UG/L	ND	50	
PHENOL	UG/L	ND	10	
2,3,4,6-TETRACHLOROPHENOL	UG/L	ND	10	
2,4,5-TRICHLOROPHENOL	UG/L	ND	50	
2,4,6-TRICHLOROPHENOL	UG/L	ND	10	
ACENAPHTHENE	UG/L	ND	10	
ACENAPHTHYLENE	UG/L	ND	10	
ACETOPHENONE	UG/L	ND	10	
4-AMINOBIIPHENYL	UG/L	ND	10	
ANILINE	UG/L	ND	10	
ANTHRACENE	UG/L	ND	10	
BENZIDINE	UG/L	ND	10	
BENZO (A) ANTHRACENE	UG/L	ND	10	
BENZO (A) PYRENE	UG/L	ND	10	
BENZO (B) FLUORANTHENE	UG/L	ND	10	
BENZO (G,H,I) PERYLENE	UG/L	ND	10	
BENZO (K) FLUORANTHENE	UG/L	ND	10	
BENZYL ALCOHOL	UG/L	ND	10	
BIS(2-CHLOROETHOXY)METHANE	UG/L	ND	10	
BIS(2-CHLOROETHYL)ETHER	UG/L	ND	10	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L	ND	10	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	ND	10	
4-BROMOPHENYL PHENYL ETHER	UG/L	ND	10	
BUTYLBENZYL PHTHALATE	UG/L	ND	10	
4-CHLOROANILINE	UG/L	ND	10	
1-CHLORONAPHTHALENE	UG/L	ND	10	
2-CHLORONAPHTHALENE	UG/L	ND	10	
4-CHLOROPHENYL PHENYL ETHER	UG/L	ND	10	

[0] Page 2
Date 22-Dec-98

"FINAL REPORT FORMAT - SINGLE"

Accession: 812170
Client: PINNACLE LABORATORIES
Project Number: 812043
Project Name: NMOC
Project Location: WATER WELL
Test: ACID & BASE EXTRACTABLES (8270C)
Analysis Method: 8270C/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: I

Lab Id: 001
Client Sample Id: 812043-01
Sample Date/Time: 07-DEC-98 0957
Received Date: 10-DEC-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/L	ND	10	
DIBENZ (A, J) ACRIDINE	UG/L	ND	10	
DIBENZO (A, H) ANTHRACENE	UG/L	ND	10	
DIBENZOFURAN	UG/L	ND	10	
1, 2-DICHLOROBENZENE	UG/L	ND	10	
1, 3-DICHLOROBENZENE	UG/L	ND	10	
1, 4-DICHLOROBENZENE	UG/L	ND	10	
3, 3' -DICHLOROBENZIDINE	UG/L	ND	50	
DIETHYLPHTHALATE	UG/L	ND	10	
P-DIMETHYLAMINOAZOBENZENE	UG/L	ND	10	
7, 12-DIMETHYLBENZ (A) ANTHRACENE	UG/L	ND	10	
A-, A-DIMETHYLPHENETHYLAMINE	UG/L	ND	10	
DIMETHYLPHTHALATE	UG/L	ND	10	
DI-N-BUTYLPHTHALATE	UG/L	ND	10	
2, 4-DINITROTOLUENE	UG/L	ND	10	
2, 6-DINITROTOLUENE	UG/L	ND	10	
DI-N-OCTYLPHTHALATE	UG/L	ND	10	
DIPHENYLAMINE	UG/L	ND	10	
1, 2-DIPHENYLHYDRAZINE	UG/L	ND	10	
FLUORANTHENE	UG/L	ND	10	
FLUORENE	UG/L	ND	10	
HEXACHLOROBENZENE	UG/L	ND	10	
HEXACHLOROBUTADIENE	UG/L	ND	10	
HEXACHLOROCYCLOPENTADIENE	UG/L	ND	10	
HEXACHLOROETHANE	UG/L	ND	10	
INDENO (1, 2, 3-CD) PYRENE	UG/L	ND	10	
ISOPHORONE	UG/L	ND	10	
3-METHYLCHOLANTHRENE	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
1-NAPHTHYLAMINE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-NITROANILINE	UG/L	ND	10	
3-NITROANILINE	UG/L	ND	10	
4-NITROANILINE	UG/L	ND	10	
NITROBENZENE	UG/L	ND	10	
N-NITROSODIMETHYLAMINE	UG/L	ND	10	
N-NITROSODI-N-BUTYLAMINE	UG/L	ND	10	
N-NITROSODIPHENYLAMINE	UG/L	ND	10	
N-NITROSO-DI-N-PROPYLAMINE	UG/L	ND	10	
N-NITROSOPIPERIDINE	UG/L	ND	10	
PENTACHLOROBENZENE	UG/L	ND	10	
PENTACHLORONITROBENZENE (PCNB)	UG/L	ND	10	
PHENACETIN	UG/L	ND	10	
PHENANTHRENE	UG/L	ND	10	

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Date 22-Dec-98

"FINAL REPORT FORMAT - SINGLE"

Accession: 812170
Client: PINNACLE LABORATORIES
Project Number: 812043
Project Name: NMOCD
Project Location: WATER WELL
Test: ACID & BASE EXTRACTABLES (8270C)
Analysis Method: 8270C/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3510/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: I

Lab Id: 001
Client Sample Id: 812043-01
Sample Date/Time: 07-DEC-98 0957
Received Date: 10-DEC-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/L	ND	10	
PRONAMIDE	UG/L	ND	10	
PYRENE	UG/L	ND	10	
1,2,4,5-TETRACHLOROBENZENE	UG/L	ND	10	
1,2,4 TRICHLOROBENZENE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	30	21-100	
PHENOL-D6	%REC/SURR	16	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	86	10-123	
2-FLUOROBIPHENYL	%REC/SURR	65	43-116	
NITROBENZENE-D5	%REC/SURR	60	35-114	
TERPHENYL-D14	%REC/SURR	91	33-124	
ANALYST	INITIALS	RW		

Comments: