



ENTERED

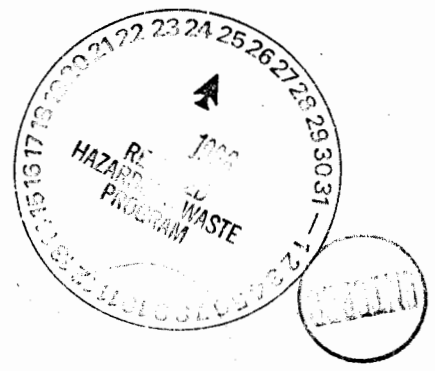


Bob →

50 Road 4990
P.O. Box 159
Bloomfield, New Mexico 87413
505
632-8013

March 22, 1996

Mr. Coby Muckelroy
HRMB
New Mexico Environment Department
2044 Galisteo St.
Santa Fe, New Mexico 87505



Re: RCRA Semi-Annual Groundwater Report
NMD 089 416 416

Giant - Bloomfield

Dear Mr. Muckelroy:

Giant Refining Company - Bloomfield submits the analytical data for the groundwater monitoring wells associated with the hazardous waste treatment system (Oily Water Ponds) at this facility. Please remember that the plume from other sources that lies atop the Nacimiento Aquitard (RCRA RFI Report) extends under the treatment impoundments. As such, the data should be evaluated accordingly.

Monitoring wells RW-15 and RW-18 are part of the facility's pump and treat groundwater remediation system. Monitoring wells MW-9, RW-15, and RW-18 all had visible hydrocarbons, with the analytical data significantly affected by this free product.

If you need additional information, please contact me at (505) 632 8013.

Sincerely:

Lynn Shelton
Environmental Manager
Giant Refining Company - Bloomfield

TLS/tls

Enclosure

**GIANT REFINING COMPANY - BLOOMFIELD, NEW MEXICO
MONITORING PER RCRA PART B PERMIT**

PARAMETER	UNIT	UPGRADIENT		DOWNGRADIENT		
		MW-21	RW-15	MW-20	MW-9	RW-18
Date of Sample		12/8/95	12/8/95	12/8/95	12/8/95	12/8/95
HYDROCARBON INDICATORS						
Benzene	mg/l	0.49	18	0.014	14	1.8
Ethylbenzene	mg/l	0.23	2.5	0.0022	ND	ND
Toluene	mg/l	1.3	22	0.00083	1.6	0.17
Xylenes (total)	mg/l	0.92	14.6	0.0011	5.59	0.7
pH	s.u	7.3	NM	7.24	7.36	NM
pH	s.u	7.21	NM	7.23	7.25	NM
pH	s.u	7.13	NM	7.22	7.2	NM
pH	s.u	7.09	NM	7.18	7.18	NM
Specific Conductance	us/cm	3350	NM	2480	1710	NM
Specific Conductance	us/cm	3650	NM	2530	1740	NM
Specific Conductance	us/cm	3670	NM	2490	1730	NM
Specific Conductance	us/cm	3610	NM	2410	1730	NM
Total Organic Carbon	mg/l	NA	NA	NA	free product	free product
Total Organic Halogen	mg/l	NA	NA	NA	free product	free product
GROUNDWATER LEVELS						
Elevation - TOP	ft	5518.62	5533.44	5516.46	5519.77	5526.08
Depth to Water	ft	20.05	34.62	18.27	21.75	NM
Elevation - GW	ft	5498.57	5498.82	5498.19	5498.02	
HC Thickness	ft	0	0	0	0.01	
Elevation - Liquid	ft				5498.03	
Total Depth fr TOP	ft	30.93	43.4	27.18	33.99	40.95
ND = Not Detected						
NA = Not Analyzed (not required by RCRA Part B Permit-hydrocarbon indicators only)						
NM = Not Measured (Pumps in wells operating, no need to evacuate and measure pH/conductance).						
TOP = Top of Pipe						

CASE NARRATIVE

RECEIVED

JAN 09 1996

Client: GIANT REFINING COMPANY
Project: Bloomfield, NM Received on: 12/12/95
Set ID: 0595H10408 # samples: 7

Suites: 602, M+ Dissolved, Water Quality

Samples were received for analysis at Inter-Mountain Laboratories (IML), Bozeman, Montana. Enclosed are the results of these analyses.

Limits of detection for each instrument/analysis are determined by sample matrix effects, instrument performance under standard conditions, and dilution requirements to maintain chromatography output within calibration ranges. Quantitations have been calculated on an as received basis.



Wynn Sudtelgte
IML-Bozeman

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: MW-1
Project ID: Bloomfield, NM
Lab ID: B9510408
Matrix: Water

Date Reported: 12/20/95
Date Sampled: 12/07/95
Date Received: 12/12/95
Date Extracted: NA
Date Analyzed: 12/20/95

Parameter	Result	PQL	Units
Benzene	ND	0.5	ug/L
Ethylbenzene	ND	0.5	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	ND	0.5	ug/L
Toluene	ND	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating
Solid Waste, Physical/Chemical Methods, United States Environmental
Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed us

DISSOLVED METALS ANALYSIS

Client: **GIANT REFINING COMPANY**
 Sample ID: MW-1
 Project ID: Bloomfield, NM
 Lab ID: B9510408
 Matrix: Water

Date Reported: 01/04/96
 Date Sampled: 12/07/95
 Date Received: 12/12/95

Parameter	Date Analyzed	Result	PQL	Units
Arsenic, Dissolved	01/03/96	ND	0.01	mg/L
Barium, Dissolved	01/03/96	ND	0.02	mg/L
Boron, Dissolved	01/03/96	0.71	0.1	mg/L
Cadmium, Dissolved	01/03/96	0.003	0.001	mg/L
Chromium, Dissolved	01/03/96	ND	0.02	mg/L
Iron, Dissolved	01/03/96	0.19	0.03	mg/L
Lead, Dissolved	01/03/96	ND	0.005	mg/L
Manganese, Dissolved	01/03/96	9.22	0.02	mg/L


ND - Not Detected at Practical Quantitation Level (PQL).


Preparation: Method 3005: Acid Digestion of Waters.

Analysis: AA Graphite Furnace

Analysis: Method 6010: Inductively Coupled Plasma-Atomic Emission Spectroscopy

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 SW-846, United States Environmental Protection Agency, November, 1990.

Analyst 

Reviewed 

GENERAL PARAMETERS

Client: **GIANT REFINING COMPANY**
 Sample ID: MW-1
 Project ID: Bloomfield, NM
 Lab ID: B9510408
 Matrix: Water

Date Reported: 01/11/96
 Date Sampled: 12/07/95
 Date Received: 12/12/95
 Date Extracted: NA

Parameter	Date Analyzed	Result	PQL	Units
Ammonia as N	12/15/95	3.9	0.07	mg/L
Chloride	12/15/95	1300	5.0	mg/L
Cyanide, Total	12/21/95	ND	0.01	mg/L
Nitrate + Nitrite as N	12/15/95	15	0.05	mg/L
Nitrogen, Total Kjeldahl (TKN)	01/03/96	10	0.5	mg/L
Phenols	12/18/95	ND	0.05	mg/L
Solids, Total Dissolved (TDS)	12/15/95	4400	10	mg/L
Sulfate	12/14/95	780	10	mg/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1982.
 Standard Methods for Examination of Water and Wastewater, 18th Edition, 1992.
 SW-846, United States Environmental Protection Agency, Nov. 1986.

Analyst ms / us

Reviewed us

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
 Sample ID: MW-5
 Project ID: Bloomfield, NM
 Lab ID: B9510409
 Matrix: Water

Date Reported: 12/22/95
 Date Sampled: 12/07/95
 Date Received: 12/12/95
 Date Extracted: NA
 Date Analyzed: 12/20/95

Parameter	Result	PQL	Units
Benzene	ND	0.5	ug/L
Ethylbenzene	ND	0.5	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	ND	0.5	ug/L
Toluene	ND	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating
 Solid Waste, Physical/Chemical Methods, United States Environmental
 Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed WJ

DISSOLVED METALS ANALYSIS

Client: GIANT REFINING COMPANY
Sample ID: MW-5
Project ID: Bloomfield, NM
Lab ID: B9510409
Matrix: Water

Date Reported: 01/04/96
Date Sampled: 12/07/95
Date Received: 12/12/95

Parameter	Date Analyzed	Result	PQL	Units
Arsenic, Dissolved	01/03/96	ND	0.01	mg/L
Barium, Dissolved	01/03/96	ND	0.02	mg/L
Boron, Dissolved	01/03/96	0.81	0.1	mg/L
Cadmium, Dissolved	01/03/96	ND	0.001	mg/L
Chromium, Dissolved	01/03/96	ND	0.02	mg/L
Iron, Dissolved	01/03/96	0.08	0.03	mg/L
Lead, Dissolved	01/03/96	ND	0.005	mg/L
Manganese, Dissolved	01/03/96	0.24	0.02	mg/L

ND - Not Detected at Practical Quantitation Level (PQL).

Preparation: Method 3005: Acid Digestion of Waters.

Analysis: Method 6010: Inductively Coupled Plasma-Atomic Emission Spectroscopy

Analysis: AA Graphite Furnace

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
SW-846, United States Environmental Protection Agency, November, 1990.

Analyst



Reviewed



GENERAL PARAMETERS

Client: **GIANT REFINING COMPANY**
Sample ID: MW-5
Project ID: Bloomfield, NM
Lab ID: B9510409
Matrix: Water

Date Reported: 01/11/96
Date Sampled: 12/07/95
Date Received: 12/12/95
Date Extracted: NA

Parameter	Date Analyzed	Result	PQL	Units
Ammonia as N	12/15/95	ND	0.07	mg/L
Chloride	12/15/95	2600	5.0	mg/L
Cyanide, Total	12/21/95	ND	0.01	mg/L
Nitrate + Nitrite as N	12/15/95	16	0.05	mg/L
Nitrogen, Total Kjeldahl (TKN)	01/03/96	5.0	0.5	mg/L
Phenols	12/18/95	0.37	0.05	mg/L
Solids, Total Dissolved (TDS)	12/15/95	7500	10	mg/L
Sulfate	12/14/95	960	10	mg/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1982.
Standard Methods for Examination of Water and Wastewater, 18th Edition, 1992.
SW-846, United States Environmental Protection Agency, Nov. 1986.

Analyst ms/ue

Reviewed uo

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
 Sample ID: MW-21
 Project ID: Bloomfield, NM
 Lab ID: B9510410
 Matrix: Water

Date Reported: 12/22/95
 Date Sampled: 12/08/95
 Date Received: 12/12/95
 Date Extracted: NA
 Date Analyzed: 12/20/95

Parameter	Result	PQL	Units
Benzene	490	20	ug/L
Ethylbenzene	230	20	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	0.92	0.5	ug/L
Toluene	1.3	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating
 Solid Waste, Physical/Chemical Methods, United States Environmental
 Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed UB

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: RW-15
Project ID: Bloomfield, NM
Lab ID: B9510411
Matrix: Water

Date Reported: 12/22/95
Date Sampled: 12/08/95
Date Received: 12/12/95
Date Extracted: NA
Date Analyzed: 12/21/95

Parameter	Result	PQL	Units
Benzene	18000	2000	ug/L
Ethylbenzene	2500	2000	ug/L
m,p-Xylene	9500	2000	ug/L
o-Xylene	5100	2000	ug/L
Toluene	22000	2000	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed WB

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
 Sample ID: MW-20
 Project ID: Bloomfield, NM
 Lab ID: B9510412
 Matrix: Water

Date Reported: 12/22/95
 Date Sampled: 12/08/95
 Date Received: 12/12/95
 Date Extracted: NA
 Date Analyzed: 12/20/95

Parameter	Result	PQL	Units
Benzene	14	0.5	ug/L
Ethylbenzene	2.2	0.5	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	1.1	0.5	ug/L
Toluene	0.83	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating
 Solid Waste, Physical/Chemical Methods, United States Environmental
 Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed WJ

LAB QA/QC
EPA METHOD 602
INSTRUMENT BLANK

Date Analyzed: 12/21/95
Lab ID: IBW95355
Matrix: Water

Parameter	Result	PQL	Units
Benzene	ND	0.5	ug/L
Ethylbenzene	ND	0.5	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	ND	0.5	ug/L
Toluene	ND	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Analyst SR

Reviewed US

**LAB QA/QC
EPA METHOD 602
MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY**

Date Analyzed: 12/20/95
Lab ID: 0595H10409
Matrix: Water

Original Sample Parameters

Parameter	Spike Added (ug/L)	Sample Result (ug/L)	Spike Result (ug/L)	MS Recovery %	QC Limits Rec.
Benzene	10	0	9.2	92	79 .117
Ethylbenzene	10	0	8.7	87	77 .121
m,p-Xylene	20	0	17	85	78 .134
o-Xylene	10	0	8.9	89	75 .117
Toluene	10	0	8.8	88	70 .126

Duplicate Sample Parameters

Parameter	Spike Added (ug/L)	MSD Result (ug/L)	MSD Recovery %	RPD %	QC Limits RPD Rec.
Benzene	10	8.9	89	3	25 79 .117
Ethylbenzene	10	8.7	87	0	25 77 .121
m,p-Xylene	20	17	85	0	25 78 .134
o-Xylene	10	8.7	87	2	25 75 .117
Toluene	10	8.8	88	0	25 70 .126

Note: Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 10 outside QC limits.
RPD: 0 out of 5 outside QC limits.

Analyst SR

Reviewed US

LAB QA/QC
EPA METHOD 602
MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

Date Analyzed: 12/19/95
Lab ID: 0595H10266
Matrix: Water

Original Sample Parameters

Parameter	Spike Added (ug/L)	Sample Result (ug/L)	Spike Result (ug/L)	MS Recovery %	QC Limits Rec.
Benzene	10	0	10	100	79 -117
Ethylbenzene	10	0	10	100	77 -121
m,p-Xylene	20	0	20	100	78 -134
o-Xylene	10	0	10	100	75 -117
Toluene	10	0	10	100	70 -126

Duplicate Sample Parameters

Parameter	Spike Added (ug/L)	MSD Result (ug/L)	MSD Recovery %	RPD %	QC Limits RPD Rec.
Benzene	10	9.8	98	2	25 79 -117
Ethylbenzene	10	9.5	95	5	25 77 -121
m,p-Xylene	20	19	95	5	25 78 -134
o-Xylene	10	9.3	93	7	25 75 -117
Toluene	10	9.3	93	7	25 70 -126

Note: Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 10 outside QC limits.

RPD: 0 out of 5 outside QC limits.

Analyst SR

Reviewed us

**LAB QA/QC
EPA METHOD 602
MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY**

Date Analyzed: 12/21/95
Lab ID: 0595H10267
Matrix: Water

Original Sample Parameters

Parameter	Spike Added (ug/L)	Sample Result (ug/L)	Spike Result (ug/L)	MS Recovery %	QC Limits Rec.
Benzene	10	0	11.5	115	79 -117
Ethylbenzene	10	0	10	100	77 -121
m,p-Xylene	20	0	22	110	78 -134
o-Xylene	10	0	11	110	75 -117
Toluene	10	0	11	110	70 -126

Duplicate Sample Parameters

Parameter	Spike Added (ug/L)	MSD Result (ug/L)	MSD Recovery %	RPD %	QC Limits RPD Rec.
Benzene	10	11	110	4	25 79 -117
Ethylbenzene	10	10	100	0	25 77 -121
m,p-Xylene	20	21	105	5	25 78 -134
o-Xylene	10	10	100	10	25 75 -117
Toluene	10	11	110	0	25 70 -126

Note: Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 10 outside QC limits.

RPD: 0 out of 5 outside QC limits.

Analyst SR

Reviewed CS



CHAIN OF CUSTODY RECORD

Client/Project Name <i>Giant Refining Co.</i>			Project Location <i>Bloomfield, NM</i>			ANALYSES / PARAMETERS						
Sampler: (Signature) <i>Keri Cook</i>			Chain of Custody Tape No.			No. of Containers	BTEX 10/21/05	VOCs 10/21/05	Pesticides 10/21/05	Metals 10/21/05	Other 10/21/05	Remarks
Sample No./ Identification	Date	Time	Lab Number	Matrix								
MW-21 MW-1	12/7/05	1610	B9510/406	groundwater	68	X	X	X	X		Metal are unprocessed	
BW-15 MW-5	↓	1740	10409	groundwater	68	X	X	X	X		& require filtering by lab immediately	
Relinquished by: (Signature) <i>Keri Cook</i>			Date	Time	Received by: (Signature) <i>Allison Pruitt</i>			Date	Time			
Relinquished by: (Signature) <i>IML - I.M.</i>			Date	Time	Received by: (Signature) <i>Fred Warner</i>			Date	Time			
Relinquished by: (Signature) <i>Fred Warner</i>			Date	Time	Received by laboratory: (Signature) <i>Valerie Hargis</i>			Date	Time			
Inter-Mountain Laboratories, Inc.										19601		
<input type="checkbox"/> 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	<input type="checkbox"/> 1714 Phillips Circle Gillette, Wyoming 82716 Telephone (307) 682-8945	<input checked="" type="checkbox"/> 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	<input type="checkbox"/> 1160 Research Dr. Bozeman, Montana 59715 Telephone (406) 586-8450	<input type="checkbox"/> 11183 SH 30 College Station, TX 77845 Telephone (409) 776-8945	<input type="checkbox"/> 3304 Longmire Drive College Station, TX 77845 Telephone (409) 774-4999							



CHAIN OF CUSTODY RECORD

Client/Project Name <i>Grant Refining Co.</i>			Project Location <i>Bloomfield, NM</i>			ANALYSES / PARAMETERS					
Sampler: (Signature) <i>Kari Cook</i>			Chain of Custody Tape No.			No. of Containers <i>3</i>	<i>3</i>	<i>602</i>	<i>602</i>	<i>602</i>	Remarks
Sample No./ Identification	Date	Time	Lab Number	Matrix							
<i>MW-21</i>	<i>12/18/95</i>	<i>0910</i>	<i>BYS10410</i>	<i>groundwater</i>	<i>2</i>	<i>X</i>					
<i>RW-15</i>	↓	<i>1010</i>	<i>10411</i>	↓	<i>2</i>	<i>X</i>					
<i>MW-20</i>	↓	<i>0945</i>	<i>10412</i>	↓	<i>2</i>	<i>X</i>					
<i>MW-9</i>	↓	<i>0835</i>	<i>10413</i>	↓	<i>2</i>	<i>X</i>					<i>1165 BHAOR</i>
<i>RW-18</i>	↓	<i>1040</i>	<i>10414</i>	↓	<i>2</i>	<i>X</i>					<i>1165 BHAOR</i>
<i>Dry Plant</i>			<i>10415</i>		<i>1</i>	<i>✓</i>					
											<i>water temp</i>
											<i>8.1</i>
											<i>(no ice)</i>
Relinquished by: (Signature) <i>Kari Cook</i>				Date <i>12/18/95</i>	Time <i>1150</i>	Received by: (Signature) <i>Sharon Penell</i>				Date <i>12/18/95</i>	Time <i>1156</i>
Relinquished by: (Signature) <i>IML - FM</i>				Date	Time	Received by: (Signature) <i>Feb by (Carrier)</i>				Date	Time
Relinquished by: (Signature) <i>Feb by (Carrier)</i>				Date	Time	Received by laboratory: (Signature) <i>Delene Henry</i>				Date <i>12/19/95</i>	Time <i>1150</i>
Inter-Mountain Laboratories, Inc.											
<input type="checkbox"/> 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	<input type="checkbox"/> 1714 Phillips Circle Gillette, Wyoming 82716 Telephone (307) 682-8945	<input type="checkbox"/> 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	<input type="checkbox"/> 1160 Research Dr. Bozeman, Montana 59715 Telephone (406) 586-8450	<input type="checkbox"/> 11183 SH 30 College Station, TX 77845 Telephone (409) 776-8945	<input type="checkbox"/> 3304 Longmire Drive College Station, TX 77845 Telephone (409) 774-4999	19802					



EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: MW-9
Project ID: Bloomfield, NM
Lab ID: B9510413
Matrix: Water

Date Reported: 12/22/95
Date Sampled: 12/08/95
Date Received: 12/12/95
Date Extracted: NA
Date Analyzed: 12/21/95

Parameter	Result	PQL	Units
Benzene	14000	500	ug/L
Ethylbenzene	ND	500	ug/L
m,p-Xylene	4600	500	ug/L
o-Xylene	990	500	ug/L
Toluene	1600	500	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed UD

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: RW-18
Project ID: Bloomfield, NM
Lab ID: B9510414
Matrix: Water

Date Reported: 12/22/95
Date Sampled: 12/08/95
Date Received: 12/12/95
Date Extracted: NA
Date Analyzed: 12/21/95

Parameter	Result	PQL	Units
Benzene	1800	100	ug/L
Ethylbenzene	ND	100	ug/L
m,p-Xylene	550	100	ug/L
o-Xylene	150	100	ug/L
Toluene	170	100	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed US

EPA METHOD 602
PURGEABLE AROMATIC COMPOUNDS

Client: GIANT REFINING COMPANY
 Sample ID: Trip Blank
 Project ID: Bloomfield, NM
 Lab ID: B9510415
 Matrix: Water

Date Reported: 12/22/95
 Date Sampled: 12/08/95
 Date Received: 12/12/95
 Date Extracted: NA
 Date Analyzed: 12/20/95

Parameter	Result	PQL	Units
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m,p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Reference: Method 602, Purgeable Aromatic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency. Analysis Method: Gas Chromatograph / Purge and Trap / PID.

Analyst SR

Reviewed US

QUALITY ASSURANCE / QUALITY CONTROL

LAB QA/QC
EPA METHOD 602
INSTRUMENT BLANK

Date Analyzed: 12/20/95
Lab ID: IBW95354
Matrix: Water

Parameter	Result	PQL	Units
Benzene	ND	0.5	ug/L
Ethylbenzene	ND	0.5	ug/L
m,p-Xylene	ND	0.5	ug/L
o-Xylene	ND	0.5	ug/L
Toluene	ND	0.5	ug/L

ND - Not Detected at Practical Quantitation Level (PQL).

Analyst SR

Reviewed us

LAB QA/QC
EPA METHOD 602
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Date Analyzed: 12/19/95
Lab ID: IBW95353
Matrix: Water

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