

GW - 2

MONITORING REPORTS

DATE:

1998-1995



GPM GAS CORPORATION

4044 PENBROOK
ODESSA, TEXAS 79762

NEW MEXICO REGION

December 4, 1998

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DEC 07 1998

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Mr. William C. Olson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Environmental Bureau
2040 S. Pacheco
Santa Fe, New Mexico 87505

Dear Mr. Olson:

Attached is the 1998 Annual Groundwater Monitoring and Sampling Report for GPM Gas Corporation's Lee Gas Plant. The report contains the following recommendations:

1. Continue groundwater recovery operations since the present system has been effective in limiting the downgradient migration of the dissolved-phase hydrocarbon plume.
2. For groundwater recovery operations to be a continued successful remedial option, installation of two or three new recovery wells are necessary because of declining water levels which corresponds to reduced groundwater recovery rates in the present system.
3. Continue free product recovery from monitoring well MW-5 and MW-15 using the Xitech product recovery system.
4. Continue hand bailing free product from monitoring well MW-8.
5. Continue the sampling and monitoring program on a semi-annual basis.

The next sampling event for Lee Gas Plant is scheduled for January 1999. The OCD will be notified at least one week in advance of any scheduled activity at the site. If you have any questions or concerns with our recommendations, please advise. I can be reached at (915) 368-1142.

Sincerely,

Mel P. Driver
Environmental Engineer, P.E.
New Mexico Region

Attachments

xc: Chris Williams, OCD-Hobbs District
Mark Nault, GPM-Linam Ranch Plant
Gilbert Van Deventer, BDM-Midland



GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

December 11, 1997

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DEC 15 1997

Environmental Bureau
Oil Conservation Division

Mr. William C. Olson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Environmental Bureau
2040 S. Pacheco
Santa Fe, New Mexico 87505

Dear Mr. Olson:

Attached are the 1997 Annual Groundwater Monitoring and Sampling Reports for GPM Gas Corporation's Lee Gas Plant, Linam Ranch Plant (EOTT tanks), and Monument Booster Station.

The next sampling event for each site is scheduled for January 1998. The OCD will be notified at least one week in advance of any scheduled activity at the sites.

If you have any questions or concerns with the recommendations provided in each report, please advise. I can be reached at (915) 368-1142.

Sincerely,

Mel Driver
Environmental Engineer
New Mexico Region


cc: Jerry Sexton, OCD-Hobbs District
Mark Nault, GPM-Linam Ranch Plant
Tony Canfield, GPM-Eunice Plant
Gilbert Van Deventer, BDM-Midland



RECORD OF: MEETING ✓ TELECON

RECEIVED

JUN 23 1997

| | |
|---|--|
| Project Name / Number: P/2341/3C | Call From: Bill Olson Environmental Bureau Oil Conservation Division |
| Topic: Lee Plant Remediation and Sampling Program | Company Name: NMOCD Address: 2040 S. Pacheco City: Santa Fe State: NM Zip: 87505 Phone: 505-827-7154 |
| Other Participants: | Call To: Gil Van Deventer BDM Environmental Services Midland, TX |
| Date: June 18, 1997 | |
| Discussion: <p>Bill returned my call after I faxed him a copy of the <i>First Quarter 1997 Analytical Results</i> report for GPM's Lee Plant. In this report, GPM requests a change in sampling frequency, which basically is a reduction from a quarterly sampling frequency to a semi-annual frequency. Bill approved the request for the change with the following exceptions, clarifications and additions:</p> <ul style="list-style-type: none">• Two sampling events shall occur each year (first quarter and third quarter).• During the annual sampling event (3rd quarter), all monitoring wells will be sampled except for those with free product or unless they are dry.• Additional analyses are required for intrinsic bioremediation indicators, including dissolved oxygen (DO), iron (Fe), manganese (Mn), nitrate (NO₃) and sulfate (SO₄).• Historical analytical results must be summarized in tabular form in the annual report.• Plots of concentration vs. time for relevant contaminants for each monitoring point.• Plots of water table elevation vs. time for each monitoring point.• Only one report needs to be submitted to the OCD on an annual basis (due October 1 each year). <p>Bill gave verbal approval to conduct the next (annual) sampling event during the 3rd quarter of 1997 implementing the above requirements. Bill will need an original copy of the <i>First Quarter 1997 Analytical Results</i> report and can provide written response in approximately 60 days after receipt of the report.</p> | |
| Action Items: <p>GPM - Submit <i>First Quarter 1997 Analytical Results</i> report to OCD Santa Fe and Hobbs offices. BDM - Conduct annual sampling event during third quarter (July or August). Notify OCD 1 week prior.</p> | |
| Distribution: Scott Seeby - GPM, Mel Driver - GPM Bill Olson - NMOCD, Mike Selke - BDM | Signed:  |

FACSIMILE TRANSMISSION***BDM*****Date:** January 14, 1997**Time:** 11:55 AM**Operator:** gjv**To: Company:** New Mexico Energy, Minerals & Natural Resources Department**Attention:** Bill Olson**FAX No:** 505-827-8177**Telephone No.:** 505-827-7154

From: Gil Van Deventer *gvd*
BDM International, Inc.
Engineering Services Division
415 West Wall Street, Suite 1818
Midland, TX 79701

Telephone No.: (915) 682-0008**FAX No.:** (915) 682-0028**Number of Pages (Including Lead Page):** 1**Re:** Notification of Field Activities at the GPM - Lee Plant near Buckeye, NM

BDM has scheduled the First Quarter 1997 Groundwater Sampling Event at the GPM - Lee Plant near Buckeye, NM for January 22, 1997 (weather permitting).

Work will consist of gauging all monitoring wells on site and sampling the following monitoring wells: MW-11, MW-12, MW-13, MW-19, MW-20, MW-2 & MW-18. The samples will be analyzed for BTEX (EPA Method 8020) as outlined in the OCD-approved discharge plan.

Please call me at 915-682-0008 if you have any questions.

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GPM GAS CORPORATION

4044 PENBROOK
ODESSA, TX 79762

September 21, 1996

Mr. William Olson - Hydrogeologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
State Land Office Building
Santa Fe, New Mexico 87505

RECEIVED
OCT 1 1996

Environmental Bureau
Oil Conservation Division

**RE: SECOND QUARTER 1996 ANALYTICAL RESULTS
LEE PLANT, DISCHARGE PLAN GW-2
LEA COUNTY, NEW MEXICO**

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the second quarter of 1996 (see attached analytical results, report date May 2, 1996). Sampling was conducted by Geoscience Consultants, Ltd. (GCL) on April 25, 1996, pursuant to New Mexico Oil Conservation Division (NMOCD) Discharge Plan GW-2 requirements.

Depth to groundwater and product thickness was measured in all monitor wells. A groundwater level contour map for the April event is provided in Attachment B.

The average daily pumping rates in gallons per day (gpd) from the remediation system recovery wells for the months of March, April, and May 1996 are as follows:

- RW-1 (1161 gpd)
- MW-6 (422 gpd)
- MW-7 (458 gpd)
- MW-10 (867 gpd)

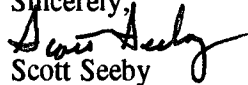
Quarterly groundwater sampling was conducted at five down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), and at three remediation system monitoring wells (MW-14, MW-21, and MW-22). To prevent the potential for cross-contamination, the 4-inch diameter monitoring wells were first purged of approximately 50 gallons with a Grundfos Redi-Flow 2 pump. Monitoring wells MW-21 and MW-22 (2-inch diameter) were purged by hand bailing approximately 5 gallons of water using a new decontaminated disposable bailer. After purging each monitoring well, a dedicated disposable bailer was used to collect the sample for laboratory analysis. All samples were submitted to NDRC Laboratories, Inc., Richardson, Texas, following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the eight wells were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) using Environmental Protection Agency (EPA) Method 602.

Mr. William Olson
September 21, 1996
Page 2

Table 1 summarizes the second quarter 1996 analytical results. A site map of the plant which lists the historical analytical results from January 1992 to present is provided in Plate 1. A discussion of the field data and analytical results is provided below.

- A sheen (< 0.01 ft.) of free-phase floating product was encountered in MW-4 during the April 25, 1996 sampling event. This indicates a continued decrease in floating product thickness in this monitoring well since the May 1995 (0.95 ft.) and August 1995 (0.01 ft.) sampling events.
- MW-5 contained product at a thickness of 4.11 ft on the April 25, 1996 sampling event which is consistent with previous measurements.
- No free product was encountered in MW-15. This is a continued decrease from the previous October 1995 and January 1996 sampling events in which a thickness of 0.03 feet and < 0.01 feet, respectively, were measured. Free-phase floating product was not observed prior to the August 1995 sampling event.
- Analytical results from the laboratory indicate the BTEX concentrations in all down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), and remediation monitoring wells MW-21 and MW-22 are near or below the laboratory detection limit of 1.0 microgram per liter ($\mu\text{g/l}$).
- The BTEX concentrations for monitoring well MW-14 (downgradient from pumping well MW-10) indicates an increase from previous sampling events in 1992 and 1993.
- The analytical results for the downgradient wells have been below WQCC standards, and in most cases also below the laboratory detection limits for the last four to eight quarters.
- The analytical data indicates the continued effectiveness of the remediation system in capturing the hydrocarbon plume and reversal of downgradient migration.

GPM has tentatively scheduled the second quarter sampling event at the Lee Plant to take place in July of this year in conjunction with sampling activities at the Linam Ranch Plant and Monument Booster Station. We will notify your office and the NMOCD Hobbs District Office at least one week prior to conducting the next sampling event. Please call me at 915-368-1142 if you have any questions.

Sincerely,

Scott Seeby
Environmental Engineer
New Mexico Region

attachments

cc: M.S. Nault, GPM-Linam Ranch Plant, NM
Jerry Sexton, NMOCD-Hobbs, NM
Gilbert Van Deventer, GCL-Midland, TX

ATTACHMENTS

ATTACHMENT C
LABORATORY ANALYTICAL REPORTS



Inchcape Testing Services

Environmental Laboratories

RECEIVED JAN 25 1996

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

ANALYTICAL REPORT

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya
PROJECT : GPM Lee Plant

Included in this data package are the analytical results for the sample group which you have submitted to Inchcape Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Any deviations from these protocols or observations of interest are detailed in an accompanying Case Narrative. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (214) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus
General Manager



REPORT NUMBER : D96-536-1
REPORT DATE : 19-JAN-1996

SAMPLE MATRIX : Liquid
ID MARKS : 9601161015 MW-11
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| QUALITY CONTROL DATA | | |
|----------------------|---------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 99.6 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-2

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161100 Rinsate #1
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| STEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 | µg/L |
| BTEX (total) | | | < | 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 99.5 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-3
REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161110 Rinsate #2
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 | µg/L |
| BTEX (total) | | | < 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 100 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-4

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161200 MW-13
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | |
|----------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 1.0 µg/L | < 1.0 µg/L |
| BTEX (total) | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 97.6 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-5

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161245 MW-12
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 | µg/L |
| BTEX (total) | | | < 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 100 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-6
REPORT DATE : 19-JAN-1996

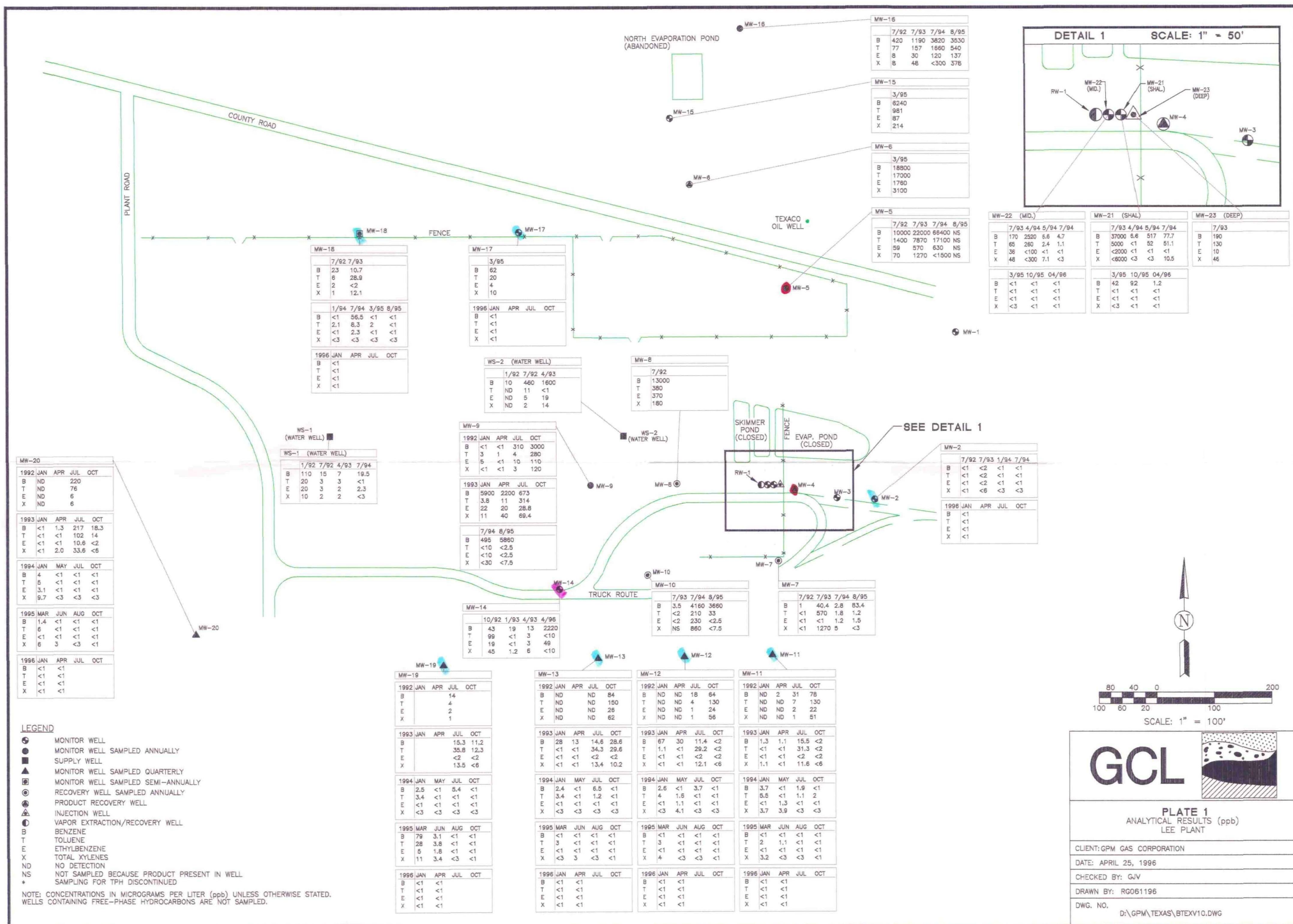
SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161330 MW-20
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 µg/L |
| BTEX (total) | | | < | 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 98.7 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.





Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-7
REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161216 MW-2
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 98.7 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-8

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161400 MW-19
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 | µg/L |
| BTEX (total) | | | < 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 99.0 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-9

REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161430 MW-18
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 | µg/L |
| BTEX (total) | | | < 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 98.5 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-10
REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9601161435 Trip Blank
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 100 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 18-JAN-1996

REPORT NUMBER : D96-536-11
REPORT DATE : 19-JAN-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 96011611515 MW-17
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-011896A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 91.0 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



REPORT NUMBER : D96-536-12
REPORT DATE : 19-JAN-1996

SAMPLE MATRIX : Liquid
ID MARKS : 9601161610 MW-25
PROJECT : GPM Lee Plant
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : MKS
ANALYZED ON : 19-JAN-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
OC BATCH NO : 34-011896A

| QUALITY CONTROL DATA | | |
|----------------------|--------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 91.1 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



REPORT DATE : 19-JAN-1996

REPORT NUMBER : D96-536

SAMPLE SUBMITTED BY : GCL

ATTENTION : M^{rs}. Annette Montoya

PROJECT : GPM Lee Plant

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Ethyl Benzene |
|-----------------|------------|---------------|
| BATCH NO. | 34-011896A | 34-011896A |
| LCS LOT NO. | AB214-82A | AB214-82A |
| PREP METHOD | --- | --- |
| PREPARED BY | --- | --- |
| ANALYSIS METHOD | EPA 8020 | EPA 8020 |
| ANALYZED BY | MKS | MKS |
| UNITS | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 |
| SPIKE LEVEL | 500 | 500 |
| MS RESULT | 506 | 529 |
| MS RECOVERY % | 101 | 106 |
| MSD RESULT | 485 | 504 |
| MSD RECOVERY % | 97.0 | 101 |
| MS/MSD RPD % | 4.24 | 4.84 |
| BS RESULT | NA | NA |
| BS RECOVERY % | NA | NA |
| BSD RESULT | NA | NA |
| BSD RECOVERY % | NA | NA |
| BS/BSD RPD % | NA | NA |
| DUPLICATE RPD % | NA | NA |
| LCS LEVEL | 50.0 | 50.0 |
| LCS RESULT | 53.2 | 54.3 |
| LCS RECOVERY % | 106 | 109 |
| SPIKE SAMPLE ID | 536-10 | 536-10 |
| DUP SAMPLE ID | --- | --- |

NA

Not applicable



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

DIANE

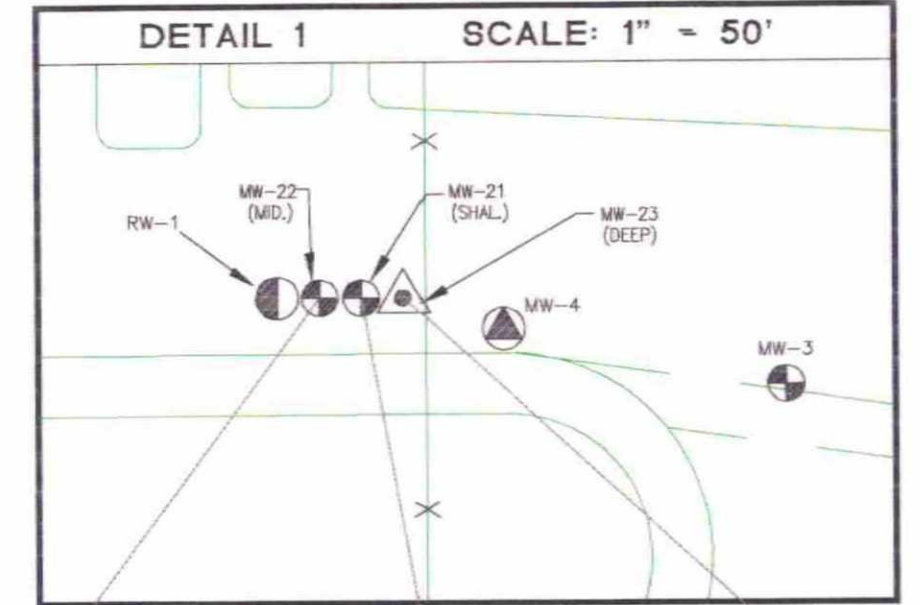
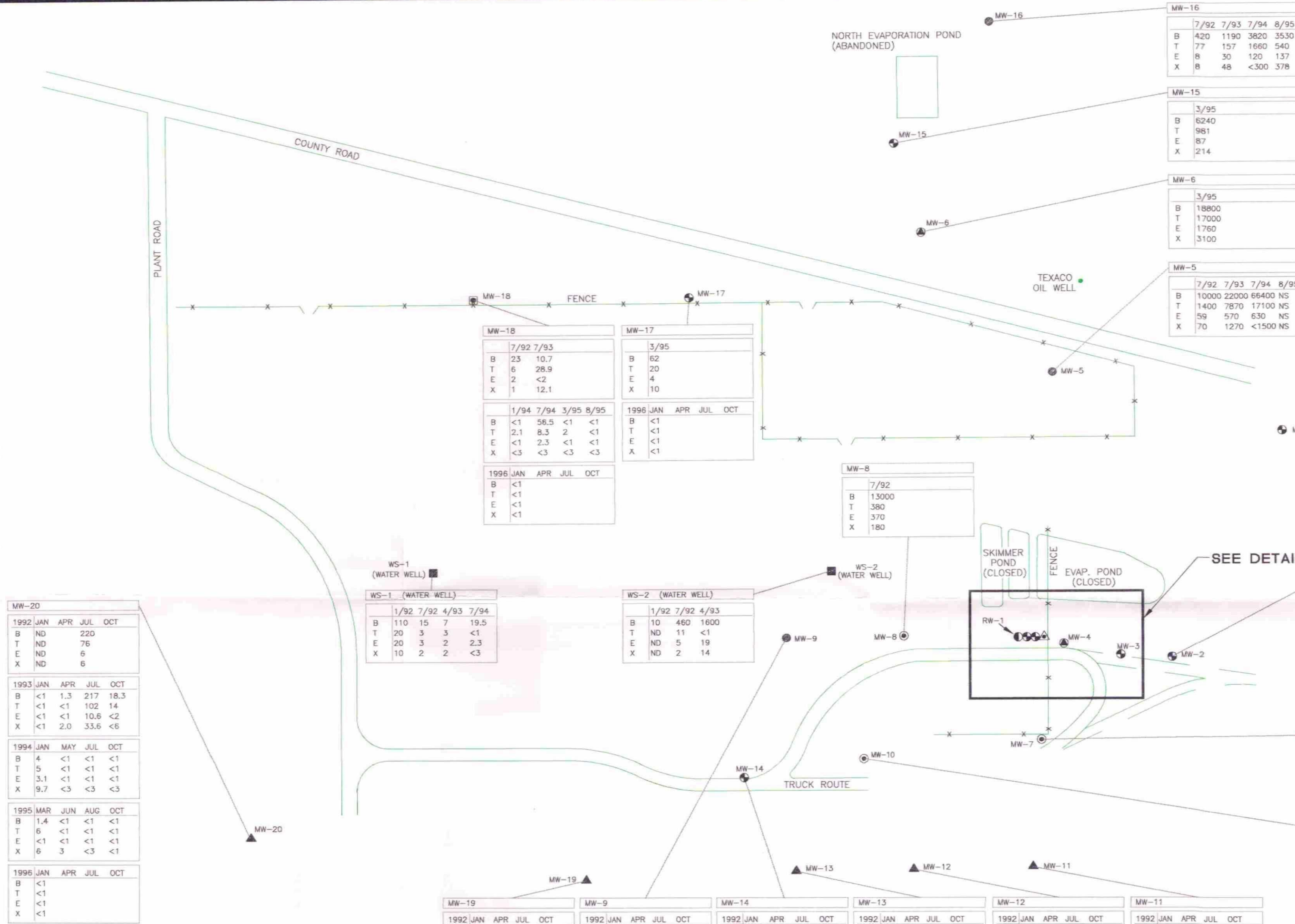
No. 9889

Chain of Custody

Date 1/16/96 Page 1 of 1

Analysis Request

| Lab Name: <u>THE ESCAPE TESTING SERVICES</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------|------------|---|-----------------------------|-------------------------------|-------------------------|--|-----------------------------------|--|-------------------------------------|----------------------------------|------------------------------|------------------------|--|--------------|----------------|--------------------------------|---------------------------|-------------|-------------|------------|--------------|------------------------|------------------------------|----------------------|
| Address: <u>1089 E Collins Blvd</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Telephone: <u>214 738 5571</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Samplers (SIGNATURES) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Number | Matrix | Location | Halogenated Volatiles 601/8010 | Aromatic Volatiles 602/8020 | Phenols, Sub Phenols 604/8040 | Pesticides/PCB 608/8080 | Polynuclear Aromatic Hydrocarbons 610/8310 | Volatile Compounds GC/MS 624/8240 | Base/Neu/Acid Compounds GC/MS 625/8270 | Total Organic Carbon (TOC) 415/9060 | Total Organic Halides (TOX) 9020 | Petroleum Hydrocarbons 418.1 | TPH/BTEX Modified 8015 | TCLP- Vol., Semi-Vol. Herbicides, Pesticides | TCLP- Metals | RCRA Metals(8) | Priority Pollutant Metals (13) | CAM Metals (18) TTLC/STLC | Flash Point | Corrosivity | Reactivity | Oil & Grease | Cyanide Total/Amenable | Chemical Oxygen Demand (COD) | Number of Containers |
| 9601161015 | H2O | MU-11 | | 3 | | | | | | | | | | | | | | | | | | | | | 5 |
| 9601161100 | H2O | Rinsate #1 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161110 | H2O | Rinsate #2 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161200 | H2O | MU-13 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161245 | H2O | MU-12 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161330 | H2O | MU-20 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161216 | H2O | MU-2 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161400 | H2O | MU-19 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161430 | H2O | MU-18 | | 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 9601161455 | H2O | Trip Blank | | 2 | | | | | | | | | | | | | | | | | | | | | 2 |
| Project Information | | | Sample Receipt | | | | | | | | | | | | | | | | | | | | | | |
| Project: <u>GPM 105 Plant</u> | | | Total No. of Containers | | | | | | | | | | | | | | | | | | | | | | |
| Project Director: <u>Mike Selice</u> | | | Chain of Custody Seals | | | | | | | | | | | | | | | | | | | | | | |
| Charge Code No: <u>3023.002</u> | | | Rec'd Good Condition/Cold | | | | | | | | | | | | | | | | | | | | | | |
| Shipping ID. No. <u>Fdx</u> | | | Conforms to Record | | | | | | | | | | | | | | | | | | | | | | |
| Via: <u>4539383564</u> | | | Lab No. | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/Comments: <u>for results to GCL Midland</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 015 682 0028 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By <u>David Lee</u> 11/17/96 | | | Relinquished By <u>David Meyer</u> 11/18/96 | | | | | | | | | | | | | | | | | | | | | | |
| Signature <u>David Lee</u> | | | Signature <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) <u>David Lee</u> | | | (Printed Name) <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Date) <u>11/17/96</u> | | | (Date) <u>11/18/96</u> | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | |
| (Signature) | | | (Signature) | | | | | | | | | | | | | | | | | | | | | | |
| (Printed Name) | | | (Printed Name) | | | | | | | | | | | | | | | | | | | | | | |
| (Date) | | | (Date) | | | | | | | | | | | | | | | | | | | | | | |
| Received By <u>David Meyer</u> | | | Received By <u>David Meyer</u> | | | | | | | | | | | | | | | | | | | | | | |
| Company <u>GCL</u> | | | | | | | | | | | | | | | | | | | | | | | | | |



| | 7/93 | 4/94 | 5/94 | 7/94 |
|---|------|------|------|------|
| B | 170 | 2520 | 6.6 | 4.7 |
| T | 65 | 260 | 2.4 | 1.1 |
| E | 36 | <100 | <1 | <1 |
| X | 48 | <300 | 7.1 | <3 |

| | 3/95 | 10/95 |
|---|------|-------|
| B | <1 | <1 |
| T | <1 | <1 |
| E | <1 | <1 |
| X | <3 | <1 |

| | 7/93 | 4/94 | 5/94 | 7/94 |
|---|-------|------|------|------|
| B | 37000 | 6.6 | 517 | 77.7 |
| T | 5000 | <1 | 52 | 51.1 |
| E | <2000 | <1 | <1 | <1 |
| X | <6000 | <3 | <3 | 10.5 |

| | 7/93 |
|---|------|
| B | 190 |
| T | 130 |
| E | 10 |
| X | 46 |

- LEGEND**
- MONITOR WELL
 - MONITOR WELL SAMPLED ANNUALLY
 - SUPPLY WELL
 - ▲ MONITOR WELL SAMPLED QUARTERLY
 - ▣ MONITOR WELL SAMPLED SEMI-ANNUALLY
 - RECOVERY WELL SAMPLED ANNUALLY
 - ⊙ PRODUCT RECOVERY WELL
 - ⊖ INJECTION WELL
 - ⊕ VAPOR EXTRACTION/RECOVERY WELL
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - ND NO DETECTION
 - NS NOT SAMPLED BECAUSE PRODUCT PRESENT IN WELL
 - * SAMPLING FOR TPH DISCONTINUED

NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER (ppb) UNLESS OTHERWISE STATED. WELLS CONTAINING FREE-PHASE HYDROCARBONS ARE NOT SAMPLED.

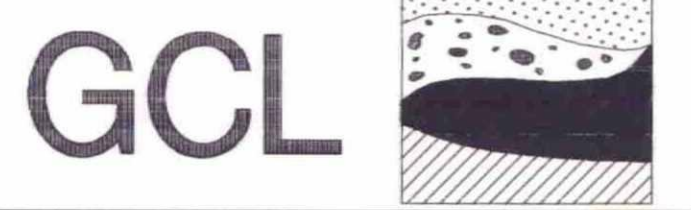
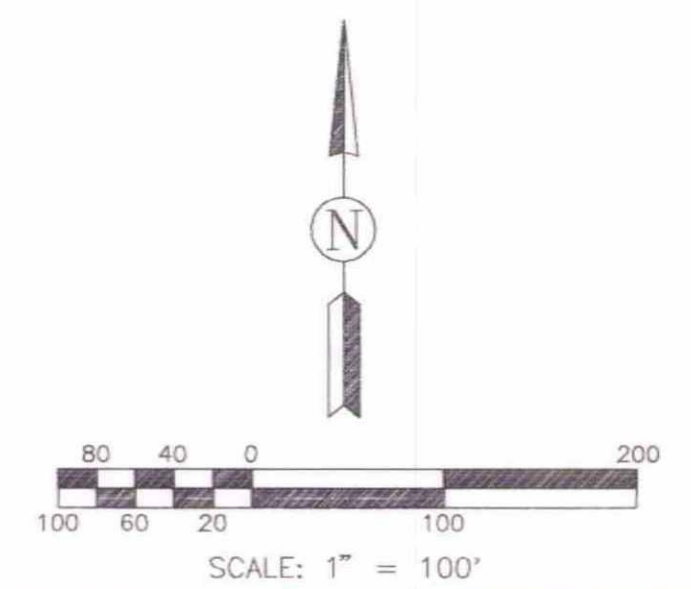


PLATE 1
ANALYTICAL RESULTS (ppb)
LEE PLANT

CLIENT: GPM GAS CORPORATION
 DATE: JANUARY 16, 1996
 CHECKED BY: GJV
 DRAWN BY: MPO22996
 DWG. NO. BTEXV10.DWG

ATTACHMENT A

TABLE 1

TABLE 1

Second Quarter Analytical Results - Lee Plant
Samples Obtained on April 25, 1996

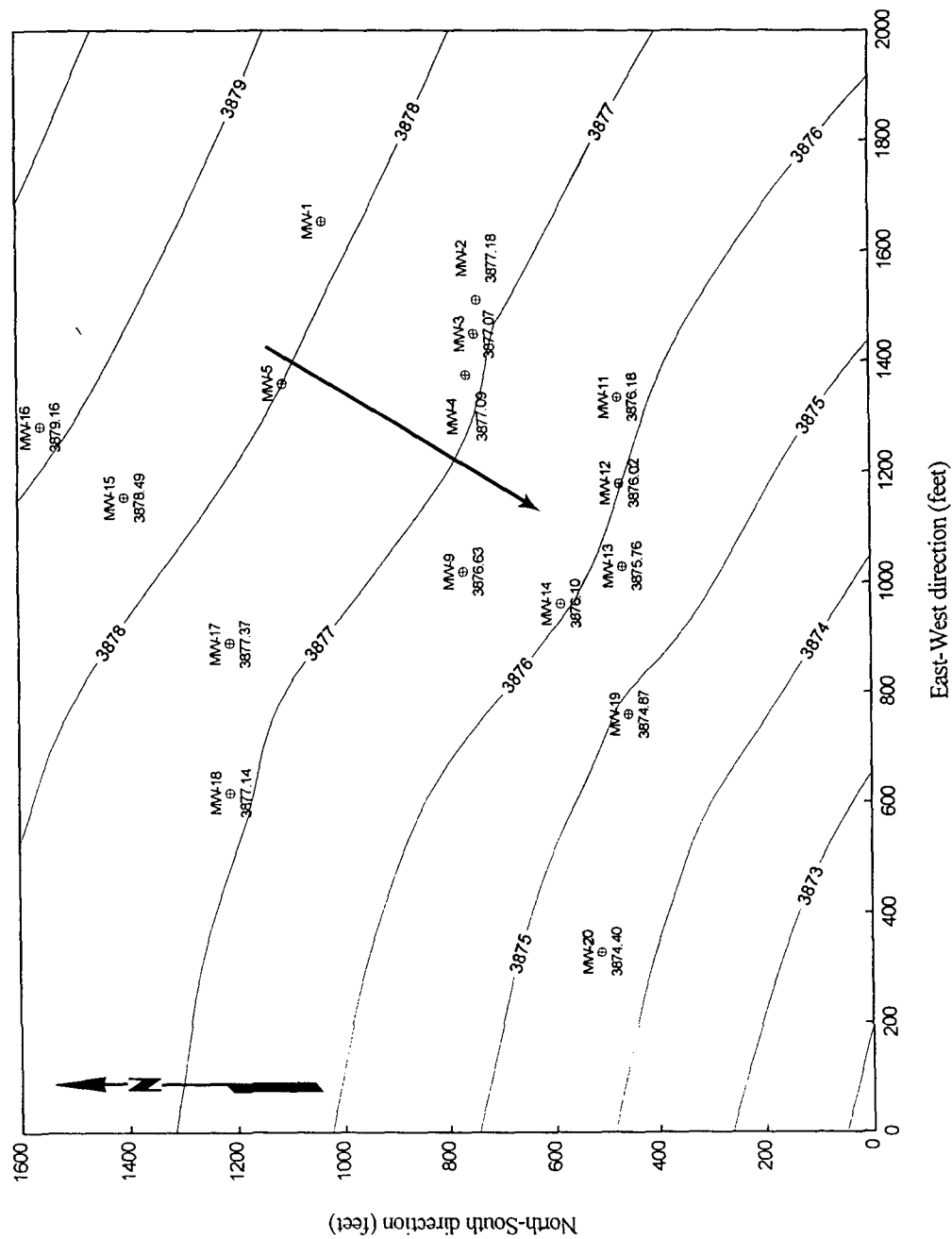
| | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Xylenes (mg/l) |
|---------------------------|-------------------|-------------------|------------------------|-------------------|
| WQCC Standards | 0.010 | 0.750 | 0.750 | 0.620 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-12 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-13 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-19 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-20 | <0.001 | <0.001 | <0.001 | <0.001 |
| REMEDIATION SYSTEM | | | | |
| MW-21 | 0.001 | <0.001 | <0.001 | <0.001 |
| MW-22 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-14 | 2.220 | <0.010 | 0.049 | <0.010 |
| Detection Limit | 0.001 | 0.001 | 0.001 | 0.001 |
| Trip Blank | <0.001 | <0.001 | <0.001 | <0.001 |
| Rinsate #1 | <0.001 | <0.001 | <0.001 | <0.001 |
| Duplicate (MW-21) | 0.001 | <0.001 | <0.001 | <0.001 |

ATTACHMENT B

FIGURES

GPM Lee Plant April 1996 Water Level Contour

(Groundwater Elevation in feet AMSL)



ATTACHMENT C
LABORATORY ANALYTICAL REPORTS



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

ANALYTICAL REPORT

DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

Included in this data package are the analytical results for the sample group which you have submitted to Inchcape Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Any deviations from these protocols or observations of interest are detailed in an accompanying Case Narrative. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (214) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus
General Manager



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-1

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW Suite 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid

ID MARKS : 9604250830 MW-11

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 25-APR-1996

ANALYSIS METHOD : EPA 8020 /1

ANALYZED BY : VHT

ANALYZED ON : 30-APR-1996

DILUTION FACTOR : 1

METHOD FACTOR : 1

QC BATCH NO : 34-043096

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 103 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-2

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW Suite 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid

ID MARKS : 9604250945 MW-12

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 25-APR-1996

ANALYSIS METHOD : EPA 8020 /1

ANALYZED BY : VHT

ANALYZED ON : 30-APR-1996

DILUTION FACTOR : 1

METHOD FACTOR : 1

QC BATCH NO : 34-043096

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 | µg/L |
| BTEX (total) | | | < | 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 102 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-3

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9604251015 MW-13
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 25-APR-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 30-APR-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-043096

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 103 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.

DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-4

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW Suite 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid

ID MARKS : 9604251050 MW-19

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 25-APR-1996

ANALYSIS METHOD : EPA 8020 /1

ANALYZED BY : VHT

ANALYZED ON : 1-MAY-1996

DILUTION FACTOR : 1

METHOD FACTOR : 1

QC BATCH NO : 30-043096A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 µg/L |
| BTEX (total) | | | < | 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 95.2 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-5

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9604251145 MW-20
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 25-APR-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 1-MAY-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-043096A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 95.4 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.

DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-6

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
 ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
 ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
 ID MARKS : 9604251230 MW-22
 PROJECT : GPM Buckeye
 PURCHASE ORDER NO : 3023-002
 DATE SAMPLED : 25-APR-1996
 ANALYSIS METHOD : EPA 8020 /1
 ANALYZED BY : VHT
 ANALYZED ON : 1-MAY-1996
 DILUTION FACTOR : 1
 METHOD FACTOR : 1
 QC BATCH NO : 30-043096A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 95.3 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-7

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9604251300 MW-21
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 25-APR-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 1-MAY-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-043096A

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | 1.2 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 1.0 µg/L | < 1.0 µg/L |
| BTEX (total) | | 1.2 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 96.8 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.

DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-8

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
 ADDRESS : 505 Marquette NW Suite 1100
 : Albuquerque, NM 87102
 ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
 ID MARKS : 9604251330 MW-21D
 PROJECT : GPM Buckeye
 PURCHASE ORDER NO : 3023-002
 DATE SAMPLED : 25-APR-1996
 ANALYSIS METHOD : EPA 8020 /1
 ANALYZED BY : VHT
 ANALYZED ON : 1-MAY-1996
 DILUTION FACTOR : 1
 METHOD FACTOR : 1
 QC BATCH NO : 34-043096A

| BTEX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | 1.2 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Xylenes | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| BTEX (total) | | 1.2 $\mu\text{g/L}$ # |

| QUALITY CONTROL DATA | | |
|----------------------|----------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 $\mu\text{g/L}$ | 96.7 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-9

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9604251410 Rinsate
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 25-APR-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 1-MAY-1996
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 34-043096A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 96.8 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-10

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid
ID MARKS : 9604251500 MW-14
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 25-APR-1996
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 1-MAY-1996
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : 30-043096A

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|------|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 10 | µg/L | 2220 | µg/L | |
| Toluene | 10 | µg/L | < 10 | µg/L | |
| Ethyl benzene | 10 | µg/L | 49 | µg/L | |
| Xylenes | 10 | µg/L | < 10 | µg/L | |
| BTEX (total) | | | 2270 | µg/L | # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 82.5 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



DATE RECEIVED : 26-APR-1996

REPORT NUMBER : D96-4452-11

REPORT DATE : 2-MAY-1996

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW Suite 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Liquid

ID MARKS : Trip Blank

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 25-APR-1996

ANALYSIS METHOD : EPA 8020 /1

ANALYZED BY : VHT

ANALYZED ON : 1-MAY-1996

DILUTION FACTOR : 1

METHOD FACTOR : 1

QC BATCH NO : 30-043096A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|--------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | < 1.0 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 94.9 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.

REPORT DATE : 21-JUN-1996

REPORT NUMBER : D96-4452

SAMPLE SUBMITTED BY : GCL

ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Ethylbenzene | Benzene | Ethylbenzene | Benzene |
|-----------------|-----------|--------------|------------|--------------|------------|
| BATCH NO. | 34-043096 | 34-043096 | 30-043096A | 30-043096A | 34-043096A |
| LCS LOT NO. | AB709-4A | AB709-4A | AB709-4A | AB709-4A | AB709-4A |
| PREP METHOD | --- | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| ANALYZED BY | VHT | VHT | VHT | VHT | VHT |
| UNITS | µg/L | µg/L | µg/L | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 1.00 | < 1.00 |
| SPIKE LEVEL | 500 | 500 | 500 | 500 | 500 |
| MS RESULT | 524 | 525 | 491 | 474 | 498 |
| MS RECOVERY % | 105 | 105 | 98.2 | 94.8 | 99.6 |
| MSD RESULT | 512 | 513 | 480 | 463 | 538 |
| MSD RECOVERY % | 102 | 103 | 96.0 | 92.6 | 108 |
| MS/MSD RPD % | 2.32 | 2.31 | 2.27 | 2.35 | 7.72 |
| BS RESULT | NA | NA | NA | NA | NA |
| BS RECOVERY % | NA | NA | NA | NA | NA |
| BSD RESULT | NA | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA | NA |
| BS/BSR RPD % | NA | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA | NA |
| LCS LEVEL | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| LCS RESULT | 52.8 | 53.1 | 49.2 | 46.8 | 49.4 |
| LCS RECOVERY % | 106 | 106 | 98.4 | 93.6 | 98.8 |
| SPIKE SAMPLE ID | 4452-3 | 4452-3 | 4459-6 | 4459-6 | 4503-3 |
| DUP SAMPLE ID | --- | --- | --- | --- | --- |

NA

Not applicable

REPORT DATE : 21-JUN-1996

REPORT NUMBER : D96-4452

SAMPLE SUBMITTED BY : GCL

ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| | |
|-----------------|--------------|
| ANALYTE | Ethylbenzene |
| BATCH NO. | 34-043096A |
| LCS LOT NO. | AB709-4A |
| PREP METHOD | --- |
| PREPARED BY | --- |
| ANALYSIS METHOD | EPA 8020 |
| ANALYZED BY | VHT |
| UNITS | µg/L |
| METHOD BLANK | < 1.00 |
| SPIKE LEVEL | 500 |
| MS RESULT | 499 |
| MS RECOVERY % | 99.8 |
| MSD RESULT | 538 |
| MSD RECOVERY % | 108 |
| MS/MSD RPD % | 7.52 |
| BS RESULT | NA |
| BS RECOVERY % | NA |
| BSD RESULT | NA |
| BSD RECOVERY % | NA |
| BS/BSD RPD % | NA |
| DUPLICATE RPD % | NA |
| LCS LEVEL | 50.0 |
| LCS RESULT | 49.2 |
| LCS RECOVERY % | 98.4 |
| SPIKE SAMPLE ID | 4503-3 |
| DUP SAMPLE ID | --- |

NA

Not applicable



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

No 8626

Chain of Custody

Date 4/25/96 Page 1 of 1

| Lab Name <u>JTS Labs Inc</u> | | Address <u>1089 East Collins Blvd</u> | | Telephone <u>214 238-5591</u> | | Samplers (SIGNATURES) <u>[Signature]</u> | | Analysis Request | | | | | | | | | | | | | | | | | | |
|------------------------------|--------|---------------------------------------|-----------------------------------|--------------------------------|----------------------------------|--|---|--------------------------------------|---|--|-------------------------------------|---------------------------------|---------------------------|---|--------------|--------------------|-----------------------------------|-----------------------------|-------------|-------------|------------|--------------|------------------------|---------------------------------|----------------------|---|
| Sample Number | Matrix | Location | Halogenated Volatiles 601/8010 | Aromatic Volatiles 602/8020 | Phenols, Sub Phenols 604/8040 | Pesticides/PCB 608/8080 | Polynuclear Aromatic Hydrocarbons 610/8310 | Volatile Compounds GC/MS 624/8240 | Base/Neutral Acid Compounds GC/MS 625/8270 | Total Organic Carbon (TOC) 415/9060 | Total Organic Halides (TOX) 9020 | Petroleum Hydrocarbons 418.1 | TPH/BTEX Modified 8015 | TCF - Vol, Semi-Vol Herbicides, Pesticides | TCF - Metals | RCRA Metals (8) | Priority Pollutant Metals (13) | CAM Metals (19) TLC-STLC | Flash Point | Corrosivity | Reactivity | Oil & Grease | Cyanide Total/Amenable | Chemical Oxygen Demand (COD) | Number of Containers | |
| 9604250830 | H2O | MW-11 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 9604250945 | H2O | MW-12 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251015 | H2O | MW-13 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251050 | H2O | MW-19 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251145 | H2O | MW-20 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251230 | H2O | MW-22 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251300 | H2O | MW-21 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251330 | H2O | MW-21d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251410 | H2O | MW-18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 9604251500 | H2O | MW-14 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |

| Project Information | | Sample Receipt | |
|--|-------------|--|---------|
| Project | GPM Buckeye | Total No. of Containers | 1700 |
| Project Director | SEIK | Chain of Custody Seals | 4/25/96 |
| Charge Code No. | 3023-001 | Rec'd Good Condition/Cold | |
| Shipping ID. No. | 7092445054 | Conforms to Record | |
| Via: | Fedex | Lab No. | |
| Relinquished By <u>[Signature]</u> <u>DAVID NEE</u> <u>4/25/96</u> | | Relinquished By <u>[Signature]</u> <u>B.W. Wilson</u> <u>4-26-96</u> | |
| Received By <u>[Signature]</u> <u>GCL</u> | | Received By <u>[Signature]</u> <u>B.W. Wilson</u> | |
| Relinquished By <u>[Signature]</u> <u>DAVID NEE</u> <u>4/25/96</u> | | Relinquished By <u>[Signature]</u> <u>B.W. Wilson</u> <u>4-26-96</u> | |
| Received By <u>[Signature]</u> <u>GCL</u> | | Received By <u>[Signature]</u> <u>B.W. Wilson</u> | |

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RADIOACTIVITY

Distribution: White, Canary Laboratory - Pink, GCL



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No 8629

Chain of Custody

Date 4/25/96 Page 1 of 1

| Lab Name | | Address | | Telephone | | Sample Number | | Matrix | | Location | | Number of Containers | |
|--------------------------------|--|---------------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|
| ITS Labs Inc | | 4089 East Collins Blvd | | Richardson TX 75081 | | 900425415 | | H2O | | Tripband | | 1 | |
| Samplers (SIGNATURES) | | D [Signature] | | | | | | | | | | | |
| Project Information | | Sample Receipt | | Relinquished By | | Relinquished By | | Relinquished By | | Relinquished By | | Relinquished By | |
| Project GPM Buckeye | | Total No. of Containers | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | |
| Project Director Selke | | Chain of Custody Seals | | (Printed Name) | | (Printed Name) | | (Printed Name) | | (Printed Name) | | (Printed Name) | |
| Charge Code No. 3023-002 | | Rec'd Good Condition/Cold | | (Date) | | (Date) | | (Date) | | (Date) | | (Date) | |
| Shipping ID. No. | | Conforms to Record | | (Company) | | (Company) | | (Company) | | (Company) | | (Company) | |
| 7092445054 | | Lab No. | | Received By | | Received By | | Received By | | Received By | | Received By | |
| Via: Fed X | | | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | | Signature [Signature] | |
| Special Instructions/Comments: | | | | (Printed Name) | | (Printed Name) | | (Printed Name) | | (Printed Name) | | (Printed Name) | |
| | | | | (Date) | | (Date) | | (Date) | | (Date) | | (Date) | |
| | | | | (Company) | | (Company) | | (Company) | | (Company) | | (Company) | |



GPM GAS CORPORATION

4044 PENBROOK
ODESSA, TX 79762

April 6, 1996

Mr. William Olson
Hydrogeologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
State Land Office Building
Santa Fe, New Mexico 87505

**RE: FIRST QUARTER 1996 ANALYTICAL RESULTS
LEE PLANT, DISCHARGE PLAN GW-2
LEA COUNTY, NEW MEXICO**

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the first quarter of 1996 (see attached analytical results, report date October 13, 1995). Sample collection was conducted on January 16, 1996, pursuant to the NMOCDD Discharge Plan GW-2 requirements. Samples were collected by GCL, our consultant.

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A groundwater level contour map for the January event is provided as an attachment. The average daily pumping rates in gallons per day (gpd) from the remediation system recovery wells for the months of January and February 1996 are as follows: RW-1 (1118 gpd), MW-6 (84 gpd), MW-7 (84 gpd), and MW-10 (880 gpd). Due to the failure of the packer in the injection well (MW-23), injection was discontinued on January 15, 1996, and the packer removed from the well. BTEX concentrations in MW-21 and MW-22 will be monitored semi-annually to determine when injection operations will be resumed, if necessary.

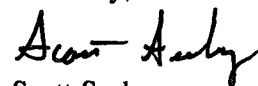
Quarterly groundwater sampling was conducted at five down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), and at three cross-gradient wells (MW-2, MW-17, and MW-18). To prevent the potential for cross-contamination, the monitoring wells were first purged with a Grundfos Redi-Flow 2 pump. After purging approximately 50 gallons from each sampled well, a dedicated disposable bailer was used to collect the sample for laboratory analysis. All samples were submitted to NDRC Laboratories, Inc., Houston, Texas, following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the eight wells were analyzed for dissolved aromatic hydrocarbons using EPA Method 602.

Table 1 summarizes the first quarter 1996 analytical results. A site map of the plant which lists the historical analytical results from January 1992 to present is provided in Plate 1. A discussion of the field data and analytical results is provided below.

- A heavy sheen (< 0.01 ft.) of free-phase floating product was encountered in MW-4 during the January 16, 1996 sampling event. This indicates a continued decrease in floating product thickness in this monitoring well since the May 1995 (0.95 ft.) and August 1995 (0.01 ft.) sampling events.
- MW-5 contained product at a thickness of 4.08 ft on the January 16, 1996 sampling event which is consistent with previous measurements.
- A heavy sheen (< 0.01 ft.) of product was also encountered in MW-15. This is a decrease from the previous sampling event in October 1995 in which a thickness of 0.03 feet was measured. Free-phase floating product was not observed prior to the August 1995 sampling event.
- Analytical results from the laboratory indicate the BTEX concentrations in all down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), and cross-gradient wells MW-2, MW-17, and MW-18 are below 0.001 mg/l.
- The analytical results for the downgradient wells have been below WQCC standards, and in most cases also below the laboratory detection limits for the last four to eight quarters.

GPM has tentatively scheduled the second quarter sampling event at the Lee Plant to take place in April or May of this year in conjunction with sampling activities at the Linam Ranch Plant and Monument Booster Station. We will notify your office and the OCD Hobbs District Office at least one week prior to conducting the next sampling event. Please call me at (915) 368-1142 if you have any questions.

Sincerely,



Scott Seeby
Environmental Engineer
New Mexico Region

attachments

cc: M.S. Nault, GPM-Linam Ranch Plant, NM
Jerry Sexton, OCD-Hobbs, NM
Gilbert Van Deventer, GCL-Midland, TX

D:\3023\1STQTR96.LTR

ATTACHMENTS

ATTACHMENT A

TABLE 1

TABLE 1

First Quarter Analytical Results - Lee Plant
Samples Obtained on January 16, 1996

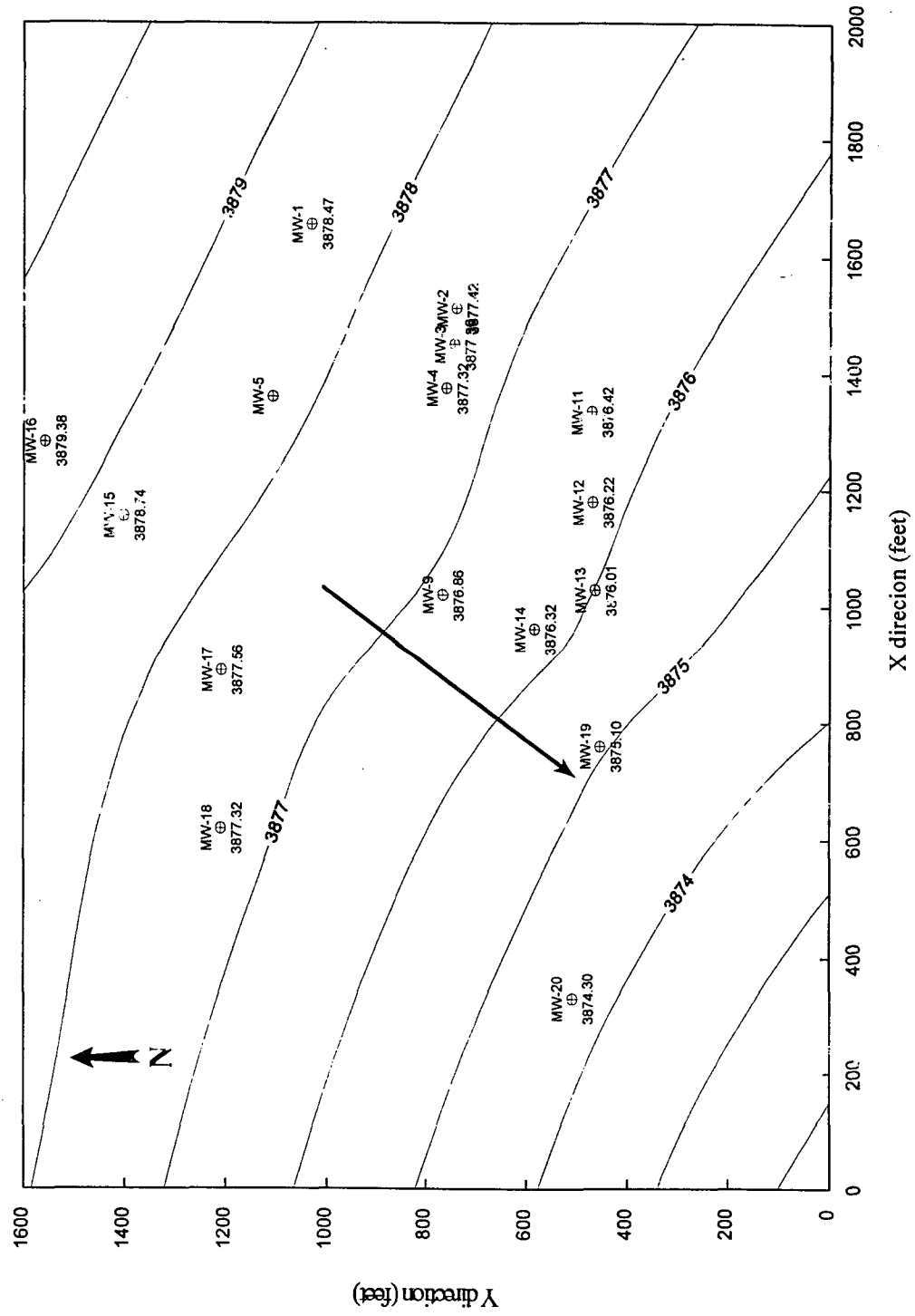
| | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Xylenes (mg/l) |
|-----------------------|-------------------|-------------------|------------------------|-------------------|
| WQCC Standards | 0.010 | 0.750 | 0.750 | 0.620 |
| CROSS-GRADIENT | | | | |
| MW-2 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-17 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-18 | <0.001 | <0.001 | <0.001 | <0.001 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-12 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-13 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-19 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-20 | <0.001 | <0.001 | <0.001 | <0.001 |
| Detection Limit | 0.001 | 0.001 | 0.001 | 0.001 |
| Trip Blank | <0.001 | <0.001 | <0.001 | <0.001 |
| Rinsate #1 | <0.001 | <0.001 | <0.001 | <0.001 |
| Rinsate #2 | <0.001 | <0.001 | <0.001 | <0.001 |

ATTACHMENT B

FIGURES

GPM Lee Plant January 1996 Water Level Contour

(Groundwater Elevation in feet AMSL)



If you have any questions concerning this extension, contact Dave Boyer
at (505) 827-5812.

Sincerely,

A handwritten signature in cursive script, appearing to read "R. L. Stamets", followed by a large, stylized number "6".

R. L. STAMETS
Director

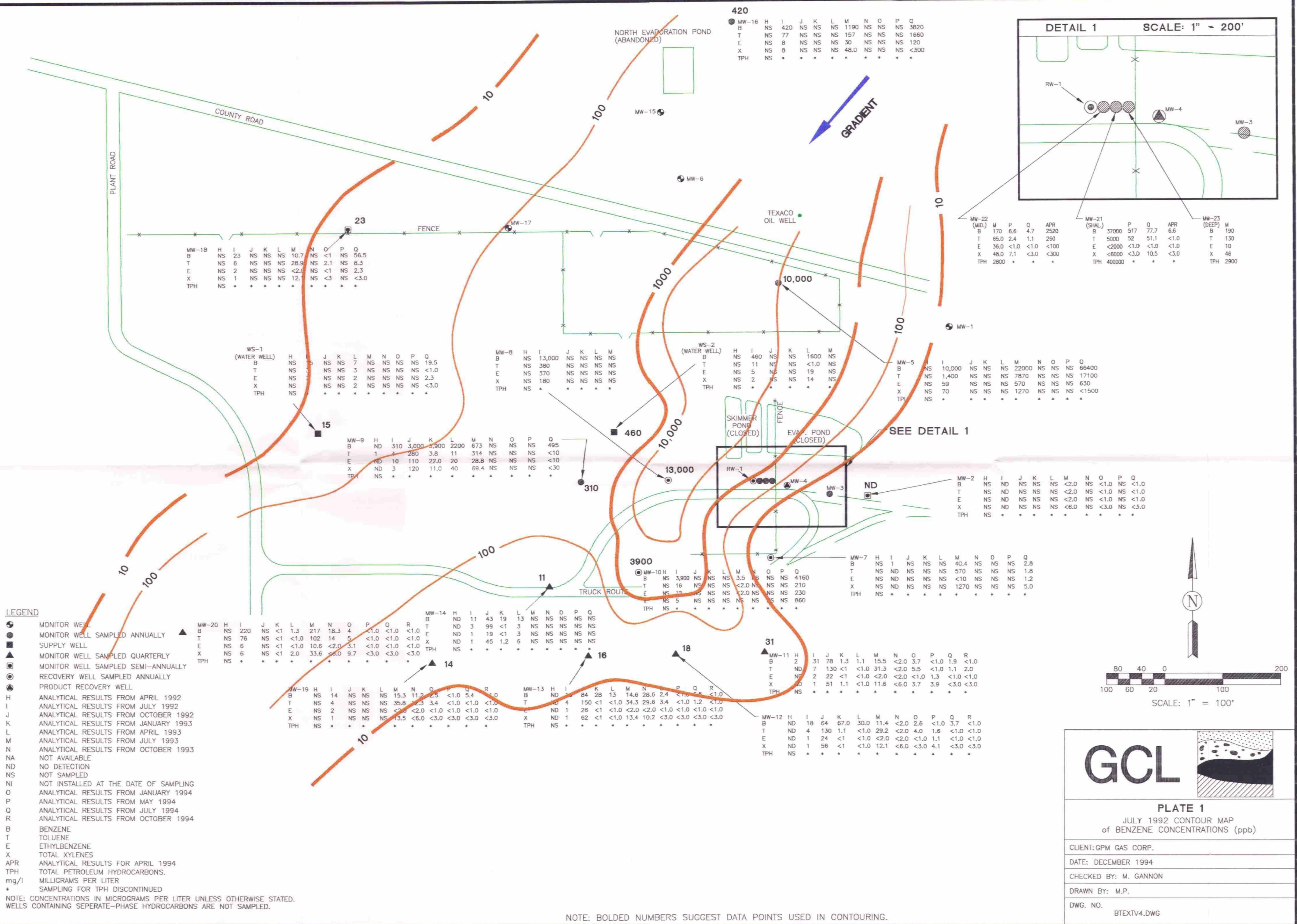
RLS/DB/dp

cc: Artesia District Office

LEGEND

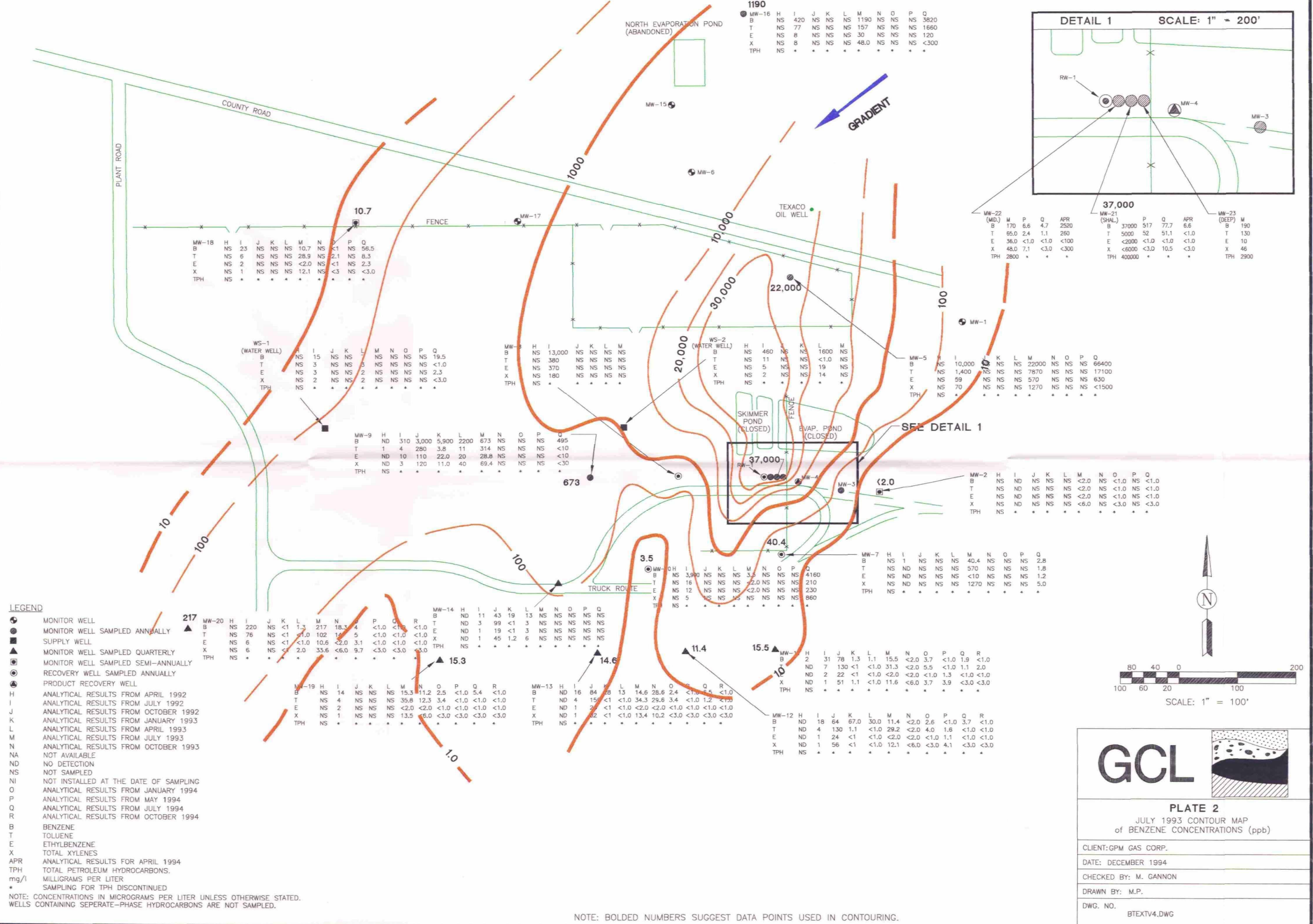
MONITOR WELL
 MONITOR WELL SAMPLED ANNUALLY
 SUPPLY WELL
 MONITOR WELL SAMPLED QUARTERLY
 MONITOR WELL SAMPLED SEMI-ANNUALLY
 RECOVERY WELL SAMPLED ANNUALLY
 PRODUCT RECOVERY WELL
 H ANALYTICAL RESULTS FROM APRIL 1992
 I ANALYTICAL RESULTS FROM JULY 1992
 J ANALYTICAL RESULTS FROM OCTOBER 1992
 K ANALYTICAL RESULTS FROM JANUARY 1993
 L ANALYTICAL RESULTS FROM APRIL 1993
 M ANALYTICAL RESULTS FROM JULY 1993
 N ANALYTICAL RESULTS FROM OCTOBER 1993
 NA NOT AVAILABLE
 ND NO DETECTION
 NS NOT SAMPLED
 NI NOT INSTALLED AT THE DATE OF SAMPLING
 O ANALYTICAL RESULTS FROM JANUARY 1994
 P ANALYTICAL RESULTS FROM MAY 1994
 Q ANALYTICAL RESULTS FROM JULY 1994
 R ANALYTICAL RESULTS FROM OCTOBER 1994
 B BENZENE
 T TOLUENE
 E ETHYLBENZENE
 X TOTAL XYLENES
 APR ANALYTICAL RESULTS FOR APRIL 1994
 TPH TOTAL PETROLEUM HYDROCARBONS.
 mg/l MILLIGRAMS PER LITER
 * SAMPLING FOR TPH DISCONTINUED
 NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER UNLESS OTHERWISE STATED.
 WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.

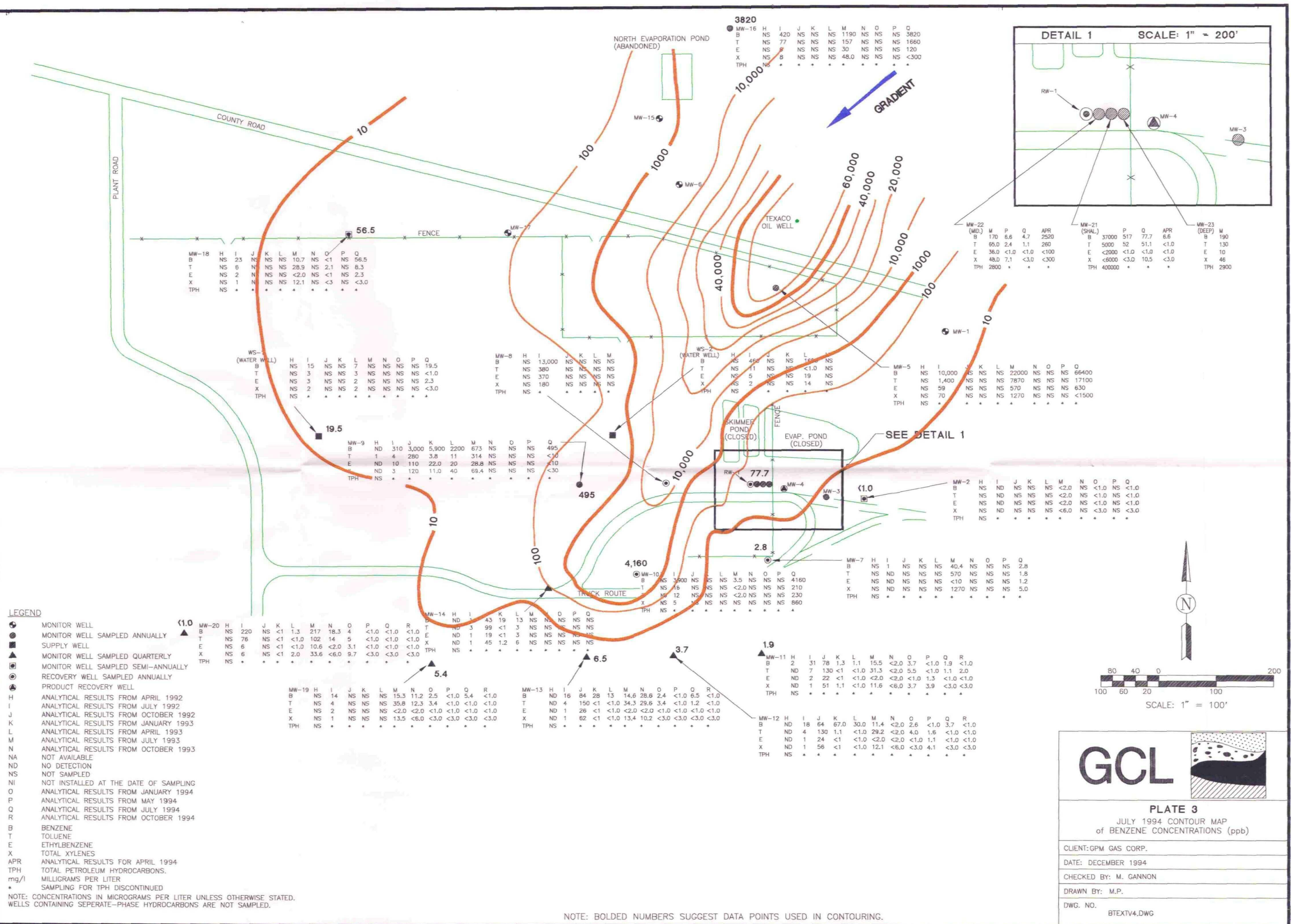
NOTE: BOLDED NUMBERS SUGGEST DATA POINTS USED IN CONTOURING.



LEGEND

- MONITOR WELL
 - MONITOR WELL SAMPLED ANNUALLY
 - ▲ SUPPLY WELL
 - ▲ MONITOR WELL SAMPLED QUARTERLY
 - MONITOR WELL SAMPLED SEMI-ANNUALLY
 - RECOVERY WELL SAMPLED ANNUALLY
 - PRODUCT RECOVERY WELL
 - H ANALYTICAL RESULTS FROM APRIL 1992
 - I ANALYTICAL RESULTS FROM JULY 1992
 - J ANALYTICAL RESULTS FROM OCTOBER 1992
 - K ANALYTICAL RESULTS FROM JANUARY 1993
 - L ANALYTICAL RESULTS FROM APRIL 1993
 - M ANALYTICAL RESULTS FROM JULY 1993
 - N ANALYTICAL RESULTS FROM OCTOBER 1993
 - NA NOT AVAILABLE
 - ND NO DETECTION
 - NS NOT SAMPLED
 - NI NOT INSTALLED AT THE DATE OF SAMPLING
 - O ANALYTICAL RESULTS FROM JANUARY 1994
 - P ANALYTICAL RESULTS FROM MAY 1994
 - Q ANALYTICAL RESULTS FROM JULY 1994
 - R ANALYTICAL RESULTS FROM OCTOBER 1994
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - APR ANALYTICAL RESULTS FOR APRIL 1994
 - TPH TOTAL PETROLEUM HYDROCARBONS, mg/l
 - * SAMPLING FOR TPH DISCONTINUED
- NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER UNLESS OTHERWISE STATED.
WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.







GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

December 29, 1995

Mr. William Olson
Hydrogeologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
State Land Office Building
Santa Fe, New Mexico 87505

RECEIVED

MAR 25 1996

Environmental Bureau
Oil Conservation Division

**RE: FOURTH QUARTER 1995 ANALYTICAL RESULTS
 LEE PLANT, DISCHARGE PLAN GW-2
 LEA COUNTY, NEW MEXICO**

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the fourth quarter of 1995 (see attached analytical results, report date October 13, 1995). Sample collection was conducted on October 10, 1995, pursuant to the NMOCD Discharge Plan GW-2 requirements. Samples were collected by GCL, our consultant.

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A groundwater level contour map for the October event is provided as an attachment. The average daily pumping rates in gallons per day (gpd) from the remediation system recovery wells for the fourth quarter of 1995 are as follows: RW-1 (1407 gpd), MW-6 (144 gpd), MW-7 (441 gpd), and MW-10 (879 gpd).

Quarterly groundwater sampling was conducted at five down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), and at two wells (MW-21 and MW-22) located adjacent to recovery well RW-1 near the source area. To prevent the potential for cross-contamination, the monitoring wells were first purged with a Grundfos Redi-Flow 2 pump. After purging approximately 50 gallons from each sampled well, a dedicated disposable bailer was used to collect the sample for laboratory analysis. In addition, downgradient wells were sampled prior to sampling upgradient and cross-gradient wells. All samples were submitted to NDRC Laboratories, Inc., Houston, Texas, following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the seven wells were analyzed for dissolved aromatic hydrocarbons using EPA Method 602.

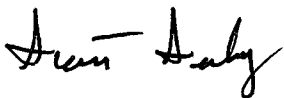
Table 1 summarizes the fourth quarter 1995 analytical results. A site map of the plant which lists the historical analytical results from January 1992 to present is provided in Plate 1. A discussion of the field data and analytical results is provided below.

Mr. William Olson
December 29, 1995
Page 2

- A heavy sheen (< 0.01 ft.) of product was encountered in MW-4 indicating a continued decrease from the May 1995 (0.95 ft.) and August 1995 (0.01 ft.) sampling events.
- MW-5 contained product at a thickness of 4.06 ft on the day of the October sampling which is consistent with previous measurements.
- Free-phase floating product was also encountered in MW-15 at a thickness of 0.03 ft. Free-phase floating product was not observed prior to the August 1995 sampling event.
- Analytical results from the laboratory indicate the BTEX concentrations in all down-gradient wells, MW-11, MW-12, MW-13, MW-19, and MW-20, are below the laboratory detection limits (< 0.001 mg/l).
- Analytical results for samples from wells MW-21 and MW-22 indicate a continued significant decrease in BTEX concentrations since July 1993. The BTEX levels are below the laboratory detection limits for each constituent with the exception of a 0.0915 mg/l concentration for benzene in MW-21.

GPM will conduct the fourth quarter sampling event at the Lee Plant in January of this year. At that time, we will continue to monitor the free-phase product in MW-4, MW-5, and MW-15. Please call me at (915) 368-1085 if you have any questions.

Sincerely,



Scott Seeby
Environmental Analyst
Safety and Environmental Group

attachments

cc: M.S. Nault, GPM-Linam Ranch Plant, NM
Jerry Sexton, OCD-Hobbs, NM
Gilbert Van Deventer, GCL-Midland, TX

ATTACHMENTS

ATTACHMENT A

TABLE 1

TABLE 1

Fourth Quarter Analytical Results: Lee Plant

October 10, 1995

| | Benzene mg/l | Toluene mg/l | Ethylbenzene mg/l | Xylenes mg/l |
|---------------------------|-----------------|-----------------|----------------------|-----------------|
| WQCC Standards | 0.010 | 0.750 | 0.750 | 0.620 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-12 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-13 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-19 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Duplicate MW-19 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| MW-20 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Trip Blank | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| REMEDIATION SYSTEM | | | | |
| MW-21 | 0.0915 | <0.0010 | <0.0010 | <0.0010 |
| MW-22 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |

Values shown in bold are above WQCC Standards

Well screen for MW-21 (shallow) located within upper 10 feet of aquifer (95 to 115 feet bgs).

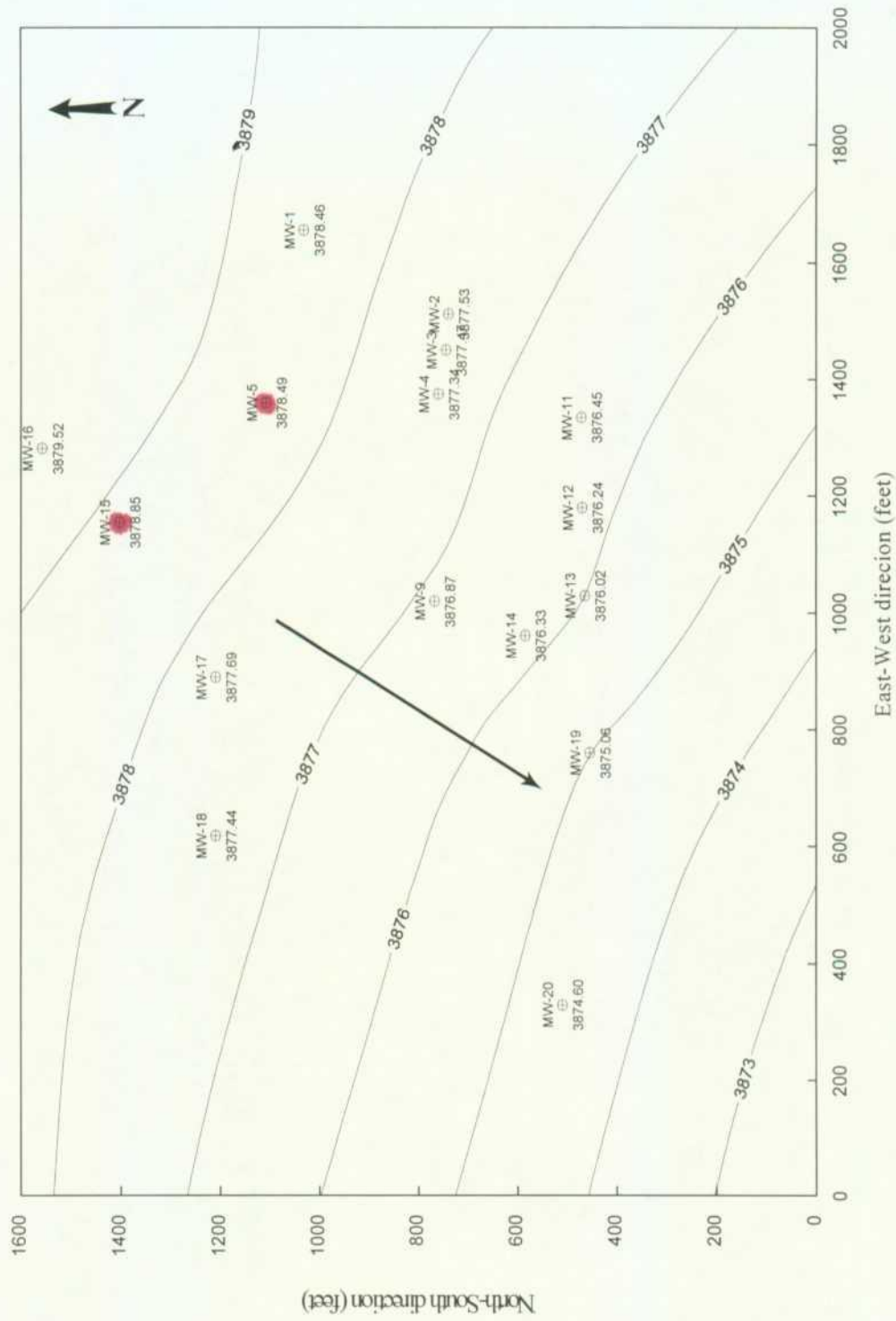
Well screen for MW-22 located from 30 to 35 feet below top of aquifer (135 to 140 feet bgs).

G:\3023\LEE\4THDQRT95.WQ2

ATTACHMENT B
FIGURES

GPM Lee Plant October 1995 Water Level Contour

(Groundwater Elevation in feet AMSL)



ATTACHMENT C

LABORATORY ANALYTICAL REPORTS



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee
PROJECT : GPM

Included in this data package are the analytical results for the sample group which you have submitted to Inchcape Testing Services for analysis.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Any deviations from these protocols or observations of interest are detailed in an accompanying Case Narrative.

If you have any questions regarding this report and its associated materials please call your Project Manager at (214) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus
General Manager



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-1

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510100930 MW-19
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 13-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 µg/L |
| BTEX (total) | | | < | 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 101 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-2

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510100950 MW-19A
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | |
|----------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 1.0 µg/L | < 1.0 µg/L |
| BTEX (total) | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 102 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

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Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-3
REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101100 MW-20
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 | µg/L |
| BTEX (total) | | | < | 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 101 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-4

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101110 MW-22
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTX ANALYSIS | | |
|----------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 1.0 µg/L | < 1.0 µg/L |
| BTX (total) | | < 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 101 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-5

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101120 MW-21
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|-------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | 91.5 µg/L |
| Toluene | 1.0 | µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 µg/L |
| BTEX (total) | | | 91.5 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 92.8 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-6

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101200 MW-11
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 | µg/L |
| BTEX (total) | | | < | 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 101 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-7

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
: Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101245 MW-12
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|------------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 µg/L |
| BTEX (total) | | | < | 1.0 µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 101 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-8

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101345 MW-13
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 13-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < | 1.0 | µg/L |
| BTEX (total) | | | < | 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 99.9 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 12-OCT-1995

REPORT NUMBER : D95-9975-9

REPORT DATE : 13-OCT-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW Suite 1100
Albuquerque, NM 87102
ATTENTION : David Nee

SAMPLE MATRIX : Liquid
ID MARKS : 9510101255 Trip Blanks
PROJECT : GPM
DATE SAMPLED : 11-OCT-1995
ANALYSIS METHOD : EPA 8020 /1
ANALYZED BY : VHT
ANALYZED ON : 12-OCT-1995
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 30-101295A

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|--------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < 1.0 | µg/L |
| Xylenes | 1.0 | µg/L | < 1.0 | µg/L |
| BTEX (total) | | | < 1.0 | µg/L # |

| QUALITY CONTROL DATA | | |
|----------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene | 50.0 µg/L | 102 % |

Based upon Good Laboratory Practice, the result is rounded to the appropriate number of significant figures.



Inchcape Testing Services

Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT DATE : 16-OCT-1995

REPORT NUMBER : D95-9975

SAMPLE SUBMITTED BY : GCL
ATTENTION : David Nee

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Ethylbenzene |
|-----------------|------------|--------------|
| BATCH NO. | 30-101295A | 30-101295A |
| LCS LOT NO. | AB214-70B | AB214-70B |
| PREP METHOD | --- | --- |
| PREPARED BY | --- | --- |
| ANALYSIS METHOD | EPA 8020 | EPA 8020 |
| ANALYZED BY | VHT | VHT |
| UNITS | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 |
| SPIKE LEVEL | 500 | 500 |
| MS RESULT | 418 | 393 |
| MS RECOVERY % | 83.6 | 78.6 |
| MSD RESULT | 426 | 421 |
| MSD RECOVERY % | 85.2 | 84.2 |
| MS/MSD RPD % | 1.90 | 6.88 |
| BS RESULT | NA | NA |
| BS RECOVERY % | NA | NA |
| BSD RESULT | NA | NA |
| BSD RECOVERY % | NA | NA |
| BS/BSD RPD % | NA | NA |
| DUPLICATE RPD % | NA | NA |
| LCS LEVEL | 50.0 | 50.0 |
| LCS RESULT | 44.6 | 44.7 |
| LCS RECOVERY % | 89.2 | 89.4 |
| SPIKE SAMPLE ID | 9906-11 | 9906-11 |
| DUP SAMPLE ID | --- | --- |

NA

Not applicable

| MW-18 | | | | |
|---------------------|-----|------|----|----|
| 7/92 7/93 | | | | |
| B | 23 | 10.7 | | |
| T | 6 | 28.9 | | |
| E | 2 | <2 | | |
| X | 1 | 12.1 | | |
| 1/94 7/94 3/95 8/95 | | | | |
| B | <1 | 56.5 | <1 | <1 |
| T | 2.1 | 8.3 | 2 | <1 |
| E | <1 | 2.3 | <1 | <1 |
| X | <3 | <3 | <3 | <3 |

| WS-1 (WATER WELL) | | | | |
|---------------------|-----|----|---|------|
| 1/92 7/92 4/93 7/94 | | | | |
| B | 110 | 15 | 7 | 19.5 |
| T | 20 | 3 | 3 | <1 |
| E | 20 | 3 | 2 | 2.3 |
| X | 10 | 2 | 2 | <3 |

| MW-8 | |
|------|-------|
| 7/92 | |
| B | 13000 |
| T | 580 |
| E | 370 |
| X | 180 |

| WS-2 (WATER WELL) | | | | |
|-------------------|----|-----|------|--|
| 1/92 7/92 4/93 | | | | |
| B | 10 | 460 | 1600 | |
| T | ND | 11 | <1 | |
| E | ND | 5 | 19 | |
| X | ND | 2 | 14 | |

| MW-17 | |
|-------|----|
| 3/95 | |
| B | 62 |
| T | 20 |
| E | 4 |
| X | 10 |

| MW-9 | | | | | |
|----------------------|------|------|------|------|--|
| 1992 JAN APR JUL OCT | | | | | |
| B | <1 | <1 | 310 | 3000 | |
| T | 3 | 1 | 4 | 280 | |
| E | 5 | <1 | 10 | 110 | |
| X | <1 | <1 | 3 | 120 | |
| 1993 JAN APR JUL OCT | | | | | |
| B | 5900 | 2200 | 673 | | |
| T | 3.8 | 11 | 314 | | |
| E | 22 | 20 | 28.8 | | |
| X | 11 | 40 | 69.4 | | |
| 7/94 8/95 | | | | | |
| B | 495 | 5860 | | | |
| T | <10 | <2.5 | | | |
| E | <10 | <2.5 | | | |
| X | <30 | <7.5 | | | |

| MW-20 | | | | |
|----------------------|-----|-----|------|------|
| 1992 JAN APR JUL OCT | | | | |
| B | ND | 220 | | |
| T | ND | 76 | | |
| E | ND | 6 | | |
| X | ND | 6 | | |
| 1993 JAN APR JUL OCT | | | | |
| B | <1 | 1.3 | 217 | 18.3 |
| T | <1 | <1 | 102 | 14 |
| E | <1 | <1 | 10.6 | <2 |
| X | <1 | 2.0 | 33.6 | <6 |
| 1994 JAN MAY JUL OCT | | | | |
| B | 4 | <1 | <1 | <1 |
| T | 5 | <1 | <1 | <1 |
| E | 3.1 | <1 | <1 | <1 |
| X | 9.7 | <3 | <3 | <3 |
| 1995 MAR JUN AUG OCT | | | | |
| B | 1.4 | <1 | <1 | <1 |
| T | 6 | <1 | <1 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | 6 | 3 | <3 | <1 |

| MW-19 | | | | |
|----------------------|-----|------|------|----|
| 1992 JAN APR JUL OCT | | | | |
| B | | 14 | | |
| T | | 4 | | |
| E | | 2 | | |
| X | | 1 | | |
| 1993 JAN APR JUL OCT | | | | |
| B | | 15.5 | 11.2 | |
| T | | 35.8 | 12.3 | |
| E | | <2 | <2 | |
| X | | 13.5 | <6 | |
| 1994 JAN MAY JUL OCT | | | | |
| B | 2.5 | <1 | 5.4 | <1 |
| T | 3.4 | <1 | <1 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | <3 | <3 | <3 | <3 |
| 1995 MAR JUN AUG OCT | | | | |
| B | 79 | 3.1 | <1 | <1 |
| T | 28 | 3.8 | <1 | <1 |
| E | 5 | 1.8 | <1 | <1 |
| X | 11 | 3.4 | <3 | <1 |

| MW-14 | | | | |
|----------------------|-----|----|----|--|
| 1992 JAN APR JUL OCT | | | | |
| B | | | 43 | |
| T | | | 99 | |
| E | | | 19 | |
| X | | | 45 | |
| 1993 JAN APR JUL OCT | | | | |
| B | 19 | 13 | | |
| T | <1 | 3 | | |
| E | <1 | 3 | | |
| X | 1.2 | 6 | | |

| MW-13 | | | | |
|----------------------|-----|----|------|------|
| 1992 JAN APR JUL OCT | | | | |
| B | ND | ND | 84 | |
| T | ND | ND | 150 | |
| E | ND | ND | 26 | |
| X | ND | ND | 62 | |
| 1993 JAN APR JUL OCT | | | | |
| B | 28 | 13 | 14.6 | 28.6 |
| T | <1 | <1 | 34.3 | 29.6 |
| E | <1 | <1 | <2 | <2 |
| X | <1 | <1 | 13.4 | 10.2 |
| 1994 JAN MAY JUL OCT | | | | |
| B | 2.4 | <1 | 6.5 | <1 |
| T | 3.4 | <1 | 1.2 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | <3 | <3 | <3 | <3 |
| 1995 MAR JUN AUG OCT | | | | |
| B | <1 | <1 | <1 | <1 |
| T | 3 | <1 | <1 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | <3 | 3 | <3 | <1 |

| MW-12 | | | | |
|----------------------|-----|-----|------|-----|
| 1992 JAN APR JUL OCT | | | | |
| B | ND | ND | 18 | 64 |
| T | ND | ND | 4 | 130 |
| E | ND | ND | 1 | 24 |
| X | ND | ND | 1 | 56 |
| 1993 JAN APR JUL OCT | | | | |
| B | 67 | 30 | 11.4 | <2 |
| T | 1.1 | <1 | 29.2 | <2 |
| E | <1 | <1 | <2 | <2 |
| X | <1 | <1 | 12.1 | <6 |
| 1994 JAN MAY JUL OCT | | | | |
| B | 2.6 | <1 | 3.7 | <1 |
| T | 4 | 1.6 | <1 | <1 |
| E | <1 | 1.1 | <1 | <1 |
| X | <3 | 4.1 | <3 | <3 |
| 1995 MAR JUN AUG OCT | | | | |
| B | <1 | <1 | <1 | <1 |
| T | 3 | <1 | <1 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | 4 | <3 | <3 | <1 |

| MW-11 | | | | |
|----------------------|-----|-----|------|-----|
| 1992 JAN APR JUL OCT | | | | |
| B | ND | 2 | 31 | 78 |
| T | ND | ND | 7 | 130 |
| E | ND | ND | 2 | 22 |
| X | ND | ND | 1 | 51 |
| 1993 JAN APR JUL OCT | | | | |
| B | 1.3 | 1.1 | 15.5 | <2 |
| T | <1 | <1 | 31.3 | <2 |
| E | <1 | <1 | <2 | <2 |
| X | 1.1 | <1 | 11.6 | <6 |
| 1994 JAN MAY JUL OCT | | | | |
| B | 3.7 | <1 | 1.9 | <1 |
| T | 5.5 | <1 | 1.1 | 2 |
| E | <1 | 1.3 | <1 | <1 |
| X | 3.7 | 3.9 | <3 | <3 |
| 1995 MAR JUN AUG OCT | | | | |
| B | <1 | <1 | <1 | <1 |
| T | 2 | 1.1 | <1 | <1 |
| E | <1 | <1 | <1 | <1 |
| X | 3.2 | <3 | <3 | <1 |

- LEGEND**
- MONITOR WELL
 - MONITOR WELL SAMPLED ANNUALLY
 - SUPPLY WELL
 - ▲ MONITOR WELL SAMPLED QUARTERLY
 - MONITOR WELL SAMPLED SEMI-ANNUALLY
 - RECOVERY WELL SAMPLED ANNUALLY
 - PRODUCT RECOVERY WELL
 - ▲ INJECTION WELL
 - VAPOR EXTRACTION/RECOVERY WELL
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - ND NO DETECTION
 - * SAMPLING FOR TPH DISCONTINUED

NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER (ppb) UNLESS OTHERWISE STATED.
WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.

NORTH EVAPORATION POND (ABANDONED)

TEXACO OIL WELL

SKIMMER POND (CLOSED)

EVAP. POND (CLOSED)

SEE DETAIL 1

DETAIL 1 SCALE: 1" = 50'

| MW-22 (MID.) | | | | |
|---------------------|-----|------|-----|-----|
| 7/93 4/94 5/94 7/94 | | | | |
| B | 170 | 2520 | 6.6 | 4.7 |
| T | 65 | 260 | 2.4 | 1.1 |
| E | 36 | <100 | <1 | <1 |
| X | 48 | <300 | 7.1 | <3 |
| 3/95 10/95 | | | | |
| B | <1 | <1 | | |
| T | <1 | <1 | | |
| E | <1 | <1 | | |
| X | <3 | <1 | | |

| MW-21 (SHAL.) | | | | |
|---------------------|-------|-----|-----|------|
| 7/93 4/94 5/94 7/94 | | | | |
| B | 37000 | 6.6 | 517 | 77.7 |
| T | 5000 | <1 | 52 | 51.1 |
| E | <2000 | <1 | <1 | <1 |
| X | <6000 | <3 | <3 | 10.5 |
| 3/95 10/95 | | | | |
| B | 42 | 92 | | |
| T | <1 | <1 | | |
| E | <1 | <1 | | |
| X | <3 | <1 | | |

| MW-23 (DEEP) | |
|--------------|-----|
| 7/93 | |
| B | 190 |
| T | 130 |
| E | 10 |
| X | 46 |

| MW-2 | | | | |
|---------------------|----|----|----|----|
| 7/92 7/93 7/94 7/94 | | | | |
| B | <1 | <2 | <1 | <1 |
| T | <1 | <2 | <1 | <1 |
| E | <1 | <2 | <1 | <1 |
| X | <1 | <6 | <3 | <3 |

| MW-7 | | | | |
|---------------------|----|------|-----|------|
| 7/92 7/93 7/94 8/95 | | | | |
| B | 1 | 40.4 | 2.8 | 63.4 |
| T | <1 | 570 | 1.8 | 1.2 |
| E | <1 | <1 | 1.2 | 1.5 |
| X | <1 | 1270 | 5 | <3 |

| MW-10 | | | | |
|----------------|-----|------|------|--|
| 7/93 7/94 8/95 | | | | |
| B | 3.5 | 4160 | 3660 | |
| T | <2 | 210 | 33 | |
| E | <2 | 230 | <2.5 | |
| X | NS | 860 | <7.5 | |

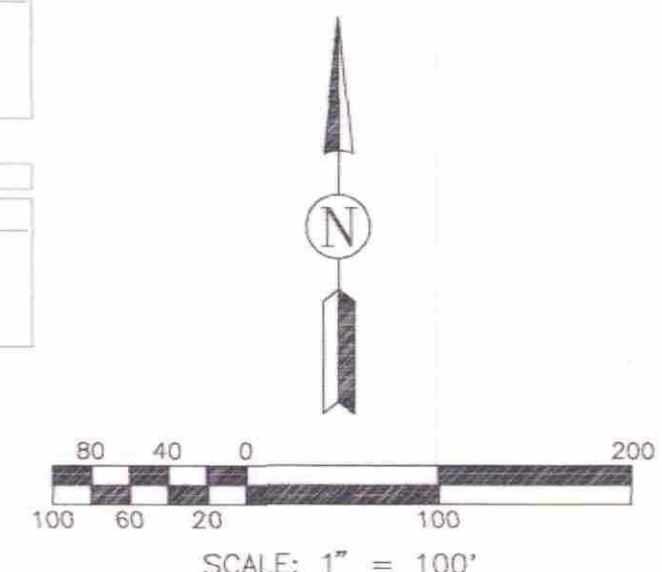


PLATE 1
ANALYTICAL RESULTS (ppb)
LEE PLANT

CLIENT: GPM GAS CORPORATION
DATE: OCTOBER 10, 1995
CHECKED BY: GJV
DRAWN BY: MP (12/27/95)
DWG. NO. BTEXV09.DWG

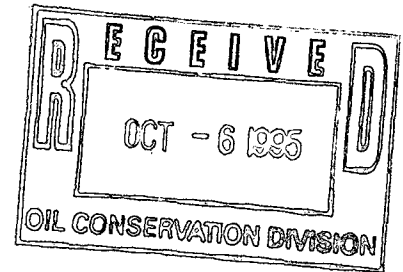
RECEIVED
MAR 2 5 1996
Environmental Bureau
Oil Conservation Division



GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

4044 PENBROOK
ODESSA, TX 79762

October 3, 1995



Mr. William Olson
Hydrogeologist
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

**Third Quarter 1995 Analytical Results
Lee Plant, Discharge Plan GW-2**

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the third quarter of 1995 (see attached analytical results, report date August 17, 1995). Sample collection was conducted on August 10, 1995, pursuant to the NMOCD Discharge Plan GW-2 requirements. Samples were collected by GCL, our consultant.

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A groundwater level contour map for the August event is provided as an attachment. The average daily pumping rates in gallons per day (gpd) from the remediation system recovery wells for the third quarter of 1995 are as follows: RW-1 (1700 gpd), MW-6 (79 gpd), MW-7 (1268 gpd), and MW-10 (1934 gpd).

Quarterly groundwater sampling was conducted at five down-gradient wells (MW-11, MW-12, MW-13, MW-19, and MW-20), four cross-gradient wells (MW-7, MW-9, MW-10, and MW-18) and one up-gradient well (MW-16). All samples were submitted to NDRC Labs out of Houston, Texas following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the ten wells were analyzed for dissolved aromatic hydrocarbons using EPA method 602.

Table 1 summarizes the third quarter 1995 analytical results. A site map of the plant with analytical results from October 1992 to present is provided in Plate 1. A discussion of the field data and analytical results is provided below.

- Free-phase floating product was encountered in MW-4 at a thickness of 0.01 ft. This is a decrease from the May 1995 sampling event product thickness of 0.95 ft.
- MW-5 contained product at a thickness of 4.02 ft. on the day of the August sampling. Free-phase floating product was not observed during the May sampling event in this

Mr. William Olson
October 3, 1995
page 2

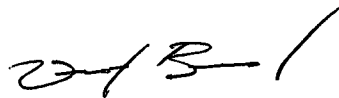
well, but was observed in the March sampling event at a thickness of 5.96 ft. GPM is currently conducting visual observations of product in this well.

- Free-phase floating product was also encountered in MW-15 at a thickness of 0.03 ft. Free-phase floating product was not observed during previous sampling events.
- Analytical results from the laboratory indicate the BTEX concentrations in all down-gradient wells (MW-11, MW-12, MW-13, MW-19 and MW-20) are below the laboratory detection limits.
- Analytical results for samples from the four cross-gradient wells (MW-7, MW-9, MW-10 and MW-18) are shown in Table 1. When compared with the July 1994 sampling event, the results indicate an increase in the BTEX concentrations in wells MW-7 and MW-9, while a slight decrease in BTEX concentration was noted in MW-10. The BTEX concentrations found in MW-18 have consistently decreased over the last three sampling events (July 1994, March 1995 and August 1995), and are currently below the laboratory detection limit.

The March sampling results for MW-19 showed unusually high BTEX concentrations. Based upon the results from the May and August events, it is suspected that the March results were caused by residual hydrocarbons left in the hose during sampling. The sampling procedure has been modified in order to prevent a reoccurrence of this anomaly. The well(s) will now be purged with the Grundfos pump, and a dedicated disposable bailer used to collect the sample for laboratory analysis. In addition, GCL will sample all downgradient wells prior to sampling upgradient and cross-gradient wells.

GPM will conduct the fourth quarter sampling event at the Lee Plant in October of this year. At that time, we will continue to monitor the free-phase product in MW-4, MW-5 and MW-15. Please call me at (915) 368-1085 if you have any questions or concerns.

Sincerely,



Vince Bernard
Safety & Environmental Director
New Mexico Region

VBB
Attachments

cc: Maureen Gannon - GCL Albuquerque
S.J. Seeby
M.S. Nault (w/ Attachments)

GPM Lee Plant August 1995 Water Level Contour

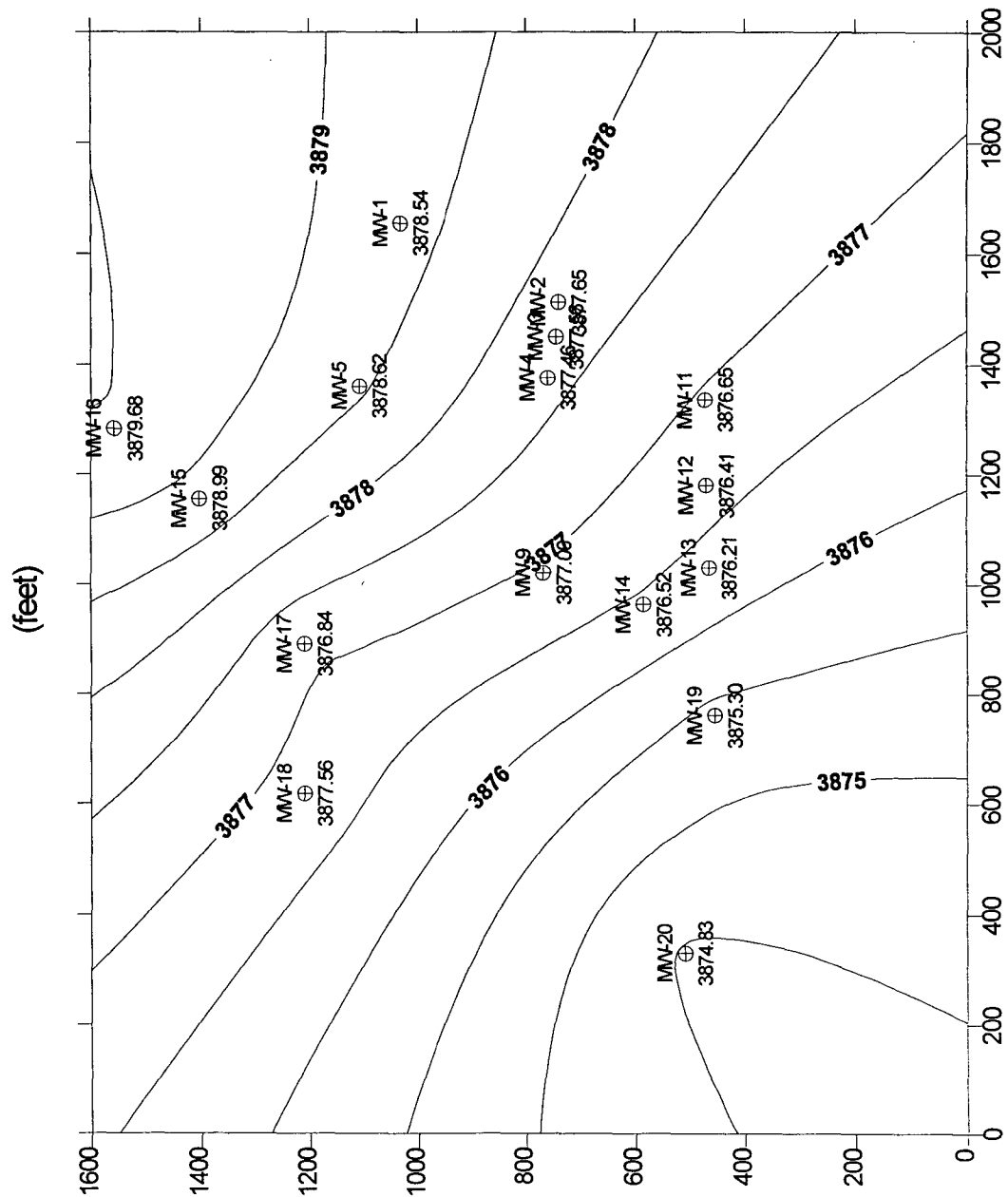


TABLE 1

Third Quarter Analytical Results: Lee Plant
August 1995

| | Benzene ppm | Toluene ppm | Ethyl Benzene ppm | Xylenes ppm |
|-----------------------|----------------|----------------|----------------------|----------------|
| WQCC Stds | 0.010 | 0.750 | 0.750 | 0.620 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-12 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-13 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-19 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| Duplicate MW-19 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-20 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| Trip Blank | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| CROSS GRADIENT | | | | |
| MW-7 | 0.0834 | 0.0012 | 0.0015 | <0.0030 |
| MW-9 | 5.8600 | <0.0025 | <0.0025 | <0.0075 |
| MW-10 | 3.6600 | 0.0330 | <0.0025 | <0.0075 |
| MW-18 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| UP GRADIENT | | | | |
| MW-16 | 3.5300 | 0.5400 | 0.1370 | 0.3780 |
| RINSATE * | | | | |
| MW-27 | <0.0010 | 0.0021 | <0.0010 | <0.0030 |

* Rinsate sample (MW-27) was collected after MW-10 sample collection

** Values shown in bold are above WQCC Standards

G:\3023\LEE\3RDQRT95.WQ2



Inchcape Testing Services

Environmental Laboratories

11155 South Main
Houston, TX 77025
Tel: 713-661-8150
Fax: 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Maurine Gannon
PROJECT : GPM Lee Plant

JOB NUMBER : H95-4586
REPORT DATE : 17-AUG-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------------|-------------|--------------|
| 1 | 9508091630 MW-7 | Groundwater | 9-AUG-1995 |
| 2 | 9508091645 MW-10 | Groundwater | 9-AUG-1995 |
| 3 | 9508100900 MW-27 | Groundwater | 10-AUG-1995 |
| 4 | 9508100930 MW-20 | Groundwater | 10-AUG-1995 |

| BTEX ANALYSIS, EPA 8020 | 1 | 2 | 3 | 4 |
|-------------------------------|-------|------|-------|-------|
| Benzene $\mu\text{g/L}$ | 83.4 | 3660 | < 1.0 | < 1.0 |
| Toluene $\mu\text{g/L}$ | 1.2 | 33 | 2.1 | < 1.0 |
| Ethyl benzene $\mu\text{g/L}$ | 1.5 | < 25 | < 1.0 | < 1.0 |
| Xylenes $\mu\text{g/L}$ | < 3.0 | < 75 | < 3.0 | < 3.0 |



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PROJECT : GPM Lee Plant

JOB NUMBER : H95-4586
REPORT DATE : 17-AUG-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------------|-------------|--------------|
| 5 | 9508101345 MW-11 | Groundwater | 10-AUG-1995 |
| 6 | 9508101445 MW-12 | Groundwater | 10-AUG-1995 |
| 7 | 9508101545 MW-13 | Groundwater | 10-AUG-1995 |
| 8 | 9508101630 MW-19 | Groundwater | 10-AUG-1995 |

| BTEX ANALYSIS, EPA 8020 | 5 | 6 | 7 | 8 |
|-------------------------------|-------|-------|-------|-------|
| Benzene $\mu\text{g/L}$ | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene $\mu\text{g/L}$ | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Ethyl benzene $\mu\text{g/L}$ | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes $\mu\text{g/L}$ | < 3.0 | < 3.0 | < 3.0 | < 3.0 |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Maurine Gannon
PROJECT : GPM Lee Plant

JOB NUMBER : H95-4586
REPORT DATE : 17-AUG-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------------|-------------|--------------|
| 9 | 9508101645 MW-25 | Groundwater | 10-AUG-1995 |
| 10 | 9508101745 MW-9 | Groundwater | 10-AUG-1995 |
| 11 | 9508101830 MW-18 | Groundwater | 10-AUG-1995 |
| 12 | 9508101930 MW-16 | Groundwater | 10-AUG-1995 |

| BTEX ANALYSIS, EPA 8020 | | 9 | 10 | 11 | 12 |
|-------------------------|------|-------|------|-------|------|
| Benzene | µg/L | < 1.0 | 5860 | < 1.0 | 3530 |
| Toluene | µg/L | < 1.0 | < 25 | < 1.0 | 540 |
| Ethyl benzene | µg/L | < 1.0 | < 25 | < 1.0 | 137 |
| Xylenes | µg/L | < 3.0 | < 75 | < 3.0 | 378 |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Maurine Gannon
PROJECT : GPM Lee Plant

JOB NUMBER : H95-4586
REPORT DATE : 17-AUG-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|--------------|--------|--------------|
| 13 | Trip Blank | Water | 10-AUG-1995 |
| 14 | Method Blank | Water | 15-AUG-1995 |
| | | | |
| | | | |

| BTEX ANALYSIS, EPA 8020 | | 13 | 14 | | |
|-------------------------|------|-------|-------|--|--|
| Benzene | µg/L | < 1.0 | < 1.0 | | |
| Toluene | µg/L | < 1.0 | < 1.0 | | |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | | |
| Xylenes | µg/L | < 3.0 | < 3.0 | | |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
Houston, TX 77025
Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-1

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508091630
: MW-7
PROJECT : GPM Lee Plant
DATE SAMPLED : 9-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | 83.4 | µg/L |
| Toluene | | 1.0 | µg/L | 1.2 | µg/L |
| Ethyl benzene | | 1.0 | µg/L | 1.5 | µg/L |
| Xylenes | | 3.0 | µg/L | < 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 93.8 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
Houston, TX 77025
Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-2

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508091645
: MW-10
PROJECT : GPM Lee Plant
DATE SAMPLED : 9-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 25

| BTEX ANALYSIS | | |
|----------------|--------------------|----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 25 $\mu\text{g/L}$ | 3660 $\mu\text{g/L}$ |
| Toluene | 25 $\mu\text{g/L}$ | 33 $\mu\text{g/L}$ |
| Ethyl benzene | 25 $\mu\text{g/L}$ | < 25 $\mu\text{g/L}$ |
| Xylenes | 75 $\mu\text{g/L}$ | < 75 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 90.7 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
Houston, TX 77025
Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-3

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508100900
: MW-27
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | | 2.1 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 83.6 % |



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Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-4

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508100930
: MW-20
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|----------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 88.9 % |



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Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-5
REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508101345
: MW-11
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 92.0 % |



Inchcape Testing Services

Environmental Laboratories

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Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-6
REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508101445
: MW-12
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---|---------|------|
| TEST REQUESTED | DETECTION LIMIT | | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 91.0 % |



Inchcape Testing Services

Environmental Laboratories

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Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-7

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater

ID MARKS : 9508101545

: MW-13

PROJECT : GPM Lee Plant

DATE SAMPLED : 10-AUG-1995

ANALYSIS METHOD : EPA 8020

ANALYZED BY : M. Tobias

ANALYZED ON : 16-AUG-1995

DILUTION FACTOR : 1

| BTX ANALYSIS | | | | | |
|----------------|-----------------|------|---|---------|------|
| TEST REQUESTED | DETECTION LIMIT | | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 89.9 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-8

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater

ID MARKS : 9508101630

: MW-19

PROJECT : GPM Lee Plant

DATE SAMPLED : 10-AUG-1995

ANALYSIS METHOD : EPA 8020

ANALYZED BY : M. Tobias

ANALYZED ON : 16-AUG-1995

DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 88.3 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-9

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater
ID MARKS : 9508101645
: MW-25
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 90.8 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
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DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-10

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater

ID MARKS : 9508101745

: MW-9

PROJECT : GPM Lee Plant

DATE SAMPLED : 10-AUG-1995

ANALYSIS METHOD : EPA 8020

ANALYZED BY : M. Tobias

ANALYZED ON : 16-AUG-1995

DILUTION FACTOR : 25

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|------|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 25 | µg/L | 5860 | µg/L | |
| Toluene | 25 | µg/L | < | 25 | µg/L |
| Ethyl benzene | 25 | µg/L | < | 25 | µg/L |
| Xylenes | 75 | µg/L | < | 75 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 83.9 % |



Inchcape Testing Services

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DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-11

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater

ID MARKS : 9508101830

: MW-18

PROJECT : GPM Lee Plant

DATE SAMPLED : 10-AUG-1995

ANALYSIS METHOD : EPA 8020

ANALYZED BY : M. Tobias

ANALYZED ON : 16-AUG-1995

DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---|---------|------|
| TEST REQUESTED | DETECTION LIMIT | | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 89.1 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
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DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-12

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Groundwater

ID MARKS : 9508101930

: MW-16

PROJECT : GPM Lee Plant

DATE SAMPLED : 10-AUG-1995

ANALYSIS METHOD : EPA 8020

ANALYZED BY : M. Tobias

ANALYZED ON : 16-AUG-1995

DILUTION FACTOR : 25

| BTEX ANALYSIS | | |
|----------------|--------------------|----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 25 $\mu\text{g/L}$ | 3530 $\mu\text{g/L}$ |
| Toluene | 25 $\mu\text{g/L}$ | 540 $\mu\text{g/L}$ |
| Ethyl benzene | 25 $\mu\text{g/L}$ | 137 $\mu\text{g/L}$ |
| Xylenes | 75 $\mu\text{g/L}$ | 378 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 85.9 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
Fax: 713-661-2661

DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-13

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Water
ID MARKS : Trip Blank
PROJECT : GPM Lee Plant
DATE SAMPLED : 10-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 92.8 % |



Inchcape Testing Services

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DATE RECEIVED : 15-AUG-1995

REPORT NUMBER : H95-4586-14

REPORT DATE : 17-AUG-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Maurine Gannon

SAMPLE MATRIX : Water
ID MARKS : Method Blank
PROJECT : GPM Lee Plant
DATE SAMPLED : 15-AUG-1995
ANALYSIS METHOD : EPA 8020
ANALYZED BY : M. Tobias
ANALYZED ON : 16-AUG-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 85.0 % |



Inchcape Testing Services

Environmental Laboratories

11155 South Main
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Tel: 713-661-8150
Fax: 713-661-2661

REPORT DATE : 17-AUG-1995

REPORT NUMBER : H95-4586

SAMPLE SUBMITTED BY : GCL
ATTENTION : Ms. Maurine Gannon

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------------|-------------|-------------|--------------|-------------|
| BATCH NO. | 8020D_705 | 8020D_705 | 8020D_705 | 8020D_705 |
| LCS LOT NO. | --- | --- | --- | --- |
| PREP METHOD | --- | --- | --- | --- |
| DATE PREPARED | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| DATE ANALYZED | 16-AUG-1995 | 16-AUG-1995 | 16-AUG-1995 | 16-AUG-1995 |
| ANALYZED BY | M. Tobias | M. Tobias | M. Tobias | M. Tobias |
| UNITS | µg/L | µg/L | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 3.00 |
| MS RECOVERY % | 100 | 101 | 104 | 96.7 |
| MSD RECOVERY % | 102 | 104 | 106 | 100 |
| MS/MSD RPD % | 2.0 | 2.5 | 1.9 | 3.4 |
| BS RECOVERY % | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA |
| BS/BSD RPD % | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA |
| LCS RECOVERY % | 99.0 | 102 | 106 | 100 |
| SPIKE SAMPLE ID | 4583-7 | 4583-7 | 4583-7 | 4583-7 |
| DUP SAMPLE ID | --- | --- | --- | --- |

NA

Not Applicable

Due, 8-21-95

RECEIVED AUG 23 1995



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

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

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

ORIGINAL

No 8458

Chain of Custody

Date 8/10/95 Page 1 of 2

Soil Report to AT&T: MOUNTAIN GROUND FOR M. SHELDON

Lab Name NDRC/Inchcape Testing Service
Address 11155 South Main
Houston, TX 77025
Telephone (713) 661-8150

Samplers (SIGNATURES)

| Sample Number | Matrix | Location |
|---------------|---------|----------|
| 9508091630 | Aqueous | MW-7 |
| 9508091645 | | MW-10 |
| 9508100900 | | MW-27 |
| 9508100930 | | MW-20 |
| 9508101345 | | MW-11 |
| 9508101445 | | MW-12 |
| 9508101545 | | MW-13 |
| 9508101630 | | MW-19 |
| 9508101645 | | MW-25 |
| 9508101745 | | MW-9 |

Analysis Request

| Halogenated Volatiles 601/8010 | Aromatic Volatiles 602/8020 | Phenols, Sub Phenols 604/8040 | Pesticides/PCB 608/8080 | Polynuclear Aromatic Hydrocarbons 610/8310 | GC/MS 624/8240 | Base/New/Acid Compounds GC/MS 625/8270 | Total Organic Carbon (TOC) 415/9060 | Total Organic Halides (TOX) 9020 | Petroleum Hydrocarbons 418.1 | TPH/BTEX Modified 8015 | TC-P, Vol., Semi-Vol. Herbicides, Pesticides | TC-P, Metals | RCRA Metals (8) | Priority Pollutant Metals (13) | CAM Metals (18) TLC/STLC | Flash Point | Corrosivity | Reactivity | Oil & Grease | Cyanide Total/Amenable | Chemical Oxygen Demand (COD) | Number of Containers |
|-----------------------------------|--------------------------------|----------------------------------|----------------------------|---|----------------|---|--|-------------------------------------|---------------------------------|---------------------------|---|--------------|--------------------|-----------------------------------|-----------------------------|-------------|-------------|------------|--------------|------------------------|---------------------------------|----------------------|
| X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

| Project Information | Sample Receipt | Relinquished By | Relinquished By | Relinquished By |
|---|---------------------------|-----------------|--------------------------|--------------------------|
| Project <u>GPM Lee Plant</u> | Total No. of Containers | Signature | Signature | Signature |
| Project Director <u>Lawrence Gannon</u> | Chain of Custody Seals | (Printed Name) | (Printed Name) | (Printed Name) |
| Charge Code No. <u>3023.002</u> | Rec'd Good Condition/Cold | (Date) | (Date) | (Date) |
| Shipping ID. No. <u>0218935183</u> | Conforms to Record | (Company) | (Company) | (Company) |
| | Lab No. | Received By | Received By (Laboratory) | Received By (Laboratory) |
| | | Signature | Signature | Signature |
| | | (Printed Name) | (Printed Name) | (Printed Name) |
| | | (Date) | (Date) | (Date) |
| | | (Company) | (Company) | (Company) |

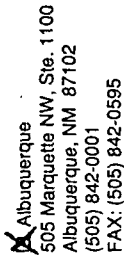
Via: Federal Express

Special Instructions/Comments:


* Raw EPA 8260 BTEX only - Pen. M. Sheldon 8/15/95

* Coolers were decontaminated to SPL on Saturday, 8/19/95 by FedEx by mistake. Rec'd Co. on 8/14/95 Distribution: White, Canary-Laboratory • Pink, GCL

56-12-3 : 2nd



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

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

Chain of Custody

Date 8/10/95 Page 2 of 2

Analysis Request

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| Reinforced By | Reinforced By | Reinforced By |
|------------------|------------------|---------------|
| 1. Reinforced By | 2. Reinforced By | 3. |

| | |
|-------|-----|
| FLASK | 100 |
|-------|-----|

| (Signature) | (Time) | (Signature) | (Time) |
|--------------|---------|-------------|--------|
| Mark S: King | 8/10/95 | | |

[illegible]

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|----------|-----------|-----------|
| Companyn | (Company) | (Company) |
|----------|-----------|-----------|

| Received By... | 1. Received By | 2. Received By (Laboratory) | 3. |
|----------------|----------------|-----------------------------|----|
| Received By... | 1. Received By | 2. Received By (Laboratory) | 3. |

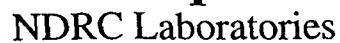
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| | | | |
|-------------|--------|-------------|--------|
| (Signature) | (Time) | (Signature) | (Time) |
| (Signature) | (Time) | (Signature) | (Time) |

| Serial No. | Date | Disputed Name(s) | Date | Disputed Name(s) | Date |
|------------|----------|------------------|----------|------------------|----------|
| 1 | 10/10/20 | Mr. S. S. S. | 10/10/20 | Mr. S. S. S. | 10/10/20 |

| (Filled vial) | No. | | (date) | (initials) | (date) |
|---------------|-----|------|----------|------------|-------------|
| | 7 | T-5- | 6/13/0-- | Cutliffe | L. Doleum A |

0218935183



SAMPLE PRESERVATION INFORMATION SHEET

No. of Cooler(s): 1 Temperature of Cooler(s): $< 4^{\circ}\text{C}$

Date _____

ORIGINAL

LEGEND

- MONITOR WELL
 - MONITOR WELL SAMPLED ANNUALLY
 - SUPPLY WELL
 - ▲ MONITOR WELL SAMPLED QUARTERLY
 - ◻ MONITOR WELL SAMPLED SEMI-ANNUALLY
 - ⊙ RECOVERY WELL SAMPLED ANNUALLY
 - ⊙ PRODUCT RECOVERY WELL
 - ⊙ INJECTION WELL
 - ⊙ VAPOR EXTRACTION/RECOVERY WELL
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - J ANALYTICAL RESULTS FROM OCTOBER 1992
 - K ANALYTICAL RESULTS FROM JANUARY 1993
 - L ANALYTICAL RESULTS FROM APRIL 1993
 - M ANALYTICAL RESULTS FROM JULY 1993
 - N ANALYTICAL RESULTS FROM OCTOBER 1993
 - O ANALYTICAL RESULTS FROM JANUARY 1994
 - APR ANALYTICAL RESULTS FOR APRIL 1994
 - P ANALYTICAL RESULTS FROM MAY 1994
 - Q ANALYTICAL RESULTS FROM JULY 1994
 - R ANALYTICAL RESULTS FROM OCTOBER 1994
 - S ANALYTICAL RESULTS FROM MARCH 1995
 - T ANALYTICAL RESULTS FROM JUNE 1995
 - U ANALYTICAL RESULTS FROM AUGUST 1995
 - NA NOT AVAILABLE
 - ND NO DETECTION
 - NS NOT SAMPLED
 - NI NOT INSTALLED AT THE DATE OF SAMPLING
 - TPH TOTAL PETROLEUM HYDROCARBONS
 - mg/l MILLIGRAMS PER LITER
 - * SAMPLING FOR TPH DISCONTINUED
- NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER UNLESS OTHERWISE STATED.
WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.

NOTE: BOLDED NUMBERS SUGGEST DATA POINTS USED IN CONTOURING.

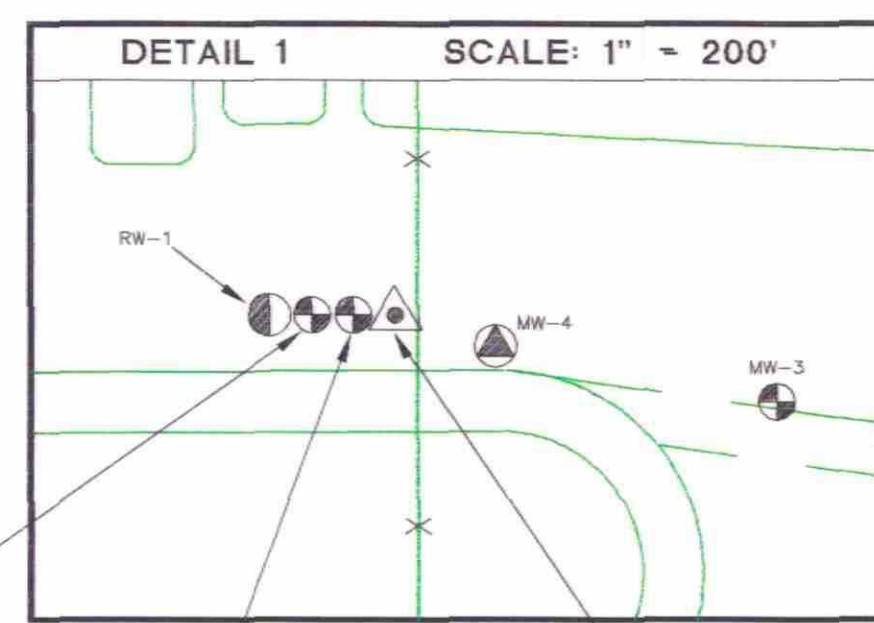
NORTH EVAPORATION POND
(ABANDONED)

| | M | N | O | P | Q | S | T | U |
|---|------|----|----|----|------|----|----|------|
| B | 1190 | NS | NS | NS | 3820 | NS | NS | 3530 |
| T | 157 | NS | NS | NS | 1660 | NS | NS | 540 |
| E | 30 | NS | NS | NS | 120 | NS | NS | 137 |
| X | 48.0 | NS | NS | NS | <300 | NS | NS | 378 |

| | S | T | U |
|---|-------|----|----|
| B | 6,240 | NS | NS |
| T | 0.981 | NS | NS |
| E | 0.087 | NS | NS |
| X | 0.214 | NS | NS |

| | S | T | U |
|---|--------|----|----|
| B | 18,800 | NS | NS |
| T | 17,000 | NS | NS |
| E | 1,760 | NS | NS |
| X | 3,100 | NS | NS |

TEXACO OIL WELL



| MW-22 (MID) | | | | | | MW-21 (SHAL) | | | | | | MW-23 (DEEP) | | | |
|-------------|------|------|------|------|--------|--------------|-------|------|------|------|--------|--------------|-----|----|--|
| | M | P | Q | APR | S | | P | Q | APR | S | | M | S | | |
| B | 170 | 6.6 | 4.7 | 2520 | <0.001 | B | 37000 | 517 | 77.7 | 6.6 | 0.042 | B | 190 | NS | |
| T | 65.0 | 2.4 | 1.1 | 260 | <0.001 | T | 5000 | 52 | 51.1 | <1.0 | <0.001 | T | 130 | NS | |
| E | 36.0 | <1.0 | <1.0 | <100 | <0.001 | E | <2000 | <1.0 | <1.0 | <1.0 | <0.001 | E | 10 | NS | |
| X | 48.0 | 7.1 | <3.0 | <300 | <0.003 | X | <6000 | <3.0 | 10.5 | <3.0 | <0.003 | X | 46 | NS | |

| | M | N | O | P | Q | S | T | U |
|---|------|----|-----|----|------|------|----|------|
| B | 10.7 | NS | <1 | NS | 56.5 | <1.0 | NS | <1.0 |
| T | 28.9 | NS | 2.1 | NS | 8.3 | 2.0 | NS | <1.0 |
| E | <2.0 | NS | <1 | NS | 2.3 | <1.0 | NS | <1.0 |
| X | 12.1 | NS | <3 | NS | <3.0 | <3.0 | NS | <3.0 |

| | S | T | U |
|---|----|----|----|
| B | 62 | NS | NS |
| T | 20 | NS | NS |
| E | 4 | NS | NS |
| X | 10 | NS | NS |

| | L | M | N | O | P | Q | S | T | U |
|---|---|----|----|----|----|------|----|----|----|
| B | 7 | NS | NS | NS | NS | 19.5 | NS | NS | NS |
| T | 3 | NS | NS | NS | NS | <1.0 | NS | NS | NS |
| E | 2 | NS | NS | NS | NS | 2.3 | NS | NS | NS |
| X | 2 | NS | NS | NS | NS | <3.0 | NS | NS | NS |

| | J | K | L | M | N | O | P | Q | S | T | U |
|---|-------|-------|------|------|----|----|----|-----|----|----|------|
| B | 3,000 | 5,900 | 2200 | 673 | NS | NS | NS | 495 | NS | NS | 5860 |
| T | 280 | 3.8 | 11 | 314 | NS | NS | NS | <10 | NS | NS | <2.5 |
| E | 110 | 22.0 | 20 | 28.8 | NS | NS | NS | <10 | NS | NS | <2.5 |
| X | 120 | 11.0 | 40 | 69.4 | NS | NS | NS | <30 | NS | NS | <7.5 |

WS-2 (WATER WELL)



| | M | N | O | P | Q | S | T | U |
|---|-------|----|----|----|-------|----|----|----|
| B | 22000 | NS | NS | NS | 66400 | NS | NS | NS |
| T | 7870 | NS | NS | NS | 17100 | NS | NS | NS |
| E | 570 | NS | NS | NS | 630 | NS | NS | NS |
| X | 1270 | NS | NS | NS | <1500 | NS | NS | NS |

| | N | O | P | Q | S | T | U |
|---|------|----|------|----|------|----|----|
| B | <2.0 | NS | <1.0 | NS | <1.0 | NS | NS |
| T | <2.0 | NS | <1.0 | NS | <1.0 | NS | NS |
| E | <2.0 | NS | <1.0 | NS | <1.0 | NS | NS |
| X | <6.0 | NS | <3.0 | NS | <3.0 | NS | NS |

| | M | N | O | P | Q | S | T | U |
|---|------|----|----|----|------|----|----|------|
| B | 3.5 | NS | NS | NS | 4160 | NS | NS | 5860 |
| T | <2.0 | NS | NS | NS | 210 | NS | NS | 33.0 |
| E | <2.0 | NS | NS | NS | 230 | NS | NS | <2.5 |
| X | NS | NS | NS | NS | 860 | NS | NS | <7.5 |

| | M | N | O | P | Q | S | T | U |
|---|------|----|----|----|-----|----|----|-------|
| B | 40.4 | NS | NS | NS | 2.8 | NS | NS | 8.3.4 |
| T | 570 | NS | NS | NS | 1.8 | NS | NS | 1.2 |
| E | <10 | NS | NS | NS | 1.2 | NS | NS | 1.5 |
| X | 1270 | NS | NS | NS | 5.0 | NS | NS | <3.0 |

| | J | K | L | M | N | O | P | Q | S | T | U |
|---|----|-----|----|----|----|----|----|----|----|----|----|
| B | 43 | 19 | 13 | NS | NS | NS | NS | NS | NS | NS | NS |
| T | 99 | <1 | 3 | NS | NS | NS | NS | NS | NS | NS | NS |
| E | 19 | <1 | 3 | NS | NS | NS | NS | NS | NS | NS | NS |
| X | 45 | 1.2 | 6 | NS | NS | NS | NS | NS | NS | NS | NS |

| | K | L | M | N | O | P | Q | R | S | T | U |
|---|----|------|------|------|-----|------|------|------|------|------|------|
| B | <1 | 1.3 | 217 | 18.3 | 4 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 |
| T | <1 | <1.0 | 102 | 14 | 5 | <1.0 | <1.0 | <1.0 | 6.0 | <1.0 | <1.0 |
| E | <1 | <1.0 | 10.6 | <2.0 | 3.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | <1 | 2.0 | 33.6 | <6.0 | 9.7 | <3.0 | <3.0 | <3.0 | 6.0 | 3.0 | <3.0 |

| | M | N | O | P | Q | R | S | T | U |
|---|------|------|------|------|------|------|----|-----|------|
| B | 15.3 | 11.2 | 2.5 | <1.0 | 5.4 | <1.0 | 79 | 3.1 | <1.0 |
| T | 35.8 | 12.3 | 3.4 | <1.0 | <1.0 | <1.0 | 28 | 3.8 | <1.0 |
| E | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5 | 1.8 | <1.0 |
| X | 13.5 | <6.0 | <3.0 | <3.0 | <3.0 | <3.0 | 11 | 3.4 | <3.0 |

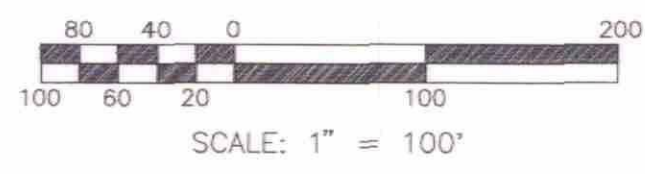
| | J | K | L | M | N | O | P | Q | R | S | T | U |
|---|-----|----|------|------|------|------|------|------|------|------|------|------|
| B | 84 | 28 | 13 | 14.6 | 28.6 | 2.4 | <1.0 | 6.5 | <1.0 | <1.0 | <1.0 | <1.0 |
| T | 150 | <1 | <1.0 | 34.3 | 29.6 | 3.4 | <1.0 | 1.2 | <1.0 | 3.0 | <1.0 | <1.0 |
| E | 26 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 62 | <1 | <1.0 | 13.4 | 10.2 | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | <3.0 | <3.0 |

| | J | K | L | M | N | O | P | Q | R | S | T | U |
|---|-----|-----|------|------|------|------|------|------|------|------|------|------|
| B | 78 | 1.3 | 1.1 | 15.5 | <2.0 | 3.7 | <1.0 | 1.9 | <1.0 | <1.0 | <1.0 | <1.0 |
| T | 130 | <1 | <1.0 | 31.3 | <2.0 | 5.5 | <1.0 | 1.1 | 2.0 | 2.0 | 1.1 | <1.0 |
| E | 22 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 51 | 1.1 | <1.0 | 11.6 | <6.0 | 3.7 | 3.9 | <3.0 | <3.0 | 3.0 | <3.0 | <3.0 |

| | J | K | L | M | N | O | P | Q | R | S | T | U |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|
| B | 64 | 67.0 | 30.0 | 11.4 | <2.0 | 2.6 | <1.0 | 3.7 | <1.0 | <1.0 | <1.0 | <1.0 |
| T | 130 | 1.1 | <1.0 | 29.2 | <2.0 | 4.0 | 1.6 | <1.0 | <1.0 | 3.0 | <1.0 | <1.0 |
| E | 24 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 56 | <1 | <1.0 | 12.1 | <6.0 | <3.0 | 4.1 | <3.0 | <3.0 | 9.0 | <3.0 | <3.0 |

RECEIVED
OCT 06 1995

Environmental Bureau
Oil Conservation Division



GCL



PLATE 1
ANALYTICAL RESULTS (ppb)
LEE PLANT
AUGUST 1995

CLIENT: GPM GAS CORPORATION

DATE: AUGUST 1995

CHECKED BY: M. GANNON

DRAWN BY: MP

DWG. NO.
BTEXTV7.DWG



GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

4044 PENBROOK
ODESSA, TX 79762

July 10, 1995

OIL CONSERVATION DIVISION
RECEIVED

'95 JUL 13 AM 8 52

Mr. William Olson
Hydrogeologist
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: **Second Quarter 1995 Analytical Results**
Lee Plant, Discharge Plan GW-2

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the second quarter of 1995 (see attached analytical results, report date June 2, 1995). Sample collection was conducted on May 24, 1995, pursuant to the New Mexico Oil Conservation Division (NMOCD) Discharge Plan GW-2 requirements. Samples were collected by our consultant, GCL.

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A groundwater level contour map for the May event is provided as an attachment. The average daily pumping rates in gallons per day (GPD) from the remediation system recovery wells for the second quarter of 1995 are as follows: RW-1 (1399 gpd), MW-6 (208 gpd), MW-7 (0), MW-10 (2383 gpd), and MW-23 (219 gpd).

Quarterly groundwater sampling was conducted at the following monitor wells: MW-11, MW-12, MW-13, MW-19 and MW-20. All samples were submitted to NDRC Laboratories, Inc., out of Houston following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the five wells were analyzed for dissolved aromatic hydrocarbons using EPA Method 602.

Table 1 provides a summary of the second quarter 1995 analytical results. A discussion of field data and analytical results is provided below.

- Free-phase floating product was encountered in MW-14 at a thickness of 0.95 ft. which is an increase from March 1995 when the product thickness was 0.24 ft.
- MW-5 did not contain product on the day of the June sampling. The March event provided a product thickness of 5.96 ft. in this well. GPM is currently conducting visual observations of product in this well.

Mr. William Olson
July 10, 1995
page 2

- The results of BTEX analysis of water samples from down gradient wells, MW-11, MW-12, MW-13, MW-19, and MW-20 indicated concentrations below WQCC water quality standards. The BTEX concentration in MW-19 was significantly lower than the March event (see First Quarter 1995 correspondence, GPM to NMOCD).

GPM will conduct the annual sampling event at the Lee Plant in July. At that time, we will sample several wells including MW-5 (if no product is present in the well) and MW-16 in order to monitor upgradient activities. In the meantime, please call me at (915) 368-1085 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Bernard", with a stylized flourish at the end.

Vince Bernard
Safety & Environmental Director
New Mexico Region

VBB
Attachments

GPM Lee Plant May 1995 Water Level Contour

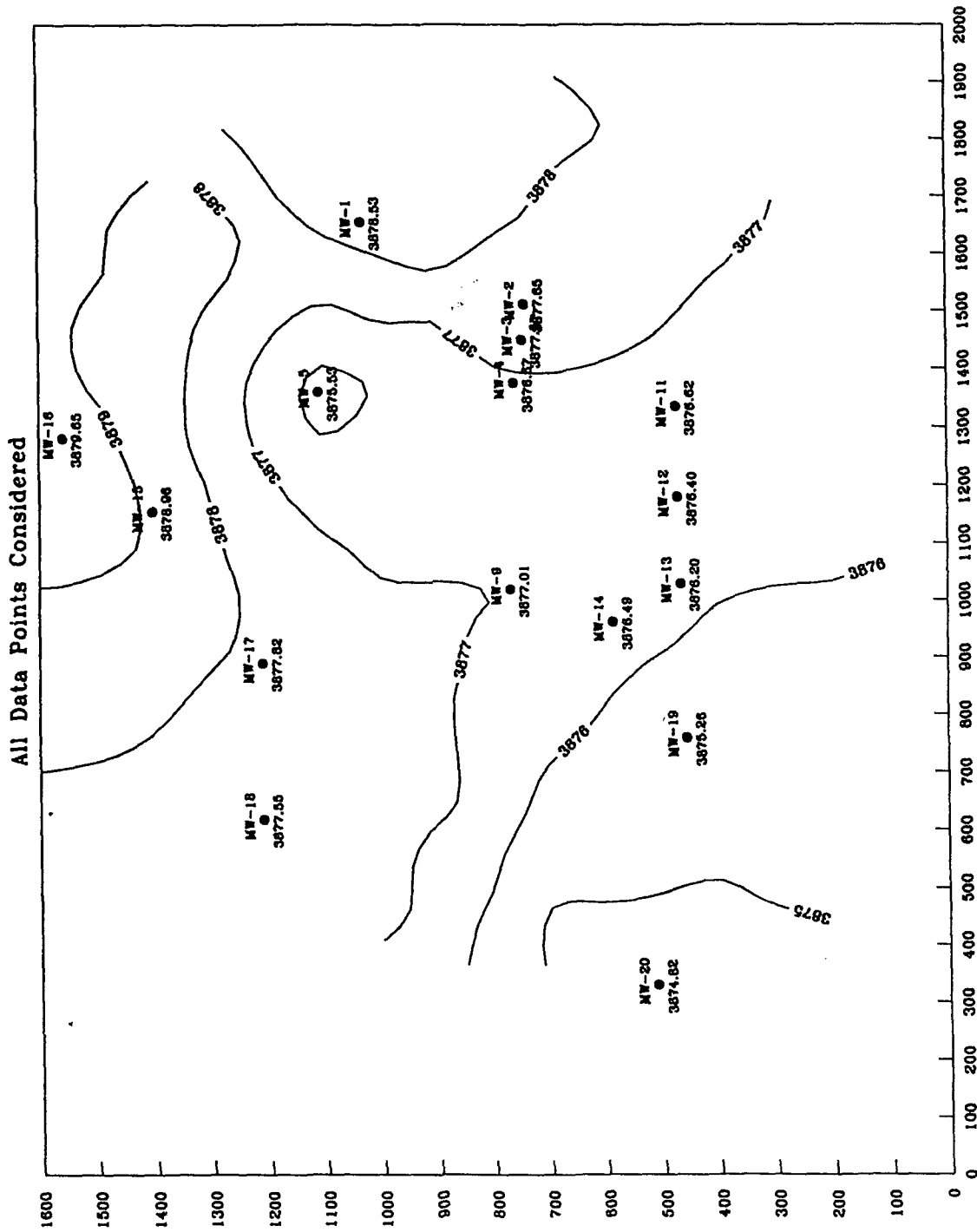


TABLE 1

Second Quarter Analytical Results: Lee Plant
June 1995

| | Benzene ppm | Toluene ppm | Ethyl Benzene ppm | Xylenes ppm |
|----------------------|----------------|----------------|----------------------|----------------|
| WQCC Stds | 0.010 | 0.750 | 0.750 | 0.620 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.0010 | 0.0011 | <0.0010 | <0.0030 |
| Duplicate MW-11 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-12 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-13 | <0.0010 | <0.0010 | <0.0010 | <0.0030 |
| MW-19 | 0.0031 | 0.0038 | 0.0018 | <0.0034 |
| MW-20 | <0.0010 | <0.0010 | <0.0010 | 0.0030 |
| Trip Blank | <0.0010 | <0.0010 | <0.0010 | <0.0030 |

* Values shown in bold are above WQCC Standards

\3023\2NDQRT95.WQ2:B



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : GPM Buckeye

JOB NUMBER : H95-2994
REPORT DATE : 2-JUN-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------------|--------|--------------|
| 1 | 9505241020 MW-19 | Water | 24-MAY-1995 |
| 2 | 9505241100 MW-20 | Water | 24-MAY-1995 |
| 3 | 9505241145 MW-13 | Water | 24-MAY-1995 |
| 4 | 9505241210 MW-12 | Water | 24-MAY-1995 |

| BTEX ANALYSIS, EPA 602 | 1 | 2 | 3 | 4 |
|-------------------------------|-----|-------|-------|-------|
| Benzene $\mu\text{g/L}$ | 3.1 | < 1.0 | < 1.0 | < 1.0 |
| Toluene $\mu\text{g/L}$ | 3.8 | < 1.0 | < 1.0 | < 1.0 |
| Ethyl benzene $\mu\text{g/L}$ | 1.8 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes $\mu\text{g/L}$ | 3.4 | < 3.0 | < 3.0 | < 3.0 |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : GPM Buckeye

JOB NUMBER : H95-2994
REPORT DATE : 2-JUN-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|-----------------------|--------|--------------|
| 5 | 9505241245 MW-11 | Water | 24-MAY-1995 |
| 6 | 9505241345 MW-11d | Water | 24-MAY-1995 |
| 7 | 9505241400 Trip Blank | Water | 3-MAY-1995 |
| 8 | Method Blank | Water | 25-MAY-1995 |

| BTEX ANALYSIS, EPA 602 | | 5 | 6 | 7 | 8 |
|------------------------|------|-------|-------|-------|-------|
| Benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/L | 1.1 | < 1.0 | < 1.0 | < 1.0 |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes | µg/L | < 3.0 | < 3.0 | < 3.0 | < 3.0 |



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DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-1

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241020
: MW-19
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 24-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 26-MAY-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | |
|----------------|---------------------|---------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | 3.1 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | 3.8 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | 1.8 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | 3.4 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 117 % |



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DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-2

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241100
: MW-20
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 24-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 26-MAY-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | |
|----------------|-----------------|------|---------|----------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 129 % |



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DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-3

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241145
: MW-13
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 24-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 26-MAY-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | < 3.0 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 127 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
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Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-4

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241210
: MW-12
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 24-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 26-MAY-1995
DILUTION FACTOR : 1

| BTX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 128 % |



Inchcape Testing Services

NDRC Laboratories

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Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-5

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water

ID MARKS : 9505241245

: MW-11

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 24-MAY-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : M. Tobias

ANALYZED ON : 31-MAY-1995

DILUTION FACTOR : 1

| BTX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | 1.1 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | < 3.0 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 104 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-5

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241245
: MW-11
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 24-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 31-MAY-1995
DILUTION FACTOR : 1

| BTX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|----------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | | 1.0 | µg/L | | 1.1 µg/L |
| Ethyl benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 104 % |



Inchcape Testing Services

NDRC Laboratories

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Houston, TX 77025
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Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-6

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water

ID MARKS : 9505241345

: MW-11d

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 24-MAY-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : M. Tobias

ANALYZED ON : 27-MAY-1995

DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 130 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-7

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9505241400
: Trip Blank
PROJECT : GPM Buckeye
PURCHASE ORDER NO : 3023-002
DATE SAMPLED : 3-MAY-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : M. Tobias
ANALYZED ON : 27-MAY-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 132 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994-8

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water

ID MARKS : Method Blank

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

DATE SAMPLED : 25-MAY-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : M. Tobias

ANALYZED ON : 26-MAY-1995

DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|----------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 115 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

REPORT DATE : 2-JUN-1995

REPORT NUMBER : H95-2994

SAMPLE SUBMITTED BY : GCL

ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| BATCH NO. | 8020D_565 | 8020D_565 | 8020D_565 | 8020D_565 |
| LCS LOT NO. | --- | --- | --- | --- |
| PREP METHOD | --- | --- | --- | --- |
| DATE PREPARED | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 602 | EPA 602 | EPA 602 | EPA 602 |
| DATE ANALYZED | 26-MAY-1995 | 26-MAY-1995 | 26-MAY-1995 | 26-MAY-1995 |
| ANALYZED BY | MHT | MHT | MHT | MHT |
| UNITS | $\mu\text{g/L}$ | $\mu\text{g/L}$ | $\mu\text{g/L}$ | $\mu\text{g/L}$ |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 3.00 |
| MS RECOVERY % | 102 | 108 | 113 | 112 |
| MSD RECOVERY % | 102 | 110 | 112 | 113 |
| MS/MSD RPD % | 0.4 | 1.7 | 1.1 | 0.6 |
| BS RECOVERY % | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA |
| BS/BSD RPD % | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA |
| LCS RECOVERY % | 91.2 | 102 | 103 | 103 |
| SPIKE SAMPLE ID | 2991-5 | 2991-5 | 2991-5 | 2991-5 |
| DUP SAMPLE ID | --- | --- | --- | --- |

NA

Not Applicable



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

REPORT DATE : 2-JUN-1995

REPORT NUMBER : H95-2994

SAMPLE SUBMITTED BY : GCL

ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------------|-------------|-------------|--------------|-------------|
| BATCH NO. | 8020D_572 | 8020D_572 | 8020D_572 | 8020D_572 |
| LCS LOT NO. | --- | --- | --- | --- |
| PREP METHOD | --- | --- | --- | --- |
| DATE PREPARED | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 602 | EPA 602 | EPA 602 | EPA 602 |
| DATE ANALYZED | 31-MAY-1995 | 31-MAY-1995 | 31-MAY-1995 | 31-MAY-1995 |
| ANALYZED BY | MHT | MHT | MHT | MHT |
| UNITS | µg/L | µg/L | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 3.00 |
| MS RECOVERY % | 89.6 | 100 | 106 | 106 |
| MSD RECOVERY % | 93.4 | 102 | 109 | 109 |
| MS/MSD RPD % | 4.2 | 2.0 | 2.8 | 2.5 |
| BS RECOVERY % | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA |
| BS/BSD RPD % | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA |
| LCS RECOVERY % | 97.0 | 108 | 110 | 109 |
| SPIKE SAMPLE ID | 2974-5 | 2974-5 | 2974-5 | 2974-5 |
| DUP SAMPLE ID | --- | --- | --- | --- |

NA

Not Applicable

To Agent Assuming Sample Custody

RE: CHAIN-OF-CUSTODY PROCEDURES

Please return the signed, white "original" copy of the enclosed chain-of-custody form and mail to Geoscience Consultants, Ltd. (GCL) in the enclosed, stamped, self-address envelope. Your prompt attention to this request will be greatly appreciated.

Upon receipt of samples, if any discrepancy exists between written and verbal instructions for analysis requested, please call Annette Montoya immediately at (505) 842-0001 before any sample preparation takes place. If Annette is not available, contact Dwayne Salisbury at the same number.

Please include a copy of the chain-of-custody with the final analytical report (one report per chain-of-custody), invoice, or any correspondence regarding the analysis in question.

PLEASE RETURN COOLERS AND BLUE ICE

Sincerely,
Geoscience Consultants, Ltd. (GCL)

Dec 6-1-95

RECEIVED JUN U 8 1995



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

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

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

No 8455

Chain of Custody

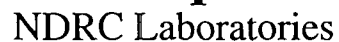
Date 5/24/95 Page 1 of 1

| Analysis Request | | | | | | | | | |
|--|--------|------------|----------------------|------------------------------|------------------------|--------------|------------|-------------|-------------|
| Lab Name NDRG/Inchcape Testing Service | | | | | | | | | |
| Address 11155 South Main | | | | | | | | | |
| Houston, TX 77025 | | | | | | | | | |
| Telephone (713) 661-8150 | | | | | | | | | |
| Samplers (SIGNATURES) | | | | | | | | | |
| Sample Number | Matrix | Location | Number of Containers | Chemical Oxygen Demand (COD) | Cyanide Total/Amenable | Oil & Grease | Reactivity | Corrosivity | Flash Point |
| 7505241020 | H2O | MW-19 | 3 | -1 | 29941 | | | 1495 | |
| 7505241100 | H2O | MW-20 | 3 | 2 | | | | | |
| 7505241145 | H2O | MW-13 | 3 | 3 | | | | | |
| 7505241210 | H2O | MW-12 | 3 | 4 | | | | | |
| 7505241245 | H2O | MW-11 | 3 | 5 | | | | | |
| 7505241345 | H2O | MW-11d | 3 | 6 | | | | | |
| 7505241400 | H2O | Trip Blank | 2 | 7 | | | | | |

| Project Information | | Sample Receipt | | Relinquished By | | Relinquished By | | Relinquished By | |
|--------------------------------|----------------------------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| Project GPM Buckeye | Total No. of Containers 48 | Signature DAVID NEE | 1405 | Signature | (Time) | Signature | (Time) | Signature | (Time) |
| Project Director Gannon | Chain of Custody Seals 24 | (Printed Name) | (Date) | (Printed Name) | (Date) | (Printed Name) | (Date) | (Printed Name) | (Date) |
| Charge Code No. 3023-002 | Rec'd Good Condition/Cold | Company | Received By | Company | Received By | Company | Received By | Company | Received By |
| Shipping ID. No. 0218935205 | Conforms to Record | Company | (Signature) | Company | (Signature) | Company | (Signature) | Company | (Signature) |
| Via: FED X | Lab No. | Company | (Time) | Company | (Time) | Company | (Time) | Company | (Time) |
| Special Instructions/Comments: | | Company | (Date) | Company | (Date) | Company | (Date) | Company | (Date) |

20-10-11 1045

Distribution: White, Canary-Laboratory • Pink, GCL



SAMPLE PRESERVATION INFORMATION SHEET

Job No.: 2994

Temperature of Cooler(s): 4°C

CONTAINERS USED

- A - Amber
G - Clear Glass
V - VOA
- P - Plastic
T - Tedlar
Tb - Tube

Preserved by

Date _____

ORIGINAL

RECEIVED JUN 08 1995



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 25-MAY-1995

REPORT NUMBER : H95-2994

REPORT DATE : 2-JUN-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

PROJECT : GPM Buckeye

PURCHASE ORDER NO : 3023-002

The enclosed results of analyses are representative of the sample(s) as received by the laboratory. Inchcape makes no representations or certifications as to the method of sample collection, sample identification, or transportation/handling procedures used by non-Inchcape personnel. Field Sampling protocol and sampling plans used by Inchcape personnel are developed and/or provided by the client. To the best of my knowledge, the information contained in this report is accurate and complete.

Ruei-Mei Li
Technical Director

6/2/95
Date

Robert R. Barrientos
Project Manager

6/2/95
Date

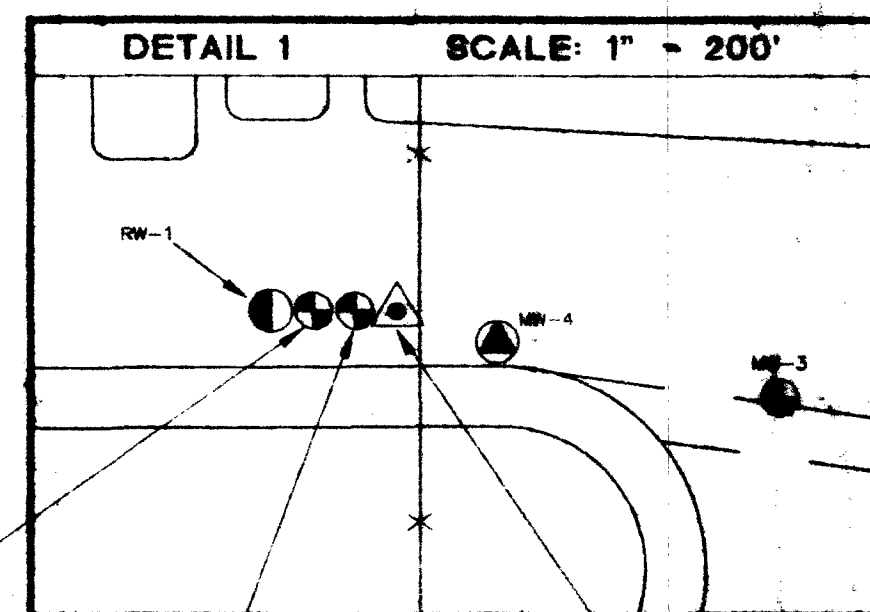
NORTH EVAPORATION POND
(ABANDONED)

| | | | | | | | | | | |
|-------|-----|----|----|----|------|----|----|----|------|----|
| MW-18 | I | J | K | L | M | N | O | P | Q | S |
| B | 420 | NS | NS | NS | 1190 | NS | NS | NS | 1860 | NS |
| T | 77 | NS | NS | NS | 157 | NS | NS | NS | 120 | NS |
| E | 8 | NS | NS | NS | 30 | NS | NS | NS | 120 | NS |
| X | 8 | NS | NS | NS | 48.0 | NS | NS | NS | <300 | NS |

| | |
|-------|-------|
| MW-15 | S |
| B | 6,240 |
| T | 0.981 |
| E | 0.087 |
| X | 0.214 |

| | |
|------|--------|
| MW-6 | S |
| B | 18,800 |
| T | 17,000 |
| E | 1,760 |
| X | 3,100 |

TEXACO
OIL WELL



| | | | | | | |
|-------|--------|------|------|------|--------|---|
| MW-22 | (MID.) | M | P | Q | APR | S |
| B | 170 | 6.6 | 4.7 | 2520 | <0.001 | T |
| T | 65.0 | 2.4 | 1.1 | 280 | <0.001 | E |
| E | 36.0 | <1.0 | <1.0 | <100 | <0.001 | X |
| X | 48.0 | 7.1 | <3.0 | <300 | <0.003 | |

| | | | | | | |
|-------|---------|------|------|------|--------|---|
| MW-21 | (SHAL.) | B | P | Q | APR | S |
| B | 37000 | 517 | 77.7 | 5.6 | 0.042 | T |
| T | 5000 | 52 | 51.1 | <1.0 | <0.001 | E |
| E | <2000 | <1.0 | <1.0 | <1.0 | <0.001 | X |
| X | <8000 | <3.0 | 10.5 | <3.0 | <0.003 | |

| | | | | |
|-------|--------|----|---|---|
| MW-23 | (DEEP) | B | M | S |
| B | 190 | NS | | |
| T | 130 | NS | | |
| E | 10 | NS | | |
| X | 46 | NS | | |

| | | | | | | | | | | |
|-------|----|----|----|----|------|----|-----|----|------|------|
| MW-18 | I | J | K | L | M | N | O | P | Q | S |
| B | 23 | NS | NS | NS | 10.7 | NS | <1 | NS | 56.5 | <1.0 |
| T | 6 | NS | NS | NS | 28.9 | NS | 2.1 | NS | 8.3 | 2.0 |
| E | 2 | NS | NS | NS | <2.0 | NS | <1 | NS | 2.3 | <1.0 |
| X | 1 | NS | NS | NS | 12.1 | NS | <3 | NS | <3.0 | <3.0 |

| | |
|-------|----|
| MW-17 | S |
| B | 62 |
| T | 20 |
| E | 4 |
| X | 10 |

| | | | | | | | | | | | |
|------|--------------|----|----|---|----|----|----|----|----|------|----|
| WS-1 | (WATER WELL) | I | J | K | L | M | N | O | P | Q | S |
| B | 15 | NS | NS | 7 | NS | NS | NS | NS | NS | 19.5 | NS |
| T | 3 | NS | NS | 3 | NS | NS | NS | NS | NS | <1.0 | NS |
| E | 3 | NS | NS | 2 | NS | NS | NS | NS | NS | 2.3 | NS |
| X | 2 | NS | NS | 2 | NS | NS | NS | NS | NS | <3.0 | NS |

| | | | | | | |
|------|----|--------|----|----|----|----|
| MW-8 | I | J | K | L | M | S |
| B | NS | 13,000 | NS | NS | NS | NS |
| T | NS | 300 | NS | NS | NS | NS |
| E | NS | 370 | NS | NS | NS | NS |
| X | NS | 180 | NS | NS | NS | NS |

| | | | | | | | |
|------|--------------|----|----|----|------|----|----|
| WS-2 | (WATER WELL) | I | J | K | L | M | S |
| B | 460 | NS | NS | NS | 1800 | NS | NS |
| T | 11 | NS | NS | NS | <1.0 | NS | NS |
| E | 5 | NS | NS | NS | 19 | NS | NS |
| X | 2 | NS | NS | NS | 14 | NS | NS |

SEE DETAIL 1

| | | | | | | | | | | |
|------|-----|-------|-------|------|------|----|----|----|-----|----|
| MW-9 | I | J | K | L | M | N | O | P | Q | S |
| B | 310 | 3,000 | 5,900 | 2200 | 673 | NS | NS | NS | 495 | NS |
| T | 4 | 280 | 3.8 | 11 | 314 | NS | NS | NS | <10 | NS |
| E | 10 | 110 | 22.0 | 20 | 28.8 | NS | NS | NS | <10 | NS |
| X | 5 | 120 | 11.0 | 40 | 89.4 | NS | NS | NS | <30 | NS |

| | | | | | | | | | | |
|------|----|----|----|----|------|----|------|----|------|----|
| MW-2 | I | J | K | L | M | N | O | P | Q | S |
| B | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| T | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| E | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| X | ND | NS | NS | NS | <6.0 | NS | <3.0 | NS | <3.0 | NS |

| | | | | | | | | | | |
|-------|-------|----|----|----|------|----|----|----|------|----|
| MW-10 | I | J | K | L | M | N | O | P | Q | S |
| B | 3,900 | NS | NS | NS | 3.5 | NS | NS | NS | 4180 | NS |
| T | 16 | NS | NS | NS | <2.0 | NS | NS | NS | 210 | NS |
| E | 12 | NS | NS | NS | <2.0 | NS | NS | NS | 230 | NS |
| X | 5 | NS | NS | NS | NS | NS | NS | NS | 860 | NS |

| | | | | | | | | | | |
|------|---|----|----|----|------|----|----|----|-----|----|
| MW-7 | I | J | K | L | M | N | O | P | Q | S |
| B | 1 | NS | NS | NS | 40.4 | NS | NS | NS | 2.8 | NS |
| T | 1 | NS | NS | NS | 570 | NS | NS | NS | 1.8 | NS |
| E | 1 | NS | NS | NS | <10 | NS | NS | NS | 1.2 | NS |
| X | 1 | NS | NS | NS | 1270 | NS | NS | NS | 5.0 | NS |

| | | | | | | | | | | |
|-------|----|----|-----|----|----|----|----|----|----|----|
| MW-14 | I | J | K | L | M | N | O | P | Q | S |
| B | 11 | 43 | 19 | 13 | NS | NS | NS | NS | NS | NS |
| T | 3 | 99 | <1 | 3 | NS | NS | NS | NS | NS | NS |
| E | 1 | 19 | <1 | 3 | NS | NS | NS | NS | NS | NS |
| X | 1 | 45 | 1.2 | 6 | NS | NS | NS | NS | NS | NS |

| | | | | | | | | | | | | |
|-------|----|-----|-----|------|------|------|------|------|------|------|------|------|
| MW-11 | I | J | K | L | M | N | O | P | Q | R | S | T |
| B | 31 | 78 | 1.3 | 1.1 | 15.5 | <2.0 | 3.7 | <1.0 | 1.9 | <1.0 | <1.0 | <1.0 |
| T | 7 | 130 | <1 | <1.0 | 31.3 | <2.0 | 5.8 | <1.0 | 1.1 | 2.0 | 2.0 | 1.1 |
| E | 2 | 22 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 1 | 51 | 1.1 | <1.0 | 11.6 | <6.0 | 3.7 | 3.9 | <3.0 | <3.0 | 3.0 | <3.0 |

| | | | | | | | | | | | | |
|-------|----|-----|------|------|------|------|------|------|------|------|------|------|
| MW-12 | I | J | K | L | M | N | O | P | Q | R | S | T |
| B | 18 | 64 | 67.0 | 30.0 | 11.4 | <2.0 | 2.6 | <1.0 | 3.7 | <1.0 | <1.0 | <1.0 |
| T | 4 | 130 | 1.1 | <1.0 | 29.2 | <2.0 | 4.0 | 1.6 | <1.0 | <1.0 | 3.0 | <1.0 |
| E | 1 | 24 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 1 | 56 | <1 | <1.0 | 12.1 | <6.0 | <3.0 | 4.1 | <3.0 | <3.0 | 9.0 | <3.0 |

| | | | | | | | | | | | | |
|-------|----|----|----|----|------|------|------|------|------|------|-----|-----|
| MW-19 | I | J | K | L | M | N | O | P | Q | R | S | T |
| B | 14 | NS | NS | NS | 15.3 | 11.2 | 2.5 | <1.0 | 5.4 | <1.0 | 7.9 | 3.1 |
| T | 4 | NS | NS | NS | 35.8 | 12.3 | 3.4 | <1.0 | <1.0 | <1.0 | 26 | 3.8 |
| E | 2 | NS | NS | NS | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5 | 1.8 |
| X | 1 | NS | NS | NS | 13.5 | <6.0 | <3.0 | <3.0 | <3.0 | <3.0 | 11 | 3.4 |

| | | | | | | | | | | | | |
|-------|----|-----|-------|------|------|------|------|------|------|------|------|------|
| MW-13 | I | J | K | L | M | N | O | P | Q | R | S | T |
| B | 16 | 94 | 28.13 | 14.6 | 28.6 | 2.4 | <1.0 | 6.5 | <1.0 | <1.0 | <1.0 | <1.0 |
| T | 4 | 150 | <1 | <1.0 | 34.3 | 28.6 | 3.4 | <1.0 | 1.2 | <1.0 | 3.0 | <1.0 |
| E | 1 | 26 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| X | 1 | 62 | <1 | <1.0 | 13.4 | 10.2 | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | <1.0 |

LEGEND

- MONITOR WELL
 - MONITOR WELL SAMPLED ANNUALLY
 - SUPPLY WELL
 - ▲ MONITOR WELL SAMPLED QUARTERLY
 - MONITOR WELL SAMPLED SEMI-ANNUALLY
 - RECOVERY WELL SAMPLED ANNUALLY
 - PRODUCT RECOVERY WELL
 - INJECTION WELL
 - VAPOR EXTRACTION/RECOVERY WELL
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - I ANALYTICAL RESULTS FROM JULY 1992
 - J ANALYTICAL RESULTS FROM OCTOBER 1992
 - K ANALYTICAL RESULTS FROM JANUARY 1993
 - L ANALYTICAL RESULTS FROM APRIL 1993
 - M ANALYTICAL RESULTS FROM JULY 1993
 - N ANALYTICAL RESULTS FROM OCTOBER 1993
 - O ANALYTICAL RESULTS FROM JANUARY 1994
 - APR ANALYTICAL RESULTS FOR APRIL 1994
 - P ANALYTICAL RESULTS FROM MAY 1994
 - Q ANALYTICAL RESULTS FROM JULY 1994
 - R ANALYTICAL RESULTS FROM OCTOBER 1994
 - S ANALYTICAL RESULTS FROM MARCH 1995
 - T ANALYTICAL RESULTS FROM JUNE 1995
 - NA NOT AVAILABLE
 - ND NO DETECTION
 - NS NOT SAMPLED
 - NI NOT INSTALLED AT THE DATE OF SAMPLING
 - TPH TOTAL PETROLEUM HYDROCARBONS
 - mg/l MILLIGRAMS PER LITER
 - SAMPLING FOR TPH DISCONTINUED
- NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER UNLESS OTHERWISE STATED.
WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.

REPRODUCTION OF DOCUMENTS
IN THIS FILE CANNOT BE
IMPROVED DUE TO CONDITION
OF ORIGINALS

NOTE: BOLDED NUMBERS SUGGEST DATA POINTS USED IN CONTOURING.

RECEIVED

JUL 13 1995

Environmental Bureau
Oil Conservation Division



SCALE: 1" = 100'

GCL



PLATE 1
ANALYTICAL RESULTS (ppb)
LEE PLANT

CLIENT: GPM GAS CORPORATION

DATE: JUNE 1995

CHECKED BY: M. GANNON

DRAWN BY: MP

DWG. NO. 8TEXTV8.DWG



Analytical Technologies, Inc.

CLIENT : NM OIL CONSERVATION DIV. DATE RECEIVED : 03/17/95
PROJECT # : (NONE)
PROJECT NAME : PHILLIPS LEE GAS PLANT REPORT DATE : 04/10/95

ATI ID: 503354

| ATI # | CLIENT DESCRIPTION | MATRIX | DATE COLLECTED |
|-------|----------------------|---------|----------------|
| 01 | CLAVE JONES WINDMILL | AQUEOUS | 03/15/95 |
| 02 | MW-12 | AQUEOUS | 03/16/95 |
| 03 | MW-11 | AQUEOUS | 03/16/95 |
| 04 | MW-13 | AQUEOUS | 03/16/95 |
| 05 | MW-15 | AQUEOUS | 03/16/95 |
| 06 | MW-6 | AQUEOUS | 03/16/95 |
| 07 | MW-19 | AQUEOUS | 03/16/95 |
| 08 | MW-17 | AQUEOUS | 03/16/95 |

---TOTALS---

| | |
|---------------|-----------------|
| <u>MATRIX</u> | <u>#SAMPLES</u> |
| AQUEOUS | 8 |

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : NM OIL CONSERVATION DIV. ATI I.D.: 503354
PROJECT # : (NONE)
PROJECT NAME : PHILLIPS LEE GAS PLANT

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|-----------------|-------------|---------|-----------------|-------------------|------------------|----------------|
| 02 | MW-12 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 1 |
| 03 | MW-11 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 1 |
| 04 | MW-13 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 1 |
| PARAMETER | | | UNITS | 02 | 03 | 04 |
| BENZENE | | | UG/L | 0.6 | <0.5 | 0.6 |
| TOLUENE | | | UG/L | 2.0 | 1.6 | 1.4 |
| ETHYLBENZENE | | | UG/L | <0.5 | <0.5 | <0.5 |
| TOTAL XYLENES | | | UG/L | 2.7 | 2.2 | 2.2 |

SURROGATE:

| | | | |
|------------------------|----|----|-----|
| BROMOFLUOROBENZENE (%) | 89 | 93 | 100 |
|------------------------|----|----|-----|



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : NM OIL CONSERVATION DIV. ATI I.D.: 503354
PROJECT # : (NONE)
PROJECT NAME : PHILLIPS LEE GAS PLANT

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|-----------------|-------------|---------|-----------------|-------------------|------------------|----------------|
| 05 | MW-15 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 100 |
| 06 | MW-6 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 100 |
| 07 | MW-19 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 1 |
| PARAMETER | | | UNITS | 05 | 06 | 07 |
| BENZENE | | | UG/L | 4700 | 15000 | 59 |
| TOLUENE | | | UG/L | 720 | 14000 | 21 |
| ETHYLBENZENE | | | UG/L | 76 | 1500 | 3.8 |
| TOTAL XYLENES | | | UG/L | 120 | 2400 | 8.4 |

SURROGATE:

| | | | |
|------------------------|----|----|----|
| BROMOFLUOROBENZENE (%) | 95 | 89 | 96 |
|------------------------|----|----|----|



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : NM OIL CONSERVATION DIV. ATI I.D.: 503354
PROJECT # : (NONE)
PROJECT NAME : PHILLIPS LEE GAS PLANT

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---------------|-------------|---------|--------------|----------------|---------------|-------------|
| 08 | MW-17 | AQUEOUS | 03/16/95 | NA | 03/20/95 | 1 |
| PARAMETER | | | UNITS | | | |
| BENZENE | | | UG/L | 48 | | |
| TOLUENE | | | UG/L | 16 | | |
| ETHYLBENZENE | | | UG/L | 3.2 | | |
| TOTAL XYLENES | | | UG/L | 7.6 | | |

SURROGATE:

BROMOFLUOROBENZENE (%) 98



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

| | | | |
|--------------|----------------------------|-----------------|------------|
| TEST | : BTEX (EPA 8020) | ATI I.D. | : 503354 |
| BLANK I.D. | : 032095 | MATRIX | : AQUEOUS |
| CLIENT | : NM OIL CONSERVATION DIV. | DATE EXTRACTED | : NA |
| PROJECT # | : (NONE) | DATE ANALYZED | : 03/20/95 |
| PROJECT NAME | : PHILLIPS LEE GAS PLANT | DILUTION FACTOR | : 1 |

| PARAMETER | UNITS | |
|---------------|-------|------|
| BENZENE | UG/L | <0.5 |
| TOLUENE | UG/L | <0.5 |
| ETHYLBENZENE | UG/L | <0.5 |
| TOTAL XYLENES | UG/L | <0.5 |

SURROGATE:

| | |
|------------------------|----|
| BROMOFLUOROBENZENE (%) | 96 |
|------------------------|----|



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : BTEX (EPA 8020)
MSMSD # : 50335404 ATI I.D. : 503354
CLIENT : NM OIL CONSERVATION DIV. DATE EXTRACTED : NA
PROJECT # : (NONE) DATE ANALYZED : 03/20/95
PROJECT NAME : PHILLIPS LEE GAS PLANT SAMPLE MATRIX : AQUEOUS
REF. I.D. : 50335404 UNITS : UG/L

| PARAMETER | SAMPLE RESULT | CONC SPIKE | SPIKED SAMPLE | % REC | DUP SPIKE | DUP % REC | RPD |
|---------------|------------------|---------------|------------------|----------|--------------|--------------|-----|
| BENZENE | 0.6 | 10 | 9.6 | 90 | 9.1 | 85 | 5 |
| TOLUENE | 1.4 | 10 | 11 | 96 | 10 | 86 | 10 |
| ETHYLBENZENE | <0.5 | 10 | 9.7 | 97 | 9.5 | 95 | 2 |
| TOTAL XYLENES | 2.2 | 30 | 30 | 93 | 29 | 89 | 3 |

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

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

ATI# 503354

[illegible]



Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 3/17/95 PAGE 1 OF 1

| NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI | | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|-----------|--|------|------|--------|--------|
| COMPANY: Analytical Technologies, Inc. ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107 | | | | | TOX ORGANIC LEAD SULFIDE SURFACTANTS (MBAS) 632/632 MOD 619/619 MOD 610/8310 ALPHA-5, BETA-5, GAMA-5, H (CALIF, P, B, M, G, M, H, G) 8240 (TCLP 1311) ZHE N, K, S, E, W, A, T, V, H, Z Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020) Volatile Organics GC/MS (624/8240) NACE ASBESTOS BOD TOTAL COLIFORM FECAL COLIFORM GROSS ALPHA/BETA RADIUM 226/228 AIR - O2, CO2, METHANE AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020) NUMBER OF CONTAINERS | | | | | | | | | | SAMPLE ID | | DATE | TIME | MATRIX | LAB ID |
| | | | | | | | | | | | | | | | 503354-01 | | 3/15 | 1300 | AB | 1 |
| CLIENT PROJECT MANAGER: | | | | | | | | | | | | | | | | | | | | |
| PROJECT INFORMATION | | | | | SAMPLE RECEIPT | | | | | RELINQUISHED BY: | | | | | | | | | | |
| PROJECT NUMBER: 503354 | | | | | TOTAL NUMBER OF CONTAINERS: 2 | | | | | 1. Signature: [Signature] Time: 1330 | | | | | | | | | | |
| PROJECT NAME: EMNL | | | | | CHAIN OF CUSTODY SEALS: JA | | | | | Printed Name: [Signature] Date: 3/17/95 | | | | | | | | | | |
| QC LEVEL: STD IV | | | | | INTACT?: Y | | | | | Analytical Technologies, Inc. Albuquerque | | | | | | | | | | |
| QC REQUIRED: MS MSD BLANK | | | | | RECEIVED GOOD COND/COLD: Y | | | | | RECEIVED BY: (LAB) 1. Signature: [Signature] Time: 1155 | | | | | | | | | | |
| TAT: (STANDARD) RUSHI | | | | | LAB NUMBER | | | | | Printed Name: [Signature] Date: 3/18/95 | | | | | | | | | | |
| DUE DATE: 3/31 | | | | | FIBERQUANT | | | | | Company: [Signature] | | | | | | | | | | |
| RUSH SURCHARGE: see quote | | | | | | | | | | Company: [Signature] | | | | | | | | | | |
| CLIENT DISCOUNT: see quote | | | | | | | | | | Company: [Signature] | | | | | | | | | | |

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical Technology Contract No. 95-521.07-040OCD Sample No. 950316 0845

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|-----------------------------|---|--|--|---|--|---|--|--|--|--|--|--|--|---|--|--|---|--|---|--|
| Collection Date | Collection Time | Collected by —Person/Agency | | | | | | | | | | | | | | | | | | | | |
| <u>3/16/95</u> | <u>0845</u> | <u>O/son</u> | | | | | | | | | | | | | | | | | | | | |
| OCD | | | | | | | | | | | | | | | | | | | | | | |
| SITE INFORMATION <u>Phillips Lee Gcs Plant</u> | | | | | | | | | | | | | | | | | | | | | | |
| Sample location <u>MW-12</u> | | | | | | | | | | | | | | | | | | | | | | |
| Collection Site Description | | | | | | | | | | | | | | | | | | | | | | |
| Township, Range, Section, Tract: | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td>+</td><td></td><td></td><td>+</td><td></td><td>+</td><td></td> </tr> </table> | | | | | | | | | | | | | | | | + | | | + | | + | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | + | | | + | | + | | | | | | | | | | | | | | |

SEND ENVIRONMENTAL BUREAU
FINAL NM OIL CONSERVATION DIVISION
REPORT PO Box 2088
TO Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ m membrane filter
☐ PF: Pre-filtered w/45 μ m membrane filter
- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
- ☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ H₂SO₄

FIELD COMMENTS:

SAMPLING CONDITIONS

Water level

- ☐ Bailed ☒ Pump
☐ Dipped ☐ Tap

Discharge

Sample type

Conductivity (Uncorrected)

Conductivity at 25° C

pH(00400) 6.85

Water Temp. (00010)

67.5°F1730 μ mho4 μ mho

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical TechnologyContract No. 95-521.07-040OCD Sample No. 9503160930

| | | |
|----------------------------------|-----------------|------------------------------|
| Collection Date | Collection Time | Collected by — Person/Agency |
| <u>3/16/95</u> | <u>0930</u> | <u>Olson</u> |
| SITE INFORMATION | | |
| <u>Phillips Lee Gas Plant</u> | | |
| Sample location | | |
| <u>MW-11</u> | | |
| Collection Site Description | | |
| | | |
| Township, Range, Section, Tract: | | |
| | | |

SEND
FINAL
REPORT
TO
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ membrane filter
☐ PF: Pre-filtered w/45 μ membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ HgCl

FIELD COMMENTS:

SAMPLING CONDITIONS

Water level

- ☐ Bailed
☐ Dipped
☒ Pump
☐ Tap

Discharge

Sample type

pH(00400) 6.78

Conductivity (Uncorrected)

Water Temp. (00010)

68.8°F

Conductivity at 25° C

2310 μ mho μ mho

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical TechnologyContract No. 95-521.07-040OCD Sample No. 950316 1030

| | | | |
|--|-----------------|----------------------------|-----|
| Collection Date | Collection Time | Collected by—Person/Agency | |
| <u>3/16/95</u> | <u>1030</u> | <u>O/son</u> | OCD |
| SITE INFORMATION <u>Phillips Lee Gas Plant</u> | | | |
| Sample location <u>MW-13</u> | | | |
| Collection Site Description | | | |
| | | | |
| Township, Range, Section, Tract: | | | |
| | | | |

SEND
FINAL
REPORT
TO ↓ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ membrane filter
☐ PF: Pre-filtered w/45 μ membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ HgCl

SAMPLING CONDITIONS

Water level

- ☐ Bailed ☒ Pump
☐ Dipped ☐ Tap

Discharge

Sample type

pH(00400) 6.65

Conductivity (Uncorrected)

Water Temp. (00010)

67.9 °F

Conductivity at 25° C

FIELD COMMENTS:

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical TechnologyContract No. 95-521.07-040OCD Sample No. 9503161300

| | | | |
|---|-----------------|----------------------------|-----|
| Collection Date | Collection Time | Collected by—Person/Agency | |
| <u>3/16/95</u> | <u>1300</u> | <u>Olsen</u> | OCD |
| SITE INFORMATION | | | |
| Sample location <u>Phillips Lee Gas Plant</u> | | | |
| Collection Site Description <u>MW-15</u> | | | |
| Township, Range, Section, Tract: | | | |
| + + + | | | |

SEND
FINAL
REPORT
TO ↓

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ m membrane filter
☐ PF: Pre-filtered w/45 μ m membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
- ☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ H₂SO₄

FIELD COMMENTS:

SAMPLING CONDITIONS

Water level

- ☐ Bailed ☒ Pump
☐ Dipped ☐ Tap

Discharge

Sample type

pH(00400) 6.81

Conductivity (Uncorrected)

Water Temp. (00010)

68.9°F

Conductivity at 25°C

grab
800 μ mho
4 mho

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical TechnologyContract No. 95-521.07-040OCD Sample No. 9503161310

| | | |
|----------------------------------|-----------------|----------------------------|
| Collection Date | Collection Time | Collected by—Person/Agency |
| <u>3/16/95</u> | <u>1310</u> | <u>Olson</u> |
| SITE INFORMATION | | |
| <u>Phillips Lee Gas Plant</u> | | |
| Sample location | | |
| <u>MW-6</u> | | |
| Collection Site Description | | |
| | | |
| | | |
| Township, Range, Section, Tract: | | |
| | | |

SEND
FINAL
REPORT
TO ↓

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ membrane filter
☐ PF: Pre-filtered w/45 μ membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
- ☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ H₂Cl

FIELD COMMENTS:

SAMPLING CONDITIONS

Water level

- ☐ Bailed ☒ Pump
☐ Dipped ☐ Tap

Discharge

Sample type

pH(00400)

Conductivity(uncorrected)

Water Temp. (00010)

Conductivity at 25° C

 μ mho μ mho

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab Analytical TechnologyContract No. 95-521.07-040OCD Sample No. 9503161400

| | | |
|-------------------------------|-----------------|---|
| Collection Date | Collection Time | Collected by—Person/Agency |
| <u>3/16/95</u> | <u>1400</u> | <u>Olsen</u> |
| SITE INFORMATION | | |
| <u>Phillips Lee Gas Plant</u> | | |
| Sample location | | |
| <u>MW-19</u> | | |
| Collection Site Description | | |
| <u>pumping recovery well</u> | | |
| | | Township, Range, Section, Tract: |
| | | <u> </u> <u> </u> <u> </u> <u> </u> |

SEND ENVIRONMENTAL BUREAU
FINAL NM OIL CONSERVATION DIVISION
REPORT PO Box 2088
TO Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ membrane filter
☐ PF: Pre-filtered w/45 μ membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ H₂SO₄

FIELD COMMENTS:

| | |
|--|--|
| SAMPLING CONDITIONS | Water level |
| | Discharge |
| | Sample type |
| | Conductivity (Uncorrected) |
| | Conductivity at 25° C |
| <input type="checkbox"/> Bailed <input type="checkbox"/> Dipped | <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Tap |
| pH(00400) | <u>6.43</u> |
| Water Temp. (00010) | <u>67.7 °F</u> |
| | <u>grab</u> |
| | <u>1750</u> μ mho |
| | <u> </u> μ mho |

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab

Analytical Technology

Contract No.

95-521.07-040OCD Sample No. 9503161440

| | | | |
|-------------------------------|-----------------|----------------------------|----------------------------------|
| Collection Date | Collection Time | Collected by—Person/Agency | |
| <u>3/16/95</u> | <u>1440</u> | <u>Olson</u> | OCD |
| SITE INFORMATION | | | |
| <u>Phillips Lee Gas Plant</u> | | | |
| Sample location | | | |
| <u>MW-17</u> | | | |
| Collection Site Description | | | |
| | | | |
| | | | |
| | | | Township, Range, Section, Tract: |
| | | | + + + |

SEND ENVIRONMENTAL BUREAU
FINAL NM OIL CONSERVATION DIVISION
REPORT PO Box 2088
TO Santa Fe, NM 87504-2088

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted: 2

- ☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 μ membrane filter
☐ PF: Pre-filtered w/45 μ membrane filter

- ☐ NA: No acid added
☐ A: HCL
☐ A: 2ml H₂SO₄/L added
- ☐ A: 5ml conc. HNO₃ added
☐ A: 4ml fuming HNO₃ added
☒ H₂Cl

FIELD COMMENTS:

| | |
|---------------------|----------------------------|
| SAMPLING CONDITIONS | Water level |
| | Discharge |
| | Sample type |
| | Conductivity (Uncorrected) |
| pH(00400) | |
| Water Temp. (00010) | |
| | Conductivity at 25° C |

☐ Bailed ☒ Pump
☐ Dipped ☐ Tap

grab

4 mho

4 mho

LAB ANALYSIS REQUESTED:

| ITEM | DESC | METHOD | ITEM | DESC | METHOD | ITEM | DESC | METHOD |
|---|-----------|-----------|------------------------------|--------|--------|------------------------------|----------------|--------|
| <input type="checkbox"/> 001 | VOA | 8020 | <input type="checkbox"/> 013 | PHENOL | 604 | <input type="checkbox"/> 026 | Cd | 7130 |
| <input checked="" type="checkbox"/> 002 | VOA | 602 | <input type="checkbox"/> 014 | VOC | 8240 | <input type="checkbox"/> 027 | Pb | 7421 |
| <input type="checkbox"/> 003 | VOH | 8010 | <input type="checkbox"/> 015 | VOC | 624 | <input type="checkbox"/> 028 | Hg(L) | 7470 |
| <input type="checkbox"/> 004 | VOH | 601 | <input type="checkbox"/> 016 | SVOC | 8250 | <input type="checkbox"/> 031 | Se | 7740 |
| <input type="checkbox"/> 005 | SUITE | 8010-8020 | <input type="checkbox"/> 017 | SVOC | 625 | <input type="checkbox"/> 032 | ICAP | 6010 |
| <input type="checkbox"/> 006 | SUITE | 601-602 | <input type="checkbox"/> 018 | VOC | 8260 | <input type="checkbox"/> 033 | CATIONS/ANIONS | |
| <input type="checkbox"/> 007 | HEADSPACE | | <input type="checkbox"/> 019 | SVOC | 8270 | <input type="checkbox"/> 034 | N SUITE | |
| <input type="checkbox"/> 008 | PAH | 8100 | <input type="checkbox"/> 020 | O&G | 9070 | <input type="checkbox"/> 035 | NITRATE | |
| <input type="checkbox"/> 009 | PAH | 610 | <input type="checkbox"/> 022 | AS | 7060 | <input type="checkbox"/> 036 | NITRITE | |
| <input type="checkbox"/> 010 | PCB | 8080 | <input type="checkbox"/> 023 | Ba | 7080 | <input type="checkbox"/> 037 | AMMONIA | |
| <input type="checkbox"/> 011 | PCB | 608 | <input type="checkbox"/> 024 | Cr | 7190 | <input type="checkbox"/> 038 | TKN | |
| <input type="checkbox"/> 012 | PHENOL | 8040 | <input type="checkbox"/> 025 | Cr6 | 7198 | <input type="checkbox"/> | OTHER | |



GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

4044 PENBROOK
ODESSA, TX 79762

April 25, 1995

OIL CONSERVATION DIVISION
RECEIVED
APR 26 1995 8 52

Mr. William Olson
Hydrogeologist
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: First Quarter 1995 Analytical Results,
Lee Plant, Discharge Plan GW-2

Dear Mr. Olson:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the first quarter of 1995 (see attached analytical results, report date October 22, 1995). Sample collection was conducted on March 14, 15 and 16, 1995, pursuant to the NMOCD Discharge Plan GW-2 requirements. Samples were collected by our consultant, GCL, and NMOCD (Mr. William Olson).

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A correction for specific gravity was applied to the water level measurements in MW-5 to account for free-phase floating product in this well. Previous contour maps indicated a water level depression in the area of MW-5. After applying the specific gravity correction, the depression is no longer present. Groundwater level contour maps for the past three quarters are provided as attachments.

Table 1 summarizes the average daily pumping rates from monitor wells RW-1, MW-6, MW-7, MW-10 and MW-23 for the months of January, February and March 1995.

Quarterly and semi-annual groundwater sampling was conducted at the following monitor wells: MW-6, MW-11, MW-12, MW-13, MW-15, MW-17, MW-18, MW-19, MW-20. Samples were also collected from monitor wells MW-21 and MW-22, the shallow and intermediate wells associated with the groundwater remediation system. All samples were submitted to NDRC Laboratories, Inc., Houston, Texas, following strict chain-of-custody procedures to ensure the integrity of the samples during transport to the laboratory. The groundwater samples from the eleven wells were analyzed for dissolved aromatic hydrocarbons using EPA Method 602.

Table 2 provides a summary of the first quarter 1995 analytical results. A discussion of field data and analytical results is provided below.

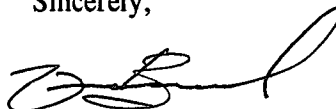
- Free-phase floating product was encountered in MW-4 and MW-5 (0.24 and 5.96 foot layers, respectively). The free-phase product layer has decreased in MW-4 and increased in MW-5 as compared to the levels observed in October 1994 (1.15 and 4.08, respectively).

- The results for BTEX analysis of water samples from downgradient wells, MW-11, MW-12, MW-13, MW-18, and MW-20 indicated concentrations below WQCC water quality standards.
- The benzene concentration of 0.079 ppm in downgradient well, MW-19, exceeded the WQCC standard for benzene (0.010 ppm). Since BTEX concentrations in MW-19 have been below the WQCC standards for approximately one year (see plate 1), the current results suggest a possible sampling or laboratory analytical error. MW-15, which contains known BTEX contamination, was sampled just prior to MW-19. Some residual contamination may have been present in the sampling equipment. MW-19 will be re-sampled in the second quarter of 1995. Further data analysis will be conducted at that time and submitted with the quarterly report due July 1, 1995.
- MW-21, screened across the water table and located between RW-1 and MW-4, yielded a benzene concentration of 0.042 ppm which exceeds the WQCC standard. Toluene, ethyl benzene and xylenes were below detection in this well. A groundwater sample from MW-22 (which is screened 15 to 20 feet below the water table and located between MW-21 and MW-4), showed no indication of BTEX contamination.
- Upgradient monitoring wells, MW-6, 15, 17, and 18, were contaminated. BTEX contamination in MW-6 exceeded the WQCC standards. Benzene and toluene concentrations in MW-15 were detected above the WQCC standards. In MW-17, the benzene concentration exceeded the WQCC standard. MW-18 had a hit of toluene at 0.002 ppm which is below the 0.750 ppm WQCC standard.

In an attempt to identify possible upgradient sources of contamination, GPM's consultant, GCL, conducted an historical review of the Lee Plant site using aerial photographs dating back to 1949. Using this method, no other sources were located. However, due to the poor quality of the aerials, other means should be used to continue the investigation into potential upgradient sources of hydrocarbon contamination which may be impacting the site.

We appreciate OCD's visit to the Lee Plant in March. If GPM can provide additional information or answer any questions, please contact me at (915) 368-1085.

Sincerely,



Vince Bernard
Safety and Environmental Director
New Mexico Region

Attachments

cc: (w/o attach)

S. J. Seeby

J. D. Green

R. G. Stubbs

G. R. Glinsmann

Maureen Gannon - GCL, Albuquerque

LEGEND

- MONITOR WELL
- MONITOR WELL SAMPLED ANNUALLY
- SUPPLY WELL
- ▲ MONITOR WELL SAMPLED QUARTERLY
- ▣ MONITOR WELL SAMPLED SEMI-ANNUALLY
- ⊙ RECOVERY WELL SAMPLED ANNUALLY
- ⊙ PRODUCT RECOVERY WELL
- ⊙ INJECTION WELL
- ⊙ VAPOR EXTRACTION/RECOVERY WELL
- I ANALYTICAL RESULTS FROM JULY 1992
- J ANALYTICAL RESULTS FROM OCTOBER 1992
- K ANALYTICAL RESULTS FROM JANUARY 1993
- L ANALYTICAL RESULTS FROM APRIL 1993
- M ANALYTICAL RESULTS FROM JULY 1993
- N ANALYTICAL RESULTS FROM OCTOBER 1993
- NA NOT AVAILABLE
- ND NO DETECTION
- NS NOT SAMPLED
- NI NOT INSTALLED AT THE DATE OF SAMPLING
- O ANALYTICAL RESULTS FROM JANUARY 1994
- P ANALYTICAL RESULTS FROM MAY 1994
- Q ANALYTICAL RESULTS FROM JULY 1994
- R ANALYTICAL RESULTS FROM OCTOBER 1994
- S ANALYTICAL RESULTS FROM MARCH 1995
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- APR ANALYTICAL RESULTS FOR APRIL 1994
- TPH TOTAL PETROLEUM HYDROCARBONS
- mg/l MILLIGRAMS PER LITER
- * SAMPLING FOR TPH DISCONTINUED

NOTE: CONCENTRATIONS IN MICROGRAMS PER LITER UNLESS OTHERWISE STATED.
WELLS CONTAINING SEPERATE-PHASE HYDROCARBONS ARE NOT SAMPLED.

NOTE: BOLDED NUMBERS SUGGEST DATA POINTS USED IN CONTOURING.

NORTH EVAPORATION POND
(ABANDONED)

| | | | | | | | | | | |
|-------|-----|----|----|----|------|----|----|----|------|----|
| MW-16 | I | J | K | L | M | N | O | P | Q | S |
| B | 420 | NS | NS | NS | 1190 | NS | NS | NS | 3820 | NS |
| T | 77 | NS | NS | NS | 157 | NS | NS | NS | 1660 | NS |
| E | 8 | NS | NS | NS | 30 | NS | NS | NS | 120 | NS |
| X | 8 | NS | NS | NS | 48.0 | NS | NS | NS | <300 | NS |

| | |
|-------|-------|
| MW-15 | S |
| B | 6.240 |
| T | 0.981 |
| E | 0.087 |
| X | 0.214 |

| | |
|------|--------|
| MW-6 | S |
| B | 18.800 |
| T | 17.000 |
| E | 1.760 |
| X | 3.100 |

TEXACO
OIL WELL

| | | | | | | | | | | |
|-------|----|----|----|----|------|----|----|----|------|--------|
| MW-18 | I | J | K | L | M | N | O | P | Q | S |
| B | 23 | NS | NS | NS | 10.7 | NS | <1 | NS | 56.5 | <0.001 |
| T | 6 | NS | NS | NS | 28.9 | NS | <1 | NS | 8.3 | 0.002 |
| E | 2 | NS | NS | NS | <2.0 | NS | <1 | NS | 2.3 | <0.001 |
| X | 1 | NS | NS | NS | 12.1 | NS | <3 | NS | <3.0 | <0.003 |

| | |
|-------|-------|
| MW-17 | S |
| B | 0.062 |
| T | 0.020 |
| E | 0.004 |
| X | 0.010 |

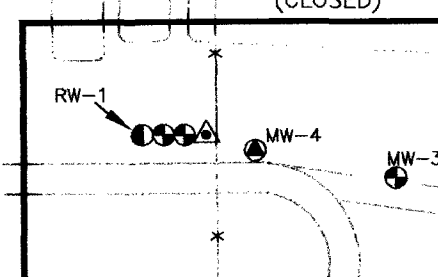
| | | | | | | | | | | |
|----------------------|----|----|----|----|---|----|----|----|------|----|
| WS-1 (WATER WELL) | I | J | K | L | M | N | O | P | Q | S |
| B | 15 | NS | NS | NS | 7 | NS | NS | NS | 19.5 | NS |
| T | 3 | NS | NS | NS | 3 | NS | NS | NS | <1.0 | NS |
| E | 3 | NS | NS | NS | 2 | NS | NS | NS | 2.3 | NS |
| X | 2 | NS | NS | NS | 2 | NS | NS | NS | <3.0 | NS |

| | | | | | | |
|------|----|--------|----|----|----|----|
| MW-8 | I | J | K | L | M | S |
| B | NS | 13,000 | NS | NS | NS | NS |
| T | NS | 380 | NS | NS | NS | NS |
| E | NS | 370 | NS | NS | NS | NS |
| X | NS | 180 | NS | NS | NS | NS |

| | | | | | | |
|----------------------|-----|----|----|------|------|----|
| WS-2 (WATER WELL) | I | J | K | L | M | S |
| B | 460 | NS | NS | NS | 1600 | NS |
| T | 11 | NS | NS | <1.0 | NS | NS |
| E | 5 | NS | NS | 19 | NS | NS |
| X | 2 | NS | NS | 14 | NS | NS |

| | | | | | | | | | | |
|------|--------|----|----|----|-------|----|----|----|-------|----|
| MW-5 | I | J | K | L | M | N | O | P | Q | S |
| B | 10,000 | NS | NS | NS | 22000 | NS | NS | NS | 66400 | NS |
| T | 1,400 | NS | NS | NS | 7870 | NS | NS | NS | 17100 | NS |
| E | 59 | NS | NS | NS | 570 | NS | NS | NS | 630 | NS |
| X | 70 | NS | NS | NS | 1270 | NS | NS | NS | <1500 | NS |

| | | | | | | | | | | |
|------|-----|-----|------|----|-------|----|----|----|-----|----|
| MW-9 | I | J | K | L | M | N | O | P | Q | S |
| B | 310 | NS | NS | NS | 5,900 | NS | NS | NS | 495 | NS |
| T | 4 | 280 | 3.8 | 11 | 314 | NS | NS | NS | <10 | NS |
| E | 10 | 110 | 22.0 | 20 | 28.8 | NS | NS | NS | <10 | NS |
| X | 3 | 120 | 11.0 | 40 | 69.4 | NS | NS | NS | <30 | NS |



| | | | | | | | | | | |
|------|----|----|----|----|------|----|------|----|------|----|
| MW-2 | I | J | K | L | M | N | O | P | Q | S |
| B | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| T | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| E | ND | NS | NS | NS | <2.0 | NS | <1.0 | NS | <1.0 | NS |
| X | ND | NS | NS | NS | <6.0 | NS | <3.0 | NS | <3.0 | NS |

| | | | | | | | | | | |
|-------|-------|----|----|----|------|----|----|----|------|----|
| MW-10 | I | J | K | L | M | N | O | P | Q | S |
| B | 3,900 | NS | NS | NS | 3.5 | NS | NS | NS | 4160 | NS |
| T | 16 | NS | NS | NS | <2.0 | NS | NS | NS | 210 | NS |
| E | 12 | NS | NS | NS | <2.0 | NS | NS | NS | 230 | NS |
| X | 5 | NS | NS | NS | NS | NS | NS | NS | 860 | NS |

| | | | | | | | | | | |
|------|----|----|----|----|------|----|----|----|-----|----|
| MW-7 | I | J | K | L | M | N | O | P | Q | S |
| B | 1 | NS | NS | NS | 40.4 | NS | NS | NS | 2.8 | NS |
| T | ND | NS | NS | NS | 570 | NS | NS | NS | 1.8 | NS |
| E | ND | NS | NS | NS | <10 | NS | NS | NS | 1.2 | NS |
| X | ND | NS | NS | NS | 1270 | NS | NS | NS | 5.0 | NS |

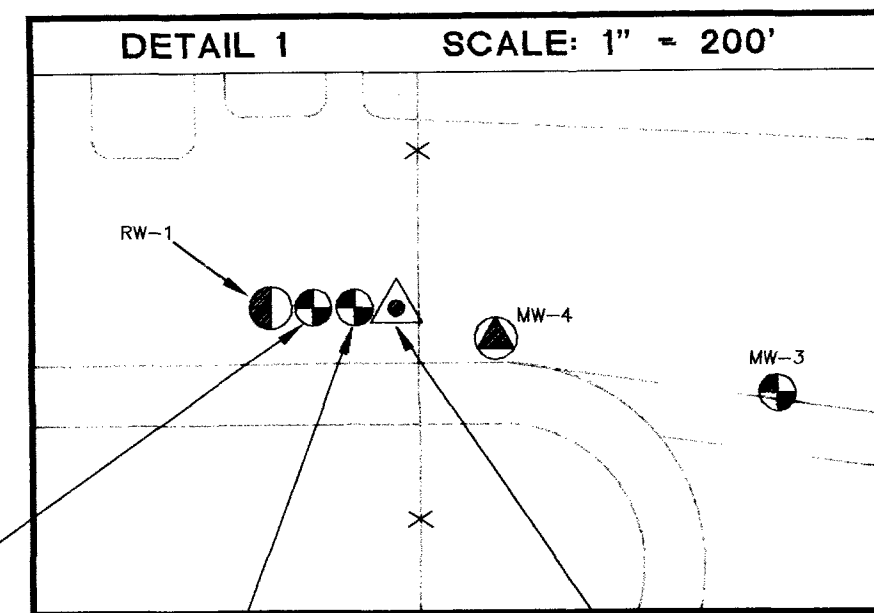
| | | | | | | | | | | |
|-------|----|----|-----|----|----|----|----|----|----|----|
| MW-14 | I | J | K | L | M | N | O | P | Q | S |
| B | 11 | 43 | 19 | 13 | NS | NS | NS | NS | NS | NS |
| T | 3 | 99 | <1 | 3 | NS | NS | NS | NS | NS | NS |
| E | 1 | 19 | <1 | 3 | NS | NS | NS | NS | NS | NS |
| X | 1 | 45 | 1.2 | 6 | NS | NS | NS | NS | NS | NS |

| | | | | | | | | | | | |
|-------|----|-----|-----|------|------|------|------|------|------|------|--------|
| MW-11 | I | J | K | L | M | N | O | P | Q | R | S |
| B | 31 | 78 | 1.3 | 1.1 | 15.5 | <2.0 | 3.7 | <1.0 | 1.9 | <1.0 | <0.001 |
| T | 7 | 130 | <1 | <1.0 | 31.3 | <2.0 | 5.5 | <1.0 | 1.1 | 2.0 | 0.002 |
| E | 2 | 22 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.3 | <1.0 | <1.0 | <0.001 |
| X | 1 | 51 | 1.1 | <1.0 | 11.6 | <6.0 | 3.7 | 3.9 | <3.0 | <3.0 | 0.003 |

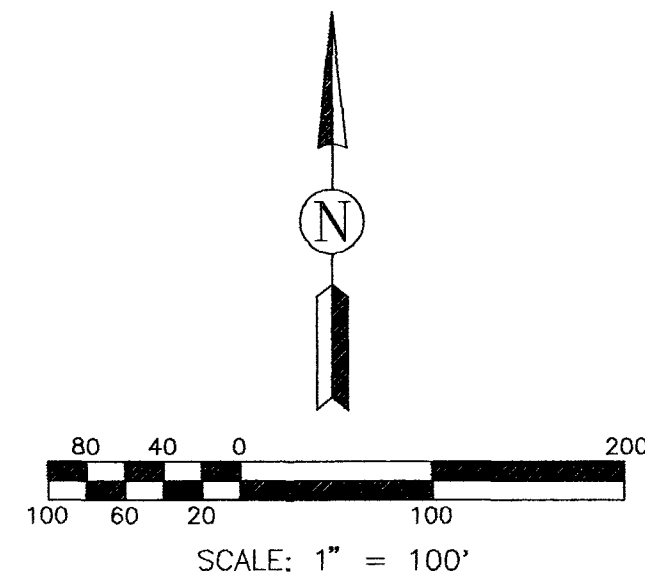
| | | | | | | | | | | | |
|-------|----|----|----|----|------|------|------|------|------|------|-------|
| MW-19 | I | J | K | L | M | N | O | P | Q | R | S |
| B | 14 | NS | NS | NS | 15.3 | 11.2 | 2.5 | <1.0 | 5.4 | <1.0 | 0.079 |
| T | 4 | NS | NS | NS | 35.8 | 12.3 | 3.4 | <1.0 | <1.0 | <1.0 | 0.028 |
| E | 2 | NS | NS | NS | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | 0.005 |
| X | 1 | NS | NS | NS | 13.5 | <6.0 | <3.0 | <3.0 | <3.0 | <3.0 | 0.011 |

| | | | | | | | | | | | |
|-------|----|-----|----|------|------|------|------|------|------|------|--------|
| MW-13 | I | J | K | L | M | N | O | P | Q | R | S |
| B | 16 | 84 | 28 | 13 | 14.6 | 28.6 | 2.4 | <1.0 | 6.5 | <1.0 | <0.001 |
| T | 4 | 150 | <1 | <1.0 | 34.3 | 29.6 | 3.4 | <1.0 | 1.2 | <1.0 | 0.003 |
| E | 1 | 26 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <0.001 |
| X | 1 | 62 | <1 | <1.0 | 13.4 | 10.2 | <3.0 | <3.0 | <3.0 | <3.0 | <0.003 |

| | | | | | | | | | | | |
|-------|----|-----|------|------|------|------|------|------|------|------|--------|
| MW-12 | I | J | K | L | M | N | O | P | Q | R | S |
| B | 18 | 64 | 67.0 | 30.0 | 11.4 | <2.0 | 2.8 | <1.0 | 3.7 | <1.0 | <0.001 |
| T | 4 | 130 | 1.1 | <1.0 | 29.2 | <2.0 | 4.0 | 1.6 | <1.0 | <1.0 | 0.003 |
| E | 1 | 24 | <1 | <1.0 | <2.0 | <2.0 | <1.0 | 1.1 | <1.0 | <1.0 | <0.001 |
| X | 1 | 56 | <1 | <1.0 | 12.1 | <6.0 | <3.0 | 4.1 | <3.0 | <3.0 | 0.004 |



| | | | | | | | | | | | | | |
|-----------------|------|------|------|------|--------|------------------|-------|------|------|------|-----------------|---|-----|
| MW-22 (MID.) | M | P | Q | APR | S | MW-21 (SHAL.) | P | Q | APR | S | MW-23 (DEEP) | M | S |
| B | 170 | 6.6 | 4.7 | 2520 | <0.001 | B | 37000 | 517 | 77.7 | 6.6 | 0.042 | B | 190 |
| T | 65.0 | 2.4 | 1.1 | 260 | <0.001 | T | 5000 | 52 | 51.1 | <1.0 | <0.001 | T | 130 |
| E | 36.0 | <1.0 | <1.0 | <100 | <0.001 | E | <2000 | <1.0 | <1.0 | <1.0 | <0.001 | E | 10 |
| X | 48.0 | 7.1 | <3.0 | <300 | <0.003 | X | <6000 | <3.0 | 10.5 | <3.0 | <0.003 | X | 46 |



GCL

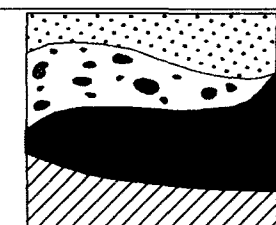


PLATE 1 CONTOUR MAP of BENZENE CONCENTRATIONS (ppb) (REVISED 4/95)

CLIENT: GPM GAS CORPORATION

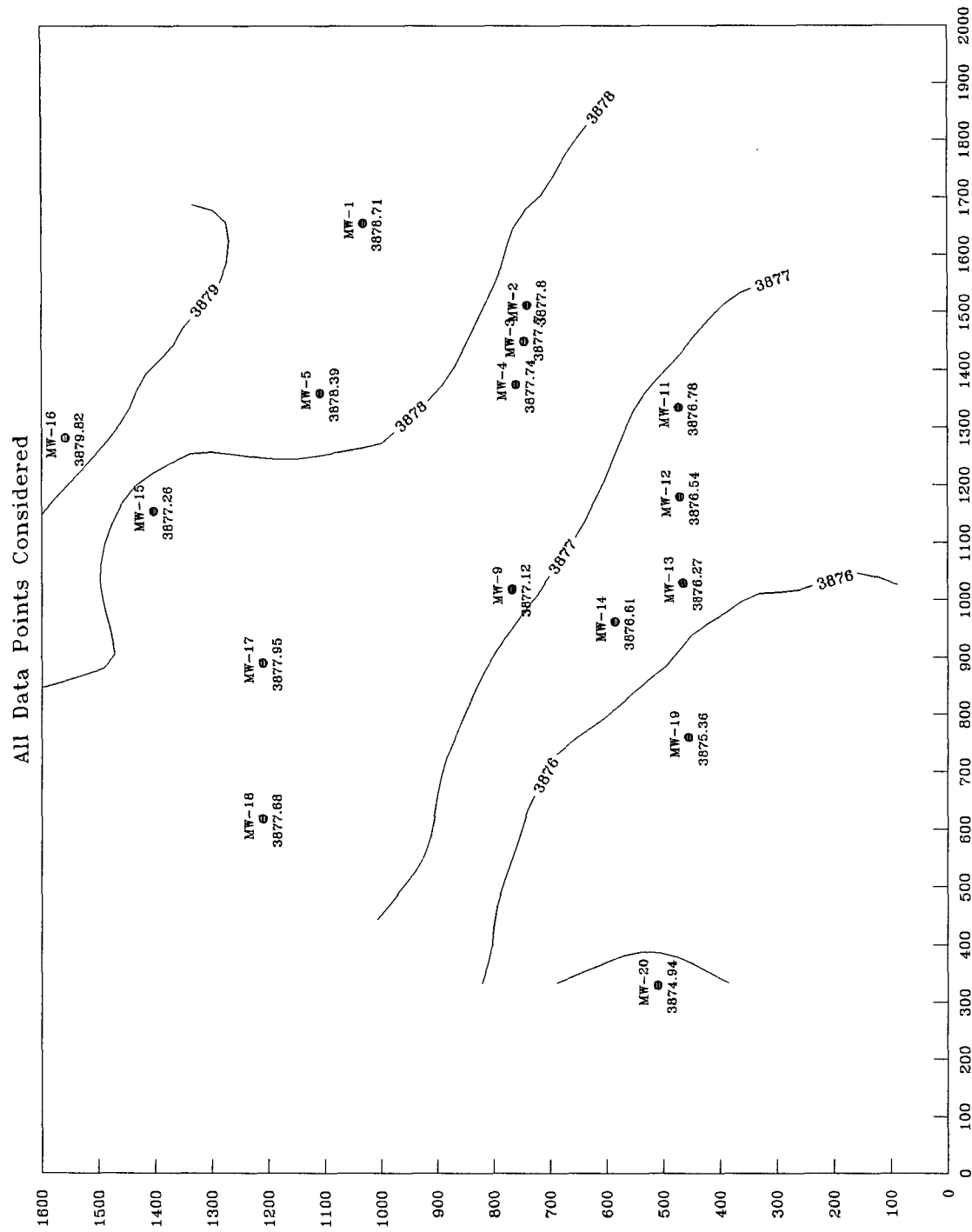
DATE: MARCH 1995

CHECKED BY: M. GANNON

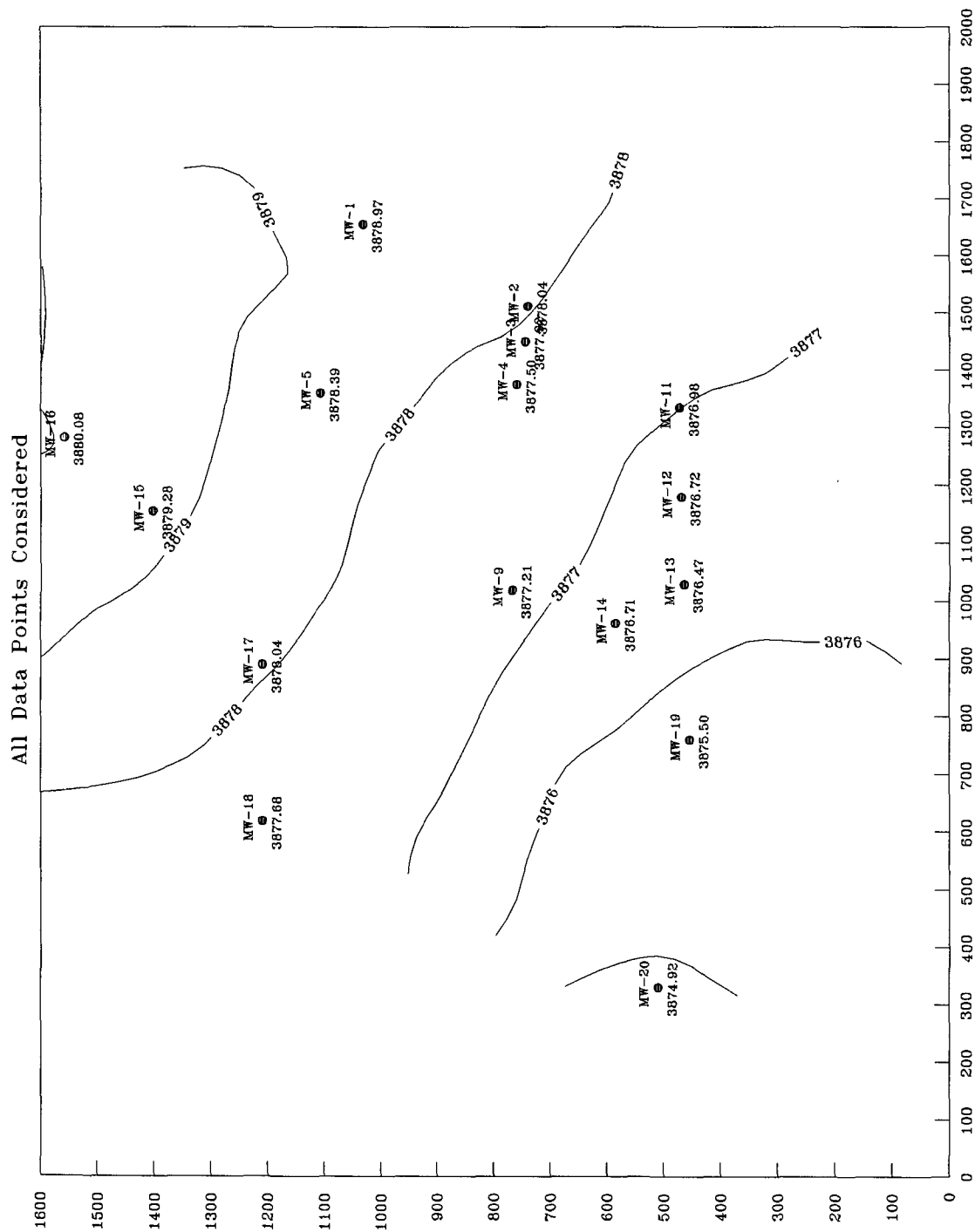
DRAWN BY: MP

DWG. NO. BTEXTV5.DWG

GPM Lee Plant March 1995 Water Level Contour



GPM Lee Plant October 1994 Water Level Contour



GPM Lee Plant July 1994 Water Level Contour

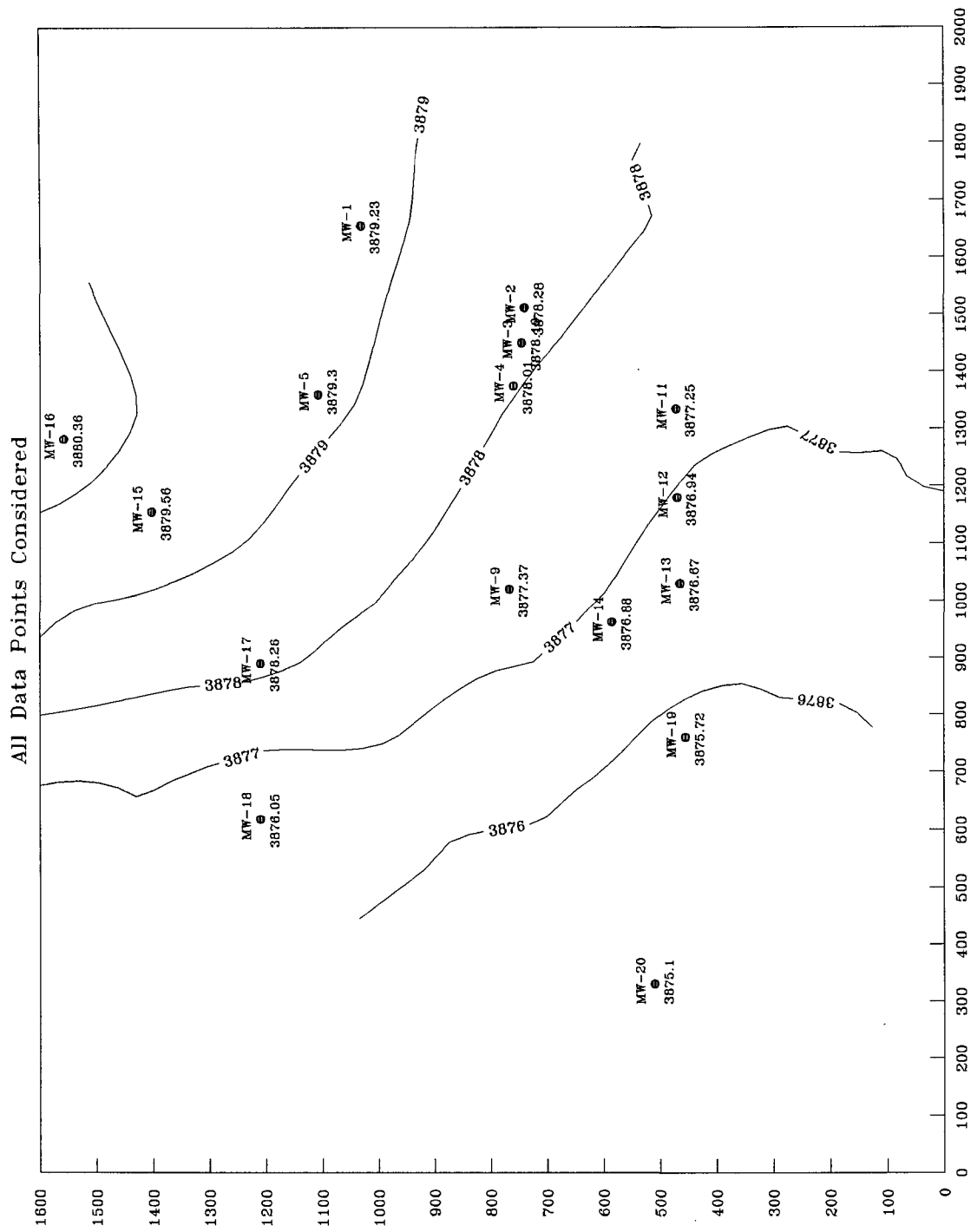


TABLE 1

Average Daily Pumping Rates

| | January 1995 | February 1995 | March 1995 |
|-------|--------------|---------------|------------|
| RW-1 | 1038.1 | 927.0 | 2971.3 |
| MW-6 | 32.4 | 723.3 | 1057.0 |
| MW-7 | 165.5 | 217.9 | 0.0 |
| MW-10 | 1499.1 | 5365.8 | 4638.1 |
| MW-23 | 303.7 | 253.6 | 287.7 |

\\dr\3023\1STQTR95.WQ2:A

TABLE 2

First Quarter Analytical Results - Lee Plant - March 1995

| | Benzene ppm | Toluene ppm | Ethyl Benzene ppm | Xylenes ppm |
|---------------------------|----------------|----------------|----------------------|----------------|
| WQCC Stds | 0.010 | 0.750 | 0.750 | 0.620 |
| UP GRADIENT | | | | |
| MW-6 | 18.800 | 17.000 | 1.760 | 3.100 |
| MW-15 | 6.240 | 0.981 | 0.087 | 0.214 |
| MW-17 | 0.062 | 0.020 | 0.004 | 0.010 |
| MW-18 | <0.001 | 0.002 | <0.001 | <0.003 |
| DOWN GRADIENT | | | | |
| MW-11 | <0.001 | 0.002 | <0.001 | 0.003 |
| MW-12 | <0.001 | 0.003 | <0.001 | 0.004 |
| MW-13 | <0.001 | 0.003 | <0.001 | <0.003 |
| MW-19 | 0.079 | 0.028 | 0.005 | 0.011 |
| MW-20 | 0.001 | 0.006 | <0.001 | 0.006 |
| REMEDIATION SYSTEM | | | | |
| MW-21 | 0.042 | <0.001 | <0.001 | <0.003 |
| MW-22 | <0.001 | <0.001 | <0.001 | <0.003 |
| DL | 0.001 | 0.001 | 0.001 | 0.003 |
| TRIP BLANK | ND | ND | ND | ND |

* Values shown in bold are above WQCC Standards

\\drf\3023\1STQTR95.WQ2:B



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NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 23-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 11 | 9503151200 | Groundwater | 15-MAR-1995 |
| 12 | 9503151300 | Groundwater | 15-MAR-1995 |
| | | | |
| | | | |

MW-22 MW-21

| BTEX ANALYSIS, EPA 602 | | 11 | 12 | | |
|------------------------|------|-------|-------|--|--|
| Benzene | µg/L | < 1.0 | 42.0 | | |
| Toluene | µg/L | < 1.0 | < 1.0 | | |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | | |
| Xylenes | µg/L | < 3.0 | < 3.0 | | |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 23-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|--------|--------------|
| 9 | 9503161440 | Water | 16-MAR-1995 |
| 10 | 9503161500 | Water | 16-MAR-1995 |
| | | | |
| | | | |

MW-19 Tr. P

| BTX ANALYSIS, EPA 602 | | 9 | 10 | | |
|-----------------------|------|------|-------|--|--|
| Benzene | µg/L | 62.0 | < 1.0 | | |
| Toluene | µg/L | 20.0 | < 1.0 | | |
| Ethyl benzene | µg/L | 4.0 | < 1.0 | | |
| Xylenes | µg/L | 10.0 | < 3.0 | | |



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RECEIVED MAR 27 1995

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Fax. 713-661-2661

DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

PROJECT : 3023.002/GPM

The enclosed results of analyses are representative of the sample(s) as received by the laboratory. Inchcape makes no representations or certifications as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Inchcape. To the best of my knowledge, the information contained in this report is accurate and complete.

Kuei-Mei Li
Technical Director

3/22/95
Date

[Signature]
Project Manager

3/23/95
Date



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 22-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 1 | 9503160800 | Groundwater | 16-MAR-1995 |
| 2 | 9503160900 | Groundwater | 16-MAR-1995 |
| 3 | 9503160945 | Groundwater | 16-MAR-1995 |
| 4 | 9503161015 | Groundwater | 16-MAR-1995 |

| BTEX ANALYSIS, EPA 602 | | 1 | 2 | 3 | 4 |
|------------------------|------|-------|-------|-------|-------|
| Benzene | µg/L | 1.4 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/L | 6.0 | 3.0 | 2.0 | 3.0 |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes | µg/L | 6.0 | 4.0 | 3.2 | < 3.0 |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 22-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 5 | 9503161115 | Groundwater | 16-MAR-1995 |
| 6 | 9503161245 | Groundwater | 16-MAR-1995 |
| 7 | 9503161300 | Groundwater | 16-MAR-1995 |
| 8 | 9503161345 | Groundwater | 16-MAR-1995 |

| BTEX ANALYSIS, EPA 602 | | 5 | 6 | 7 | 8 |
|------------------------|------|-------|------|-------|------|
| Benzene | µg/L | < 1.0 | 6240 | 18800 | 79.0 |
| Toluene | µg/L | 2.0 | 981 | 17000 | 28.0 |
| Ethyl benzene | µg/L | < 1.0 | 87 | 1760 | 5.0 |
| Xylenes | µg/L | < 3.0 | 214 | 3100 | 11.0 |



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SUMMARY REPORT

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PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 22-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|--------|--------------|
| 9 | 9503161440 | Water | 16-MAR-1995 |
| 10 | 9503161500 | Water | 16-MAR-1995 |
| | | | |
| | | | |

| BTEX ANALYSIS, EPA 602 | | 9 | 10 | | |
|------------------------|------|------|-------|--|--|
| Benzene | µg/L | 62.0 | < 1.0 | | |
| Toluene | µg/L | 20.0 | < 1.0 | | |
| Ethyl benzene | µg/L | 4.0 | < 1.0 | | |
| Xylenes | µg/L | 10.0 | < 3.0 | | |



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SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 22-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 11 | 9503151200 | Groundwater | 15-MAR-1995 |
| 12 | 9503151300 | Groundwater | 15-MAR-1995 |
| | | | |
| | | | |

| BTEX ANALYSIS, EPA 602 | | 11 | 12 | | |
|------------------------|------|-------|-------|--|--|
| Benzene | µg/L | < 1.0 | 42.0 | | |
| Toluene | µg/L | < 1.0 | < 1.0 | | |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | | |
| Xylenes | µg/L | < 3.0 | < 3.0 | | |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-1
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503160800
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | 1.4 µg/L |
| Toluene | 1.0 µg/L | 6.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | 6.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 104 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-2
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503160900
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---|---------|------|
| TEST REQUESTED | DETECTION LIMIT | | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | | 3.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | | 4.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 108 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-3
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503160945
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | | 2.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | | 3.2 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 107 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-4
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503161015
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | | 3.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 104 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-5
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503161115
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTX ANALYSIS | | | | |
|----------------|-----------------|------|---------|----------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | 1.0 | µg/L | | 2.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 108 % |



Inchcape Testing Services

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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-6

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater

ID MARKS : 9503161245

PROJECT : 3023.002/GPM

DATE SAMPLED : 16-MAR-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : MHT

ANALYZED ON : 20-MAR-1995

DILUTION FACTOR : 50

NW 15

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|-----------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 50 | µg/L | 6240 µg/L |
| Toluene | 50 | µg/L | 981 µg/L |
| Ethyl benzene | 50 | µg/L | 87 µg/L |
| Xylenes | 150 | µg/L | 214 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 104 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-7

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503161300
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 100

| BTX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 100 $\mu\text{g/L}$ | 18800 $\mu\text{g/L}$ |
| Toluene | 100 $\mu\text{g/L}$ | 17000 $\mu\text{g/L}$ |
| Ethyl benzene | 100 $\mu\text{g/L}$ | 1760 $\mu\text{g/L}$ |
| Xylenes | 300 $\mu\text{g/L}$ | 3100 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 105 % |



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-8

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater

ID MARKS : 9503161345

PROJECT : 3023.002/GPM

DATE SAMPLED : 16-MAR-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : MHT

ANALYZED ON : 20-MAR-1995

DILUTION FACTOR : 1

MW-19

| BTEX ANALYSIS | | | |
|----------------|-----------------|------|-----------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Benzene | 1.0 | µg/L | 79.0 µg/L |
| Toluene | 1.0 | µg/L | 28.0 µg/L |
| Ethyl benzene | 1.0 | µg/L | 5.0 µg/L |
| Xylenes | 3.0 | µg/L | 11.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 102 % |



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DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-9
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9503161440
PROJECT : 3023.002/GPM
DATE SAMPLED : 16-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | |
|----------------|---------------------|----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | 62.0 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | 20.0 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | 4.0 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | 10.0 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 98.0 % |



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Fax. 713-661-2661

DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-10

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water

ID MARKS : 9503161500

PROJECT : 3023.002/GPM

DATE SAMPLED : 16-MAR-1995

ANALYSIS METHOD : EPA 602

ANALYZED BY : MHT

ANALYZED ON : 20-MAR-1995

DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|----------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 111 % |



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Houston, TX 77025
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Fax. 713-661-2661

DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-11

REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503151200
PROJECT : 3023.002/GPM
DATE SAMPLED : 15-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | | | | |
|----------------|-----------------|------|---------|-----|------|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Toluene | 1.0 | µg/L | < | 1.0 | µg/L |
| Ethyl benzene | 1.0 | µg/L | < | 1.0 | µg/L |
| Xylenes | 3.0 | µg/L | < | 3.0 | µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 113 % |



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NDRC Laboratories

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Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 17-MAR-1995

REPORT NUMBER : H95-1607-12
REPORT DATE : 22-MAR-1995

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9503151300
PROJECT : 3023.002/GPM
DATE SAMPLED : 15-MAR-1995
ANALYSIS METHOD : EPA 602
ANALYZED BY : MHT
ANALYZED ON : 20-MAR-1995
DILUTION FACTOR : 1

| BTEX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | 42.0 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | < 3.0 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 95.0 % |



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11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

REPORT DATE : 22-MAR-1995

REPORT NUMBER : H95-1607

SAMPLE SUBMITTED BY : GCL

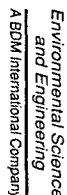
ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| BATCH NO. | 8020D_465 | 8020D_465 | 8020D_465 | 8020D_465 |
| LCS LOT NO. | --- | --- | --- | --- |
| PREP METHOD | --- | --- | --- | --- |
| DATE PREPARED | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 602 | EPA 602 | EPA 602 | EPA 602 |
| DATE ANALYZED | 20-MAR-1995 | 20-MAR-1995 | 20-MAR-1995 | 20-MAR-1995 |
| ANALYZED BY | MHT | MHT | MHT | MHT |
| UNITS | $\mu\text{g/L}$ | $\mu\text{g/L}$ | $\mu\text{g/L}$ | $\mu\text{g/L}$ |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 3.00 |
| MS RECOVERY % | 100 | 102 | 104 | 106 |
| MSD RECOVERY % | 100 | 106 | 106 | 108 |
| MS/MSD RPD % | 0.0 | 3.8 | 1.9 | 1.9 |
| BS RECOVERY % | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA |
| BS/BSR RPD % | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA |
| LCS RECOVERY % | 100 | 104 | 106 | 107 |
| SPIKE SAMPLE ID | 1607-11 | 1607-11 | 1607-11 | 1607-11 |
| DUP SAMPLE ID | --- | --- | --- | --- |

NA

Not Applicable



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

NO 8425

Date 3/16/95 Page 1 Of 1

Distribution: White, Canary-Laboratory • Pink, GCL



11155 South Main
Houston, TX 77025
(713) 661-8150
Fax (713) 661-2661

Company: GCL Job No.: 1607
No. of Cooler(s): 1 Temperature of Cooler(s): -4

ORIGINAL

*** ACTIVITY REPORT ***

RECEPTION OK

TX/RX NO. 3690

CONNECTION TEL

CONNECTION ID

START TIME 03/23 09:22

USAGE TIME 02'42

PAGES 5

RESULT OK

GPM
Result S
From
Lee



Inchcape Testing Services
NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE: 23-MAR-1995 10:14:50.81

FAX #: 15058420595

TOTAL NUMBER OF PAGES 4 (NOT INCLUDING THIS COVER SHEET)

TO:

COMPANY: GCL

ATTENTION: Ms. Annette Montoya

FROM: Keith Partin

NOTES: Analytical Results for H95-1607

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NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 23-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 1 | 9503160800 | Groundwater | 16-MAR-1995 |
| 2 | 9503160900 | Groundwater | 16-MAR-1995 |
| 3 | 9503160945 | Groundwater | 16-MAR-1995 |
| 4 | 9503161015 | Groundwater | 16-MAR-1995 |

| | | MW-20 | MW-12 | MW-11 | MW-13 |
|------------------------|------|-------|-------|-------|-------|
| BTEX ANALYSIS, EPA 602 | | 1 | 2 | 3 | 4 |
| Benzene | µg/L | 1.4 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/L | 6.0 | 3.0 | 2.0 | 3.0 |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes | µg/L | 6.0 | 4.0 | 3.2 | < 3.0 |



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NDRC Laboratories

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Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H95-1607
REPORT DATE : 23-MAR-1995

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------|-------------|--------------|
| 5 | 9503161115 | Groundwater | 16-MAR-1995 |
| 6 | 9503161245 | Groundwater | 16-MAR-1995 |
| 7 | 9503161300 | Groundwater | 16-MAR-1995 |
| 8 | 9503161345 | Groundwater | 16-MAR-1995 |

| | | MW-18 | MW-15 | MW-6 | MW-19 |
|------------------------|------|-------|-------|-------|-------|
| BTEX ANALYSIS, EPA 602 | | 5 | 6 | 7 | 8 |
| Benzene | µg/L | < 1.0 | 6240 | 18800 | 79.0 |
| Toluene | µg/L | 2.0 | 981 | 17000 | 28.0 |
| Ethyl benzene | µg/L | < 1.0 | 87 | 1760 | 5.0 |
| Xylenes | µg/L | < 3.0 | 214 | 3100 | 11.0 |



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 7, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-218

Mr. Vince Bernard
GPM Gas Services Company
4044 Penbrook
Odessa, TX 79762

**RE: QUARTERLY REPORTS
LEE GAS PROCESSING PLANT
BUCKEYE, NEW MEXICO**

Dear Mr. Bernard:

The New Mexico Oil Conservation Division (OCD) has reviewed GPM Gas Services Company's January 12, 1995 "FOURTH QUARTER 1994 ANALYTICAL RESULTS, LEE PLANT, DISCHARGE PLAN GW-2". This document contains the results of the fourth quarter sampling of the ground water monitoring system at GPM's Lee Gas Processing Plant. This document also requests a change in the frequency of ground water monitoring and recommends an investigation of potential sources upgradient of the facility.

GPM's request to change the frequency of sampling monitor well MW-2 from semi-annual to annual is approved. Due to the need to demonstrate that the remediation system is keeping contaminants from migrating from the facility and past fluctuations in the sampling results, GPM's request to reduce the sampling frequency of monitor wells MW-11, MW-12, MW-13, MW-19 and MW-20 is denied.

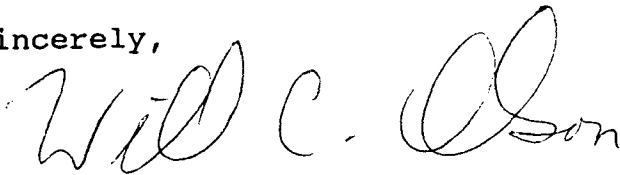
In regards to GPM's recommendation that an investigation be performed of potential sources upgradient of the facility. The OCD has observed the trend of increasing concentrations of contaminants in the upgradient monitoring wells over the past few years and shares your concern. As a result the OCD will discuss the problems in this area and possible future actions during the March 16, 1995 sampling event which the OCD will be attending.

Mr. Vince Bernard
March 7, 1995
Page 2

Please be advised that OCD approval does not relieve GPM of liability should the monitoring system fail to adequately monitor contaminant migration from the facility. In addition, OCD approval does not relieve GPM of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please contact me at (505) 827-7154.


Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs District Office
Maureen Gannon, GCL

P 667 242 218

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GPM GAS SERVICES COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY

4044 PENBROOK
ODESSA, TX 79762

January 12, 1995

RECEIVED

JAN 17 1995

Mr. Bill Olson
Hydrogeologist
New Mexico Oil Conservation Division OIL CONSERVATION DIV.
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: Fourth Quarter 1994 Analytical Results,
Lee Plant, Discharge Plan GW - 2

Dear Bill:

GPM Gas Corporation (GPM) herein submits the laboratory analytical reports for groundwater sampling at our Lee Plant for the fourth quarter of 1994. Sample collection was conducted on October 11, 1994 pursuant to the requirements of NMOCD Discharge Plan GW-2. NDRC Laboratories, Inc., of Houston performed the sample analyses. Our consultant, GCL, strictly adhered to chain-of-custody procedures to ensure integrity of the samples during transport to the laboratory.

Depth to groundwater and product thickness measurements were conducted at all monitor wells. A groundwater level contour map is included as an attachment. Quarterly groundwater sampling was conducted at monitor wells MW-11, MW-12, MW-13, MW-19 and MW-20. Groundwater samples from these five wells were analyzed for dissolved aromatic hydrocarbons using EPA Method 602.

Free-phase floating product was encountered in MW-4 (1.05 ft. thickness) and MW-5 (3 ft. thickness). Measurements were not taken in monitor wells, MW-6, MW-7, MW-10, and MW-23 because of downhole recovery equipment.

BTEX concentrations in MW-11, MW-12, MW-13, MW-19 and MW-20 were all below WQCC water quality standards. Toluene was the only constituent found in any of these wells, 0.02 ppm in MW-11. Again, this concentration is below the WQCC standard of 0.75 ppm.

As discussed in previous correspondence, GPM believes that upgradient, off-site sources may be contributing to hydrocarbons detected in monitor wells MW-5 and MW-16. To further support this conclusion, GPM has performed an analysis of benzene concentrations in groundwater samples collected over the past three years at the Lee Plant. Plates 1, 2 and 3 are contour maps of benzene concentrations in groundwater at the site, drawn from analytical data collected during July 1992, July 1993 and July 1994. These maps show that the current plant remediation system has been extremely effective in eliminating off-site migration of contaminated groundwater in the downgradient (southward) direction, and has pulled the BTEX plume back towards the recovery wells onsite. Benzene concentrations in downgradient compliance monitor wells have been reduced

January 12, 1994

from levels as high as 220 ppb to levels below the WQCC standards between July 1993 and October 1994, indicating a cessation of downgradient migration and confinement of the plume to the site.

We are concerned, however, with the increase in benzene concentrations in wells MW-5 and MW-16, which are **upgradient** monitor wells. Over the past three years, benzene concentrations have increased significantly from 10,000 ppb during the July 1992 sampling event to 66,400 ppb during the July 1994 event in MW-5; over the same period, concentrations have increased from 420 ppb to 3,820 ppb in MW-16, which is located upgradient of the abandoned north evaporation pond. The overall change in the pattern of the contours between July 1992 and July 1994 suggest that contaminants are being pulled in from off-site sources to the north and concentrating towards the onsite recovery wells. A strong possibility exists that another operator's producing oil well located immediately upgradient of MW-5 may be contributing to this increase. As mentioned previously, three feet of free-phase floating product was encountered in MW-5. Other undefined sources may also exist upgradient of the site.

Based on the results of our data analysis, GPM recommends the following:

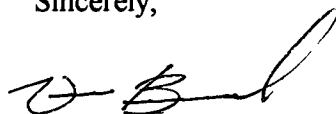
Due to consistency in trends of the analytical data from July 1993 to October 1994, GPM requests a reduction in frequency of sampling and analysis of monitor wells MW-11, MW-12, MW-13, MW-19 and MW-20 from quarterly to annually.

GPM recommends the reduction of the sampling frequency of monitor well MW-2 from semi-annually to annually, since BTEX has not been detected in this well for over two years.

GPM recommends that a formal investigation of upgradient off-site properties be conducted to determine the contribution of these properties and associated activities to groundwater contamination in the area.

We will await your response on these recommendations. Also, GPM would like to schedule the next groundwater sampling event for the Lee Plant as soon as possible. You had mentioned during a previous conversation that you would like to be present during this sampling, to assess the area in consideration of any possible off-site contamination. As such, we will wait to hear from you before scheduling this activity. If you have any questions regarding the contents of this letter or the analytical results, feel free to call me at (915) 368-1085.

Sincerely,

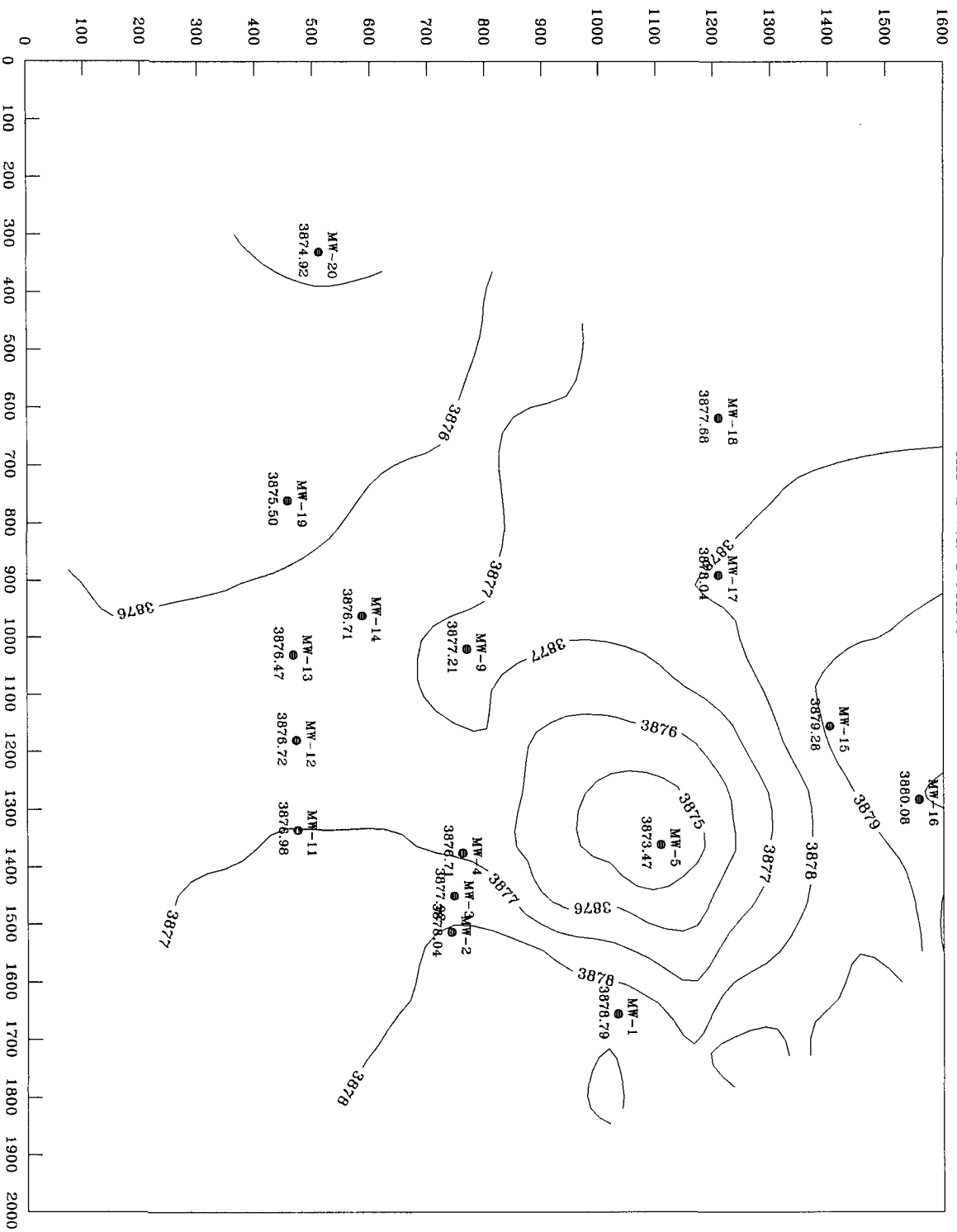


Vince Bernard
Safety & Environmental Director
New Mexico Region

cc: S. J. Seeby
M. S. Nault
G. R. Glinnsman
D. A. Stell
J. Kuchinski

GPM Lee Plant October 1994 Water Level Contour

All Data Points Considered



RECEIVED OCT 31 1994



Inchcape Testing Services

NDRC Laboratories

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Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H94-6489
REPORT DATE : 21-OCT-1994

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|------------------|-------------|--------------|
| 1 | 9410121045 MW-12 | Groundwater | 12-OCT-1994 |
| 2 | 9410121430 MW-11 | Groundwater | 12-OCT-1994 |
| 3 | 9410121530 MW-13 | Groundwater | 12-OCT-1994 |
| 4 | 9410121645 MW-19 | Groundwater | 12-OCT-1994 |

| BTEX ANALYSIS, EPA 602 | | 1 12 | 2 11 | 3 13 | 4 19 |
|------------------------|------|-------|-------|-------|-------|
| Benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Toluene | µg/L | < 1.0 | 2.0 | < 1.0 | < 1.0 |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Xylenes | µg/L | < 3.0 | < 3.0 | < 3.0 | < 3.0 |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H94-6489
REPORT DATE : 21-OCT-1994

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|-------------------|-------------|--------------|
| 5 | 9410121730 MW-20 | Groundwater | 12-OCT-1994 |
| 6 | 9410121840 MW-20A | Groundwater | 12-OCT-1994 |
| | | | |
| | | | |

| BTEX ANALYSIS, EPA 602 | | 5 | 6 | | |
|------------------------|------|-------|-------|--|--|
| Benzene | µg/L | < 1.0 | < 1.0 | | |
| Toluene | µg/L | < 1.0 | < 1.0 | | |
| Ethyl benzene | µg/L | < 1.0 | < 1.0 | | |
| Xylenes | µg/L | < 3.0 | < 3.0 | | |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

SUMMARY REPORT

CLIENT : GCL
CONTACT : Ms. Annette Montoya
PROJECT : 3023.002/GPM

JOB NUMBER : H94-6489
REPORT DATE : 21-OCT-1994

| SAMPLE NO. | ID MARKS | MATRIX | DATE SAMPLED |
|------------|-----------------------|--------|--------------|
| 7 | 9410121900 Trip Blank | Water | 12-OCT-1994 |
| | | | |
| | | | |
| | | | |

| BTX ANALYSIS, EPA 602 | | 7 | | | |
|-----------------------|-----------------|---|-----|--|--|
| Benzene | $\mu\text{g/L}$ | < | 1.0 | | |
| Toluene | $\mu\text{g/L}$ | < | 1.0 | | |
| Ethyl benzene | $\mu\text{g/L}$ | < | 1.0 | | |
| Xylenes | $\mu\text{g/L}$ | < | 3.0 | | |

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Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

NDRC Laboratories

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Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-1

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9410121045
: MW-12
PROJECT : 3023.002/GPM
DATE SAMPLED : 12-OCT-1994
ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | < 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 101 % |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-2

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater

ID MARKS : 9410121430

: MW-11

PROJECT : 3023.002/GPM

DATE SAMPLED : 12-OCT-1994

ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | 2.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | < 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 100 % |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
Tel. 713-661-8150
Fax. 713-661-2661

DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-3

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9410121530
: MW-13
PROJECT : 3023.002/GPM
DATE SAMPLED : 12-OCT-1994
ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | | | | |
|----------------|--|-----------------|------|---------|----------|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Toluene | | 1.0 | µg/L | < | 1.0 µg/L |
| Ethyl benzene | | 1.0 | µg/L | < | 1.0 µg/L |
| Xylenes | | 3.0 | µg/L | < | 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 105 % |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



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NDRC Laboratories

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Houston, TX 77025
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DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-4

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater

ID MARKS : 9410121645

: MW-19

PROJECT : 3023.002/GPM

DATE SAMPLED : 12-OCT-1994

ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | |
|----------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Toluene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Ethyl benzene | 1.0 $\mu\text{g/L}$ | < 1.0 $\mu\text{g/L}$ |
| Xylenes | 3.0 $\mu\text{g/L}$ | < 3.0 $\mu\text{g/L}$ |

| QUALITY CONTROL DATA | | |
|------------------------|---------------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 $\mu\text{g/L}$ | 102 % |

Inchcape Testing Services

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Technical Director



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Fax. 713-661-2661

DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-5

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater
ID MARKS : 9410121730
: MW-20
PROJECT : 3023.002/GPM
DATE SAMPLED : 12-OCT-1994
ANALYSIS METHOD : EPA 602

| BTX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | < 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 100 % |

Inchcape Testing Services

Kuei-Mei Li
Kuei-Mei Li
Technical Director



Inchcape Testing Services

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Houston, TX 77025
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DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-6

REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL

ADDRESS : 505 Marquette NW, Ste. 1100

: Albuquerque, NM 87102

ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Groundwater

ID MARKS : 9410121840

: MW-20A

PROJECT : 3023.002/GPM

DATE SAMPLED : 12-OCT-1994

ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | < 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 105 % |

Inchcape Testing Services

Kuei-Mei Li
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Technical Director



Inchcape Testing Services

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DATE RECEIVED : 14-OCT-1994

REPORT NUMBER : H94-6489-7
REPORT DATE : 21-OCT-1994

SAMPLE SUBMITTED BY : GCL
ADDRESS : 505 Marquette NW, Ste. 1100
: Albuquerque, NM 87102
ATTENTION : Ms. Annette Montoya

SAMPLE MATRIX : Water
ID MARKS : 9410121900
: Trip Blank
PROJECT : 3023.002/GPM
DATE SAMPLED : 12-OCT-1994
ANALYSIS METHOD : EPA 602

| BTEX ANALYSIS | | |
|----------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 1.0 µg/L | < 1.0 µg/L |
| Toluene | 1.0 µg/L | < 1.0 µg/L |
| Ethyl benzene | 1.0 µg/L | < 1.0 µg/L |
| Xylenes | 3.0 µg/L | < 3.0 µg/L |

| QUALITY CONTROL DATA | | |
|------------------------|-------------|-----------------|
| SURROGATE COMPOUND | SPIKE LEVEL | SPIKE RECOVERED |
| Bromofluorobenzene(SS) | 100 µg/L | 101 % |

Inchcape Testing Services

Kuei-Mei Li
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Technical Director



Inchcape Testing Services

NDRC Laboratories

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Tel. 713-661-8150
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REPORT DATE : 21-OCT-1994

REPORT NUMBER : H94-6489

SAMPLE SUBMITTED BY : GCL

ATTENTION : Ms. Annette Montoya

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------------|-------------|-------------|--------------|-------------|
| BATCH NO. | 8020D_232 | 8020D_232 | 8020D_232 | 8020D_232 |
| LCS LOT NO. | --- | --- | --- | --- |
| PREP METHOD | --- | --- | --- | --- |
| DATE PREPARED | --- | --- | --- | --- |
| PREPARED BY | --- | --- | --- | --- |
| ANALYSIS METHOD | EPA 602 | EPA 602 | EPA 602 | EPA 602 |
| DATE ANALYZED | 17-OCT-1994 | 17-OCT-1994 | 17-OCT-1994 | 17-OCT-1994 |
| ANALYZED BY | MHT | MHT | MHT | MHT |
| UNITS | µg/L | µg/L | µg/L | µg/L |
| METHOD BLANK | < 1.00 | < 1.00 | < 1.00 | < 3.00 |
| MS RECOVERY % | 100 | 98.0 | 100 | 98.0 |
| MSD RECOVERY % | 100 | 95.0 | 98.0 | 96.0 |
| MS/MSD RPD % | 0.0 | 3.1 | 2.0 | 2.1 |
| BS RECOVERY % | NA | NA | NA | NA |
| BSD RECOVERY % | NA | NA | NA | NA |
| BS/BSD RPD % | NA | NA | NA | NA |
| DUPLICATE RPD % | NA | NA | NA | NA |
| LCS RECOVERY % | 102 | 102 | 102 | 103 |
| SPIKE SAMPLE ID | 6489-6 | 6489-6 | 6489-6 | 6489-6 |
| DUP SAMPLE ID | --- | --- | --- | --- |

NA

Not Applicable


Kuei-Mei Li



**Environmental Science
and Engineering**
A BDM International Company

☒ Albuquerque
505 Marquette NW, Ste. 1100
Albuquerque, NM 87102
(505) 842-0001
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☐ Mid Atlantic Region
4221 Forbes Blvd., Ste. 240
Lanham, MD 20706-4325
(301) 459-9677
FAX: (301) 459-3064

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

ORIGINAL

QC REPORT

No: 8422

Chain of Custody

Date 10/12/94 Page 1 Of 1

Analysis Request

| | |
|-----------|---------------------------------------|
| Lab Name | NDRC/Inchcape Testing Service |
| Address | 11155 South Main Houston, TX 77025 |
| Telephone | (713) 661-8150 |

Samplers (SIGNATURES)

| Sample Number | Matrix | Location |
|---------------|--------|--------------|
| 9410121045 | H2O | MW-12 |
| 9410121430 | H2O | MW-11 |
| 9410121530 | H2O | MW-13 |
| 9410121645 | H2O | MW-19 |
| 9410121730 | H2O | MW-20 |
| 9410121840 | H2O | MW-20A |
| 9410121900 | H2O | Trip Black's |

[illegible]

| Project Information | | Sample Receipt | | Relinquished By | | Relinquished By | | Relinquished By | |
|--------------------------|------------------|---------------------------|------------------------|-----------------|----------|-----------------|--------|--------------------------|--------|
| Project | Project Director | Total No. of Containers | Chain of Custody Seals | (Signature) | (Time) | (Signature) | (Time) | (Signature) | (Time) |
| CFPM | CHANNON | | | DAVID WEE | 10/12/99 | | | | |
| Charge Code No. 3023.002 | | Rec'd Good Condition/Cold | | (Printed Name) | (Date) | (Printed Name) | (Date) | (Printed Name) | (Date) |
| Shipping ID. No. | | Conforms to Record | | ALL | | | | | |
| 0218935021 | | Lab No. | | (Company) | | (Company) | | (Company) | |
| Via: Fed X | | | | Received By | 1. | Received By | 2. | Received By (Laboratory) | 3. |
| | | | | (Signature) | (Time) | (Signature) | (Time) | (Signature) | (Time) |
| | | | | (Printed Name) | (Date) | (Printed Name) | (Date) | (Printed Name) | (Date) |
| | | | | (Company) | | (Company) | | (Laboratory) | |

Special Instructions/Comments:

Distribution: White, Canary-Laboratory • Pink, GCL

Inchcape Testing Services

NDRC Laboratories

11155 South Main
Houston, TX 77025
(713) 661-8150
Fax (713) 661-2661

SAMPLE PRESERVATION INFORMATION SHEET

Company: GCL Job No.: 6489
No. of Cooler(s): 1 Temperature of Cooler(s): -4

[illegible]

PRESERVATION USED *

- | | |
|--|--|
| 1 - Cool to 4° C | 5 - NaOH to pH > 12 |
| 2 - H ₂ SO ₄ to pH < 2 | 6 - Na ₂ S ₂ O ₃ 0.008% |
| 3 - HNO ₃ to pH < 2 | 7 - 2 ml Zinc Acetate and NaOH to pH > 12 |
| 4 - HCL to pH < 2 | 8 - None Required |

CONTAINERS USED

- A - Amber
G - Clear Glass
V - VOA
- P - Plastic
T - Tedlar
Tb - Tube

Preserved by

10-14-74
Date

ORIGINAL