



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS
AZTEC, NEW MEXICO
(505) 33

MECHANICAL INTEGRITY TEST REPORT
(TA or UIC)

Date of Test Aug 17, 1995 Operator Bloomfield Refining
Lease Name SWD Well (Class 1) W.D. Well # 1 Location: Unit I Sec 27 Twn 29 Rge 11

Land Type: State
Federal
Private X
Indian

Well Type: Water Injection
Salt Water Disposal X
Gas Injection
Producing Oil/Gas
Pressure Observation

Temporarily Abandoned Well (Y/N): TA Expires:

Casing Pres. 0 Tbg. SI Pres. Max. Inj. Pres. 955#
Bradenhead Pres. Tbg. Inj. Pres. Limit
Tubing Pres. 860
Int. Casing Pres.

Pressured annulus up to 800 psi. for 36 mins. Test passed/failed.

REMARKS:

Test started at 9:20 am, test concluded at 9:50 800#

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OIL CON. DIV.
AUG 17 1995
DIST. 3

By G. D. P.
(Operator Representative)
CONNIE PINNING CONSULTING ENGINEER
(Position)

Witness Samuel Cardona Deputy Oil Gas Inspector
(NMOCD)

612 DIAMOND
FARMINGTON, NM 87401

BJ SERVICES

API WATER ANALYSIS

Company: GIANT EXP.	W.C.N.A. Sample No.:
Field:	Legal Description:
Well: WD #1	Lease or Unit:
Depth:	Water.B/D:
Formation: MV	Sampling Point:
State: NM	Sampled By:
County: SAN JUAN	Date Sampled: 01/12/95
Type of Water(Produced,Supply, ect.): PROD.	

PROPERTIES

pH: 7.00	Iron, Fe(total): 0
Specific Gravity: 1.000	Sulfide as H2S: 0
Resistivity (ohm-meter): 1.00	Total Hardness:
Temperature: 78F	(see below)

D I S S O L V E D SOLIDS

CATIONS	mg/l	me/l	
Sodium, Na:	874	: 38	
Calcium, Ca:	120	: 6	Sample(ml): 10.0 ml of EDTA: 3.00
Magnesium, Mg:	15	: 1	Sample(ml): 10.0 ml of EDTA: .60
Barium, Ba:	N/A	: N/A	
Potassium, K:	30	: 1	
ANIONS	mg/l	me/l	
N: .500 Chloride, Cl:	886	: 25	Sample(ml): 10.0 ml of AgNO3: .50
Sulfate, SO4:	600	: 13	
Carbonate, CO3:	:	:	Sample(ml): 1.0 ml of H2SO4:
Bicarbonate, HCO3:	488	: 8	Sample(ml): 25.0 ml of H2SO4: 2.00
Total Dissolved Solids (calculated):	3013		
Total Hardness:	360		Sample(ml): 10.0 ml of EDTA: 3.60

REMARKS AND RECOMMENDATIONS: SAMPLE HAS HYDROCARBON ODOR

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OIL CORP. INC.
Baker



Bloomfield Refining
Company

A Gary Energy Corporation Subsidiary

July 11, 1995

Mr. Roger Anderson
Environmental Bureau
New Mexico OCD
2040 South Pacheco
Santa Fe, New Mexico 87505

Mr. Denny Foust
New Mexico OCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Monthly Water Effluent Report

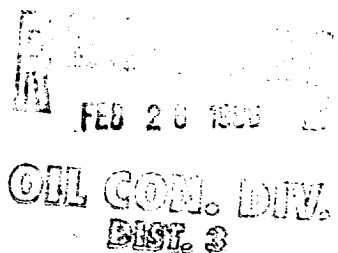
Dear Sirs:

Please find attached our June 1995 waste water effluent (GW-001) and injection well (GW-130) reports, with the analytical data for the second quarter.

Please call me if you need any additional information.

Sincerely,

Chris Hawley
Environmental Manager



CH/jm

Enclosure

cc: Joe Warr
Dave Roderick
Ron Weaver
Chad King
John Goodrich

24 FEB 23 1998
OIL CON. DIV.
DIST. 3

BLOOMFIELD REFINING COMPANY
P. O. BOX 159
BLOOMFIELD, NEW MEXICO 87413

MONTHLY INJECTION WELL REPORT
DISCHARGE PLAN GW-130, EXP. DATE: 11/4/1998
NE/4 SE/4, SECTION 27, T29N, R11W,
NMPM, SAN JUAN COUNTY, NEW MEXICO

PERIOD	AMOUNT OF WATER FROM RIVER (GALLONS)	AMOUNT TO SOLAR EVAP PONDS (GALLONS)	TOTALIZER AMOUNT INJECTED (GALLONS)	CALCULATED AMOUNT INJECTED (GALLONS)	DOWN- TIME (HRS)	INJECTION PRESSURE			ANNULAR PRESSURE			ON-LINE FLOW RATES			
						MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (PSIA)	MIN (PSIA)	AVG (PSIA)	MAX (GPM)	MIN (GPM)	AVG (GPM)	
1995															
JAN	11,597,000	3,794,400													
FEB	9,384,000	3,427,200	2,291,200	2,844,000	72	809	643	706	220	12	100	111	57	79	
MAR	10,659,000	3,178,300	4,383,100	5,498,880	28	949	763	870	220	37	100	151	98	128	
APR	9,977,000	3,371,300	289,400	316,800	669	902	712	807	70	64	67	136	85	110	
MAY	12,691,000	2,578,000	3,619,800	4,269,240	213	891	800	870	20	7	14	144	124	134	
JUN	11,802,000	2,418,100	3,707,300	4,172,760	201	918	839	869	8	0	4	150	127	134	
JUL															
AUG															
SEP															
OCT															
NOV															
DEC															
TOTAL	66,110,000	18,767,300	14,290,800	17,101,680											

CERTIFICATION: Captain DATE: 7-11-95

NOTES:

1. DOWNTIME IS NOT INCLUDED IN OPERATING DATA. FOR EXAMPLE, THE AVERAGE FLOW RATE FOR FEBRUARY IS BASED ON 25 DAYS.
2. MAXIMUM FLOW RATE DURING A SHORT TEST ON MARCH 7, 1995 WAS 151 GPM AT 949 PSI.

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client: Bloomfield Refining Co.
Project: Bloomfield, NM
Sample ID: GW-130 Inj.
Laboratory ID: W00571
Sample Matrix: Water
Condition: Cool/Intact

FEB 28 1995
OIL CON. DIV.
PMT. 3

Date Reported: 06/22/95
Date Sampled: 05/22/95
Time Sampled: 1300
Date Received: 05/22/95

Parameter	Analytical			
	Result	Units	Units	
Lab pH.....	8.5	s.u.		
Lab Conductivity @ 25° C.....	27,000	umhos/cm		
Total Dissolved Solids @ 180°C.....	11,500	mg/L		
Total Dissolved Solids (Calc).....	11,300	mg/L		
Sodium Absorption Ratio (SAR).....	42.9	ratio		
Total Hardness as CaCO3.....	1,340	mg/L		
Total Alkalinity as CaCO3.....	306	mg/L		
Bicarbonate as HCO3.....	349	mg/L	5.72	meq/L
Carbonate as CO3.....	12	mg/L	0.40	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	5,370	mg/L	151.37	meq/L
Sulfate.....	1,620	mg/L	33.83	meq/L
Calcium.....	375	mg/L	18.69	meq/L
Magnesium.....	99	mg/L	8.11	meq/L
Potassium.....	69	mg/L	1.77	meq/L
Sodium.....	3,610	mg/L	157.10	meq/L
Cations.....			185.67	meq/L
Anions.....			191.34	meq/L
Cation/Anion Difference.....			1.50	%

Field pH = 8.3

Field Conductivity = 10,000 ⁺⁺⁺

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

Reported by Y.M. Klute

Reviewed by mh

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client: Bloomfield Refining Co.
Project: Bloomfield, NM
Sample ID: GW-130 Inj.
Laboratory ID: W00571
Sample Matrix: Water
Condition: Cool/Intact

FEB 26 1995

OIL CON. DIV.
DIST. 3

Date Reported: 06/22/95
Date Sampled: 05/22/95
Time Sampled: 1300
Date Received: 05/22/95

Parameter	Dissolved Analytical Result	Units
Arsenic.....	0.023	mg/L
Barium.....	<0.5	mg/L
Cadmium.....	0.003	mg/L
Chromium.....	<0.02	mg/L
Lead.....	0.063	mg/L
Mercury.....	<0.001	mg/L
Selenium.....	0.006	mg/L
Silver.....	<0.01	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

Reported by: M. Klute

Reviewed by: mh

Quality Control / Quality Assurance**Known Analysis
Dissolved Metals**

Client: Bloomfield Refining Co.
Project: Bloomfield NM
Laboratory ID: W00571
Sample Matrix: Water

Date Reported: 06/22/95
Date Sampled: 05/22/95
Date Received: 05/22/95

Known Analysis

Parameter	Found Result	Known Result	Units	Percent Recovery
Arsenic	0.010	0.010	mg/L	100%
Barium	1.02	1.00	mg/L	102%
Cadmium	0.004	0.004	mg/L	100%
Chromium	0.98	1.00	mg/L	98%
Lead	1.06	1.00	mg/L	106%
Mercury	0.002	0.002	mg/L	100%
Selenium	0.010	0.010	mg/L	100%
Silver	1.01	1.00	mg/L	101%

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Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

Comments: Quality control run concurrently with the above sample lab numbers.

Reported by:

M. Klute

Reviewed by:

mh

Quality Control / Quality Assurance**Spike Analysis
Dissolved Metals**

Client: Bloomfield Refining Co.
Project: Bloomfield NM
Laboratory ID: W00571
Sample Matrix: Water

Date Reported: 06/22/95
Date Sampled: 05/22/95
Date Received: 05/22/95

Spike Analysis

Parameter	Spiked Sample Result	Sample Result	Spike Added	Percent Recovery
Arsenic	0.046	0.00	0.100	91%
Barium	0.55	0.06	0.50	98%
Cadmium	0.002	0.00	0.005	95%
Chromium	0.47	0.00	0.50	94%
Lead	0.51	0.00	0.50	102%
Mercury	0.004	0.00	0.00	90%
Selenium	0.049	0.003	0.100	95%
Silver	0.44	0.00	0.50	87%

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Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

Comments: Quality control run concurrently with the above sample lab numbers.

Reported by: M. Klute

Reviewed by: mh

VOLATILE AROMATIC HYDROCARBONS

Bloomfield Refining Co.

Project ID: Bloomfield NM
Sample ID: GW-130 Inj.
Lab ID: W00571
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 06/06/95
Date Sampled: 05/22/95
Date Received: 05/22/95
Date Extracted: NA
Date Analyzed: 06/05/95

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	1.0
Toluene	11.8	1.0
Ethylbenzene	ND	1.0
m,p-Xylenes	1.6	1.0
o-Xylene	ND	1.0

ND - Analyte not detected at the stated detection limit.

Quality Control: Surrogate Percent Recovery Acceptance Limits

Bromofluorobenzene 114.2 75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test
Methods for Evaluating Solid Wastes, SW-846, United States Environmental
Protection Agency, September 1986.

Comments:

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Anna Schaefer
Analyst

mk

Review



Inter-Mountain Laboratories, Inc.

Inorganics Laboratory
11183 SH 30 College Station, Texas 77845
Phone (409) 776-8945 FAX (409) 774-4705

Organics Laboratory
3304 Longmire Drive College Station, Texas 77845
Phone (409) 774-4999 Fax (409) 696-0692

EPA Method 624
PURGEABLES

FEB 26 1995

Client: BLOOMFIELD REFINING CO.
Project: Bloomfield, NM
Sample ID: GW-130 Inj
Laboratory ID: W571/0695G00868
Sample Matrix: Water
Preservative: Cool, HCl
Condition: Intact, pH<2

OIL CON. DIV.
DIST. 3

Report Date: 06/02/95
Date Sampled: 05/22/95
Date Received: 05/24/95
Date Extracted: 05/24/95
Date Analyzed: 05/24/95
Time Analyzed: 11:48 PM

Analyte	Concentration (mg/L)	Detection Limit (mg/L)
Benzene	ND	0.005
Bromoform	ND	0.005
Carbon tetrachloride	ND	0.005
Chlorobenzene	ND	0.005
Chlorodibromomethane	ND	0.005
Chloroethane	ND	0.010
2-Chloroethyl Vinyl Ether	ND	0.010
Chloroform	ND	0.005
Dibromochloromethane	ND	0.005
Dichlorodifluoromethane	ND	0.010
1,3-Dichlorobenzene	ND	0.005
1,2-Dichlorobenzene	ND	0.005
1,4-Dichlorobenzene	ND	0.005
1,1-Dichloroethane	ND	0.005
1,2-Dichloroethane	ND	0.005
1,1-Dichloroethylene	ND	0.005
1,2-Dichloropropane	ND	0.005
trans-1,3-Dichloropropene	ND	0.005
cis-1,3-Dichloropropene	ND	0.005
Ethylbenzene	ND	0.005
Methyl Bromide	ND	0.010
Methyl Chloride	ND	0.010
Methylene Chloride	ND	0.005
1,1,2,2-Tetrachloroethane	ND	0.005
Tetrachloroethylene	ND	0.005
Toluene	ND	0.005
1,2-Trans-dichloroethene	ND	0.005
1,1,1-Trichloroethane	ND	0.005
1,1,2-Trichloroethane	ND	0.005
Trichloroethylene	ND	0.005
Trichlorofluoromethane	ND	0.010
Vinyl Chloride	ND	0.005

ND - Analyte not detected at stated limit of detection.



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EPA Method 624

Page 2

PURGEABLES

ADDITIONAL DETECTED COMPOUNDS

Client: **BLOOMFIELD REFINING CO.**
Project: Bloomfield, NM
Sample ID: GW-130 Inj
Laboratory ID: W571/0695G00868

Report Date: 06/02/95
Date Sampled: 05/22/95
Date Analyzed: 05/24/95
Time Analyzed: 11:48 PM

Tentative Identification	Retention Time (Minutes)	Concentration (mg/L)
None detected at reportable levels.		

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Dibromofluoromethane	112%	86 - 118%
	Toluene-d8	101%	88 - 110%
	Bromofluorobenzene	95%	86 - 115%

Reference: Method 624 - Purgeables, 40 Code of Federal Regulations, Part 136 Appendix A, July 1993.

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Comments: A capillary column is used instead of a packed column as in the reference above.

Analyst

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Inorganic Laboratory
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OIL CON. DIV.
DET. 3

MATRIX SPIKE / SPIKE DUPLICATE ANALYSIS
EPA Method 624 - PURGEABLES

Laboratory ID: Matrix Spike and Spike Duplicate
Sample Matrix: Water
Preservative: NA
Condition: NA

Report Date: 06/01/95
Date Sampled: 05/22/95
Date Received: 05/24/95
Date Analyzed: 05/31/95
Time Analyzed: 1:59 PM/3:06 PM

MATRIX SPIKE ANALYSIS

Analyte	Spiked Sample	Sample	Spike Added	Percent	QC Limits
	Result (mg/L)	Result (mg/L)	(mg/L)	Recovery	Recovery
1,1 - Dichloroethene	0.065	ND	0.050	131%	61 - 145
Trichloroethene	0.059	ND	0.050	118%	71 - 120
Benzene	0.059	ND	0.050	118%	76 - 127
Toluene	0.054	ND	0.050	107%	76 - 125
Chlorobenzene	0.061	ND	0.050	122%	75 - 130

MATRIX SPIKE DUPLICATE ANALYSIS

Analyte	Duplicate	Percent	Original Spike		QC Limits	
	Result (mg/L)	Recovery	Recovery	RPD	RPD	Rec.
1,1 - Dichloroethene	0.065	129%	131%	1%	14%	61 - 145
Trichloroethene	0.057	114%	118%	4%	14%	71 - 120
Benzene	0.057	113%	118%	5%	11%	76 - 127
Toluene	0.050	101%	107%	6%	13%	76 - 125
Chlorobenzene	0.059	119%	122%	3%	13%	75 - 130

ND - Analyte not detected at stated limit of detection

Spike Recovery: 0 out of 10 outside QC Limits
RPD: 0 out of 5 outside QC Limits

Quality Control:	Surrogate	Spike Recovery	Spike Dup. Recovery	Spike Dup. Recovery Limits
	Dibromofluoromethane	112%	101%	86 - 118%
	Toluene-d8	108%	97%	88 - 110 %
	Bromofluorobenzene	107%	105%	86 - 115 %

Reference: Method 624 - Purgeables, 40 Code of Federal Regulations, Part 136, Appendix A, July 1993.

Comments: A capillary column is used instead of a packed column as in the reference above.

Analyst

Review



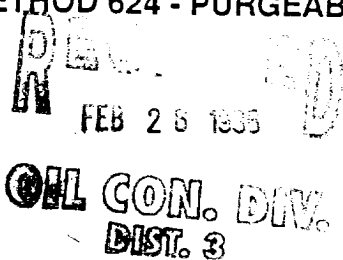
Inter-Mountain Laboratories, Inc.

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QUALITY CONTROL REPORT - METHOD BLANK EPA METHOD 624 - PURGEABLES

Sample ID: Method Blank
Laboratory ID: MB0524D
Sample Matrix: Water



Report Date: 06/02/95
Date Extracted: N/A
Date Analyzed: 05/24/95
Time Analyzed: 7:46 PM

Analyte	Concentration (mg/L)	Detection Limit (mg/L)
Benzene	ND	0.005
Bromoform	ND	0.005
Carbon tetrachloride	ND	0.005
Chlorobenzene	ND	0.005
Chlorodibromomethane	ND	0.005
Chloroethane	ND	0.010
2-Chloroethyl Vinyl Ether	ND	0.010
Chloroform	ND	0.005
Dibromochloromethane	ND	0.005
Dichlorodifluoromethane	ND	0.010
1,3-Dichlorobenzene	ND	0.005
1,2-Dichlorobenzene	ND	0.005
1,4-Dichlorobenzene	ND	0.005
1,1-Dichloroethane	ND	0.005
1,2-Dichloroethane	ND	0.005
1,1-Dichloroethylene	ND	0.005
1,2-Dichloropropane	ND	0.005
trans-1,3-Dichloropropene	ND	0.005
cis-1,3-Dichloropropene	ND	0.005
Ethylbenzene	ND	0.005
Methyl Bromide	ND	0.010
Methyl Chloride	ND	0.010
Methylene Chloride	ND	0.005
1,1,2,2-Tetrachloroethane	ND	0.005
Tetrachloroethylene	ND	0.005
Toluene	ND	0.005
1,2-Trans-dichloroethene	ND	0.005
1,1,1-Trichloroethane	ND	0.005
1,1,2-Trichloroethane	ND	0.005
Trichloroethylene	ND	0.005
Trichlorofluoromethane	ND	0.010
Vinyl Chloride	ND	0.005

ND - Analyte not detected at stated limit of detection



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QUALITY CONTROL REPORT - METHOD BLANK

EPA METHOD 624 - PURGEABLES

Page 2

ADDITIONAL DETECTED COMPOUNDS

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OIL CON. DIV.
DIST. 3

Sample ID: Method Blank
Laboratory ID: MB0524D

Report Date: 06/02/95
Date Sampled: 05/24/95
Date Analyzed: 05/24/95
Time Analyzed: 7:46 PM

Tentative Identification	Retention Time (Minutes)	Concentration* (mg/L)
None detected at reportable levels		

* - Concentration calculated using assumed Relative Response Factor = 1

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Dibromofluoromethane	96%	80 - 118%
	Toluene-d8	104%	88 - 110%
	Bromofluorobenzene	97%	86 - 115%

Reference: Method 624 - Purgeables, 40 Code of Federal Regulations, Part 136, Appendix A, July 1993.

Comments: A capillary column is used instead of a packed column as in the reference above.

Analyst

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DIST. 3

Quality Assurance / Quality Control

OIL CON. DIV.
LAB. 3VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORTMethod Blank AnalysisSample Matrix:
Lab ID:Water
Method BlankReport Date: 06/06/95
Date Analyzed: 05/31/95

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	111.6	75-125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

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LAB. 3
Analyst

Review

Quality Control / Quality Assurance**Known Analysis****BTEX**

Client: **Bloomfield Refining Co.**
Project: **Bloomfield NM**
Sample Matrix: **Water**

Date Reported: 06/06/95
Date Analyzed: 06/05/95

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DIST. 3

Known Analysis

Parameter	Found Concentration (ppb)	Known Concentration (ppb)	Percent Recovery
Benzene	9.1	10.0	91%
Toluene	8.3	10.0	83%
Ethylbenzene	9.2	10.0	92%
m+p-Xylene	9.6	10.0	96%
o-Xylene	7.5	10.0	75%

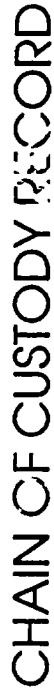
Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	113.7	75-125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Reported by Anna Schaefer

Reviewed by MX



CHAIN OF CUSTODY RECORD

[illegible]