

**3R – 322**

**2003 AGWMR**

**08 / 31 / 2004**



188 County Road 4900  
Bloomfield, NM 87413  
(505) 634-4956 Phone  
(505) 632-4780 Fax

August 31, 2004

Mr. William Olson  
Hydrologist  
NM Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

RE: 2003 GROUND WATER SUMMARY REPORT

Dear Bill:

Enclosed for your review is the Williams 2003 Ground Water Summary Report. The report provides results of ground water monitoring at several sites in the San Juan Basin historically impacted from the use of unlined surface impoundments. The report includes those sites where monitored natural attenuation is ongoing. Work at these sites continues as previously communicated.

Thank you for taking the time to review this report. If you have any questions or need other information, please contact me or Jim Struhs at 505-634-4956.

Respectfully,

A handwritten signature in black ink, appearing to read "Mark Harvey".

Mark Harvey  
Project Coordinator

Enclosure – 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

# Site Summary Report

Site Name: Ice Canyon Drip

Reporting Period: 2003

Location: Unit B, Sec 15, Twn 26N, Rng 6W

Canyon: Largo

Operator: Williams

Vulnerable Class: original

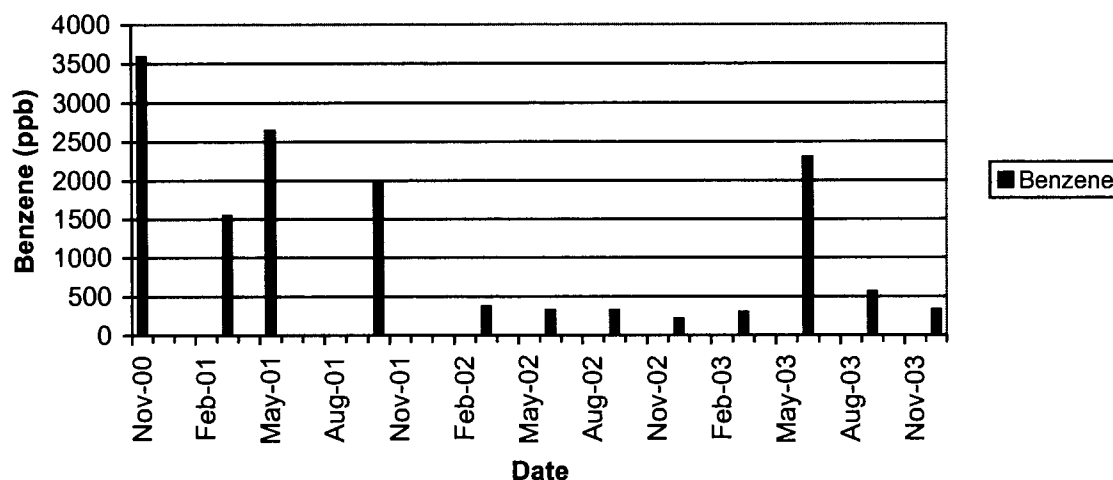
OCD Ranking: 40

Lead Agency: NMOCD

## Status Narrative

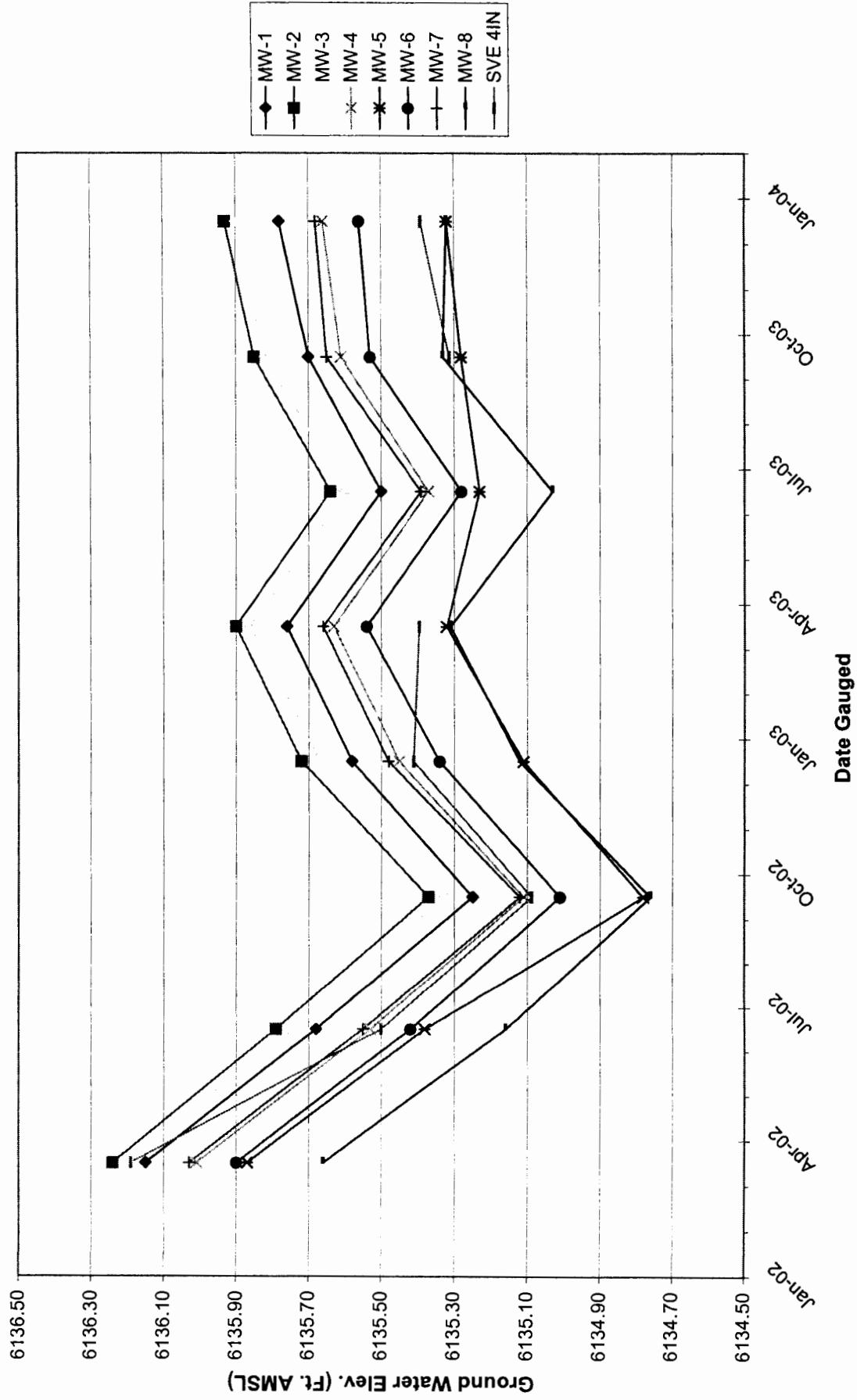
This site has eight monitoring wells and one 4-inch well installed as part of a soil-vapor extraction pilot study conducted by PNM. To date, twenty-one quarters of monitoring have been completed. Accumulations of LNAPL are present only in the 4-inch well. To date, approximately 5-liters of LNAPL have been recovered. Source area well MW-2 contains dissolved benzene at levels in excess of WQCC cleanup standards. The chart below shows the change in benzene levels over the last three years.

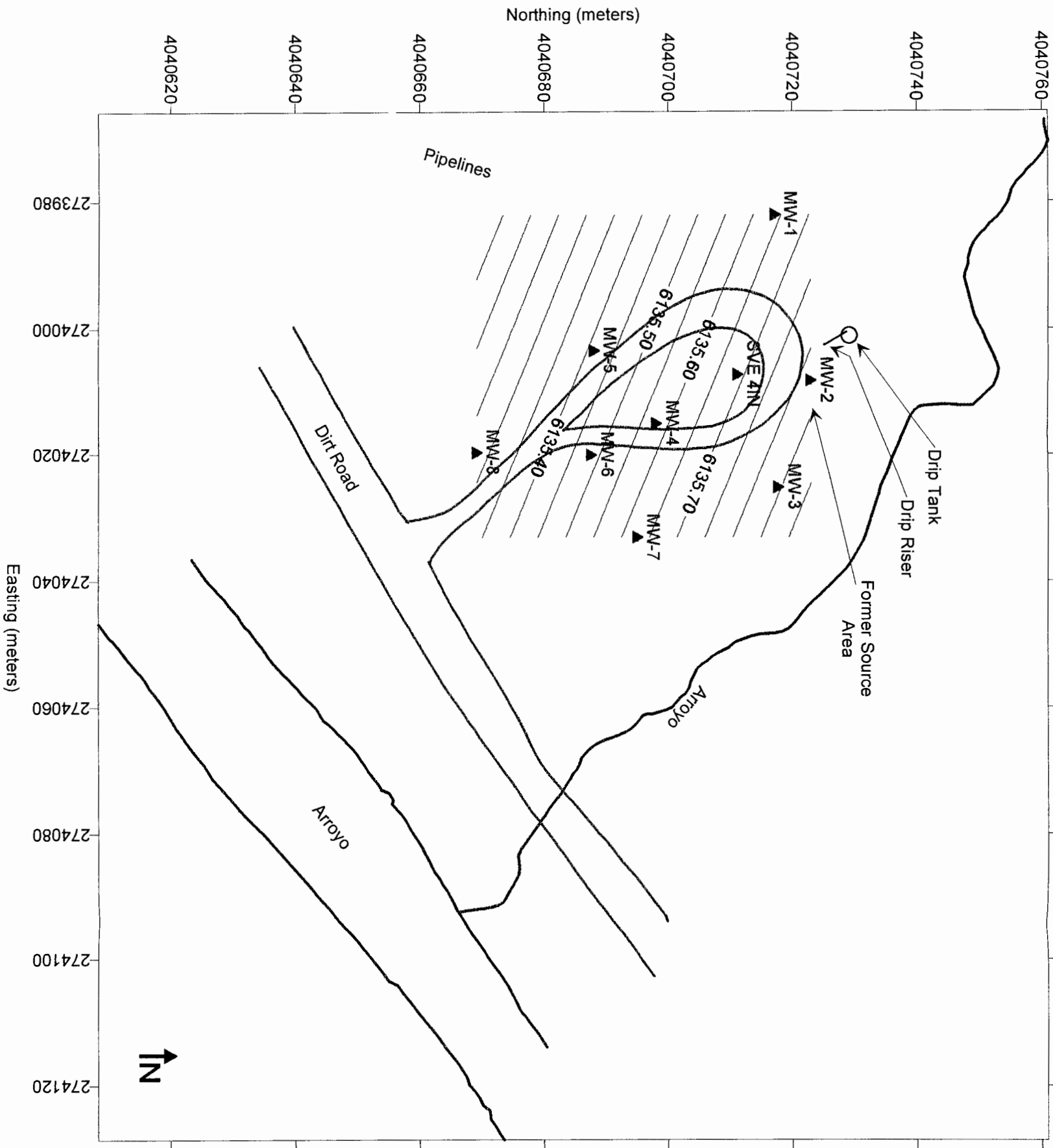
**Benzene Concentrations in MW-2**



Concentrations of BTEX in well MW-5, which had been below WQCC standards for the previous six quarters, exceeded the standards in the second through fourth quarters of this year. Sentinel well MW-8 continued to show no detectable levels of the BTEX constituents.

Potentiometric surface maps (Figure 2) depict a south by west ground water flow direction at an average hydraulic gradient of 0.003. No significant seasonal variations in flow direction or gradient are evident. The hydrograph for the monitoring period illustrates the seasonal fluctuations in water-table elevations.

[illegible]



**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Ice Canyon Line Drip**  
**(March 26, 2003)**

**LEGEND**

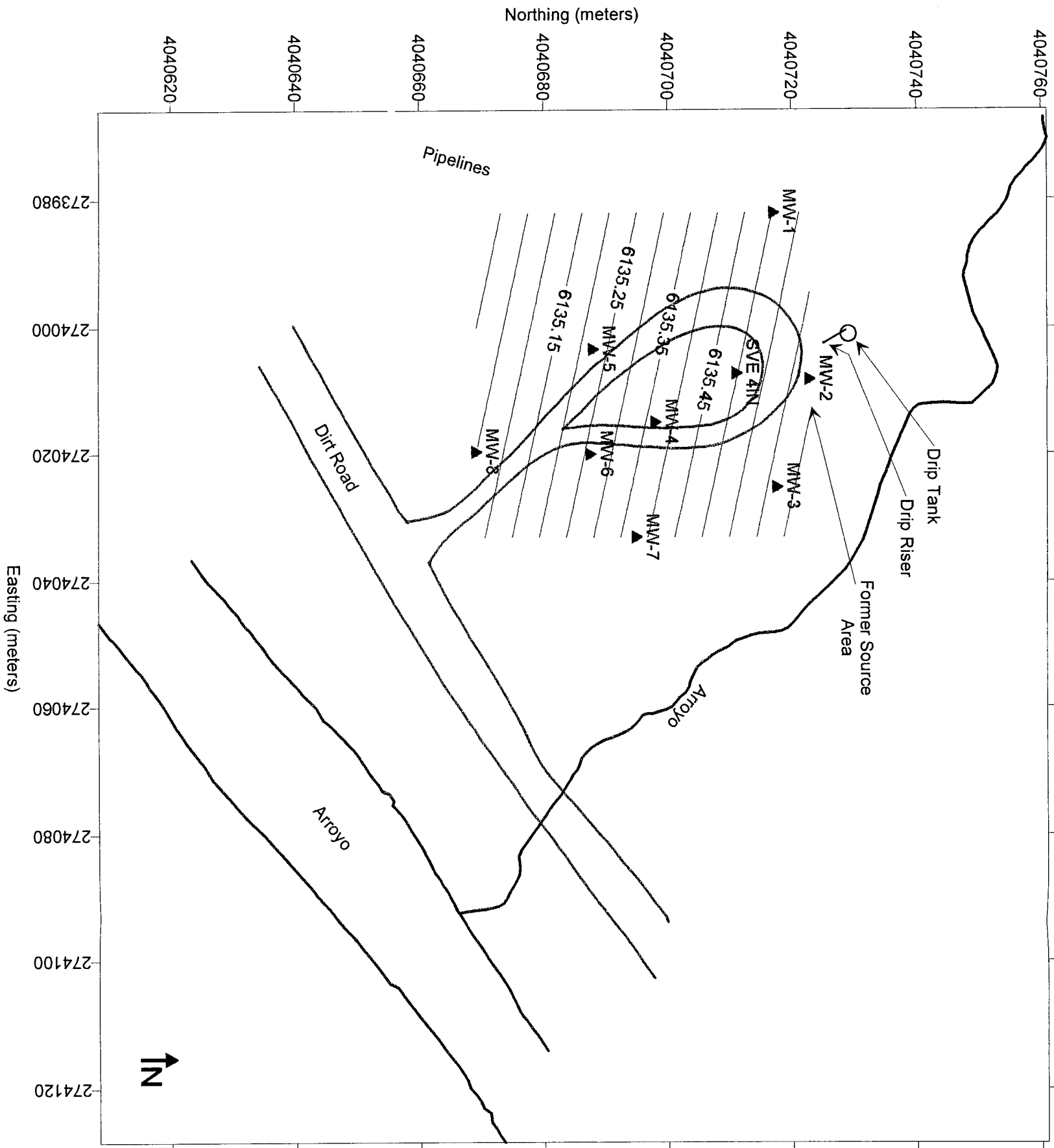
MW-2

▲

Monitoring Well

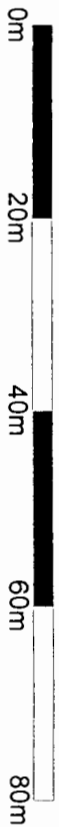
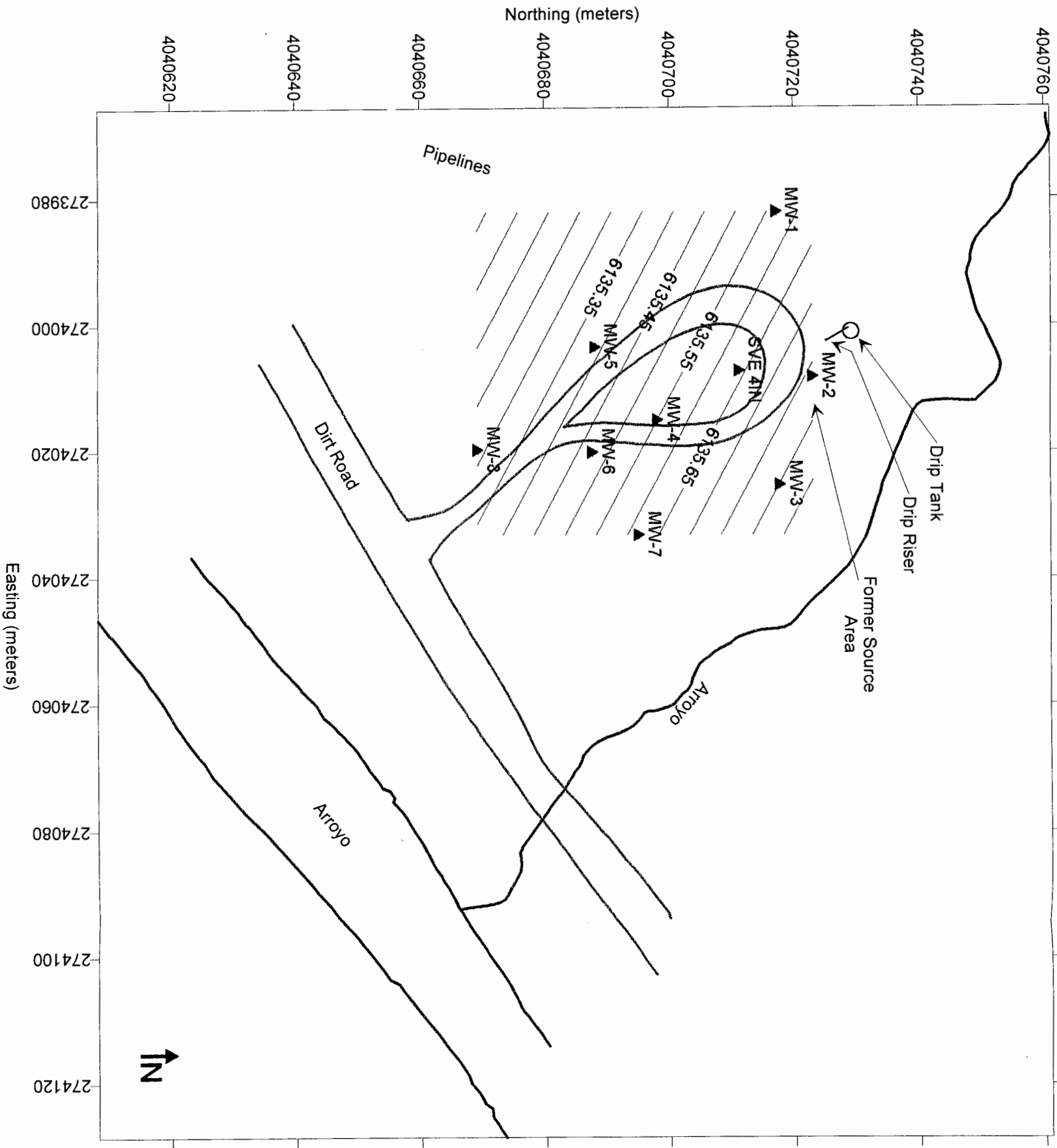
— 5585.20 —

Ground Water Elevation (ft. AMSL)



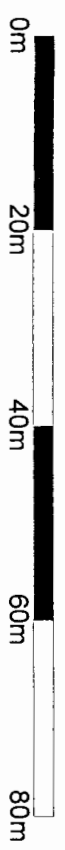
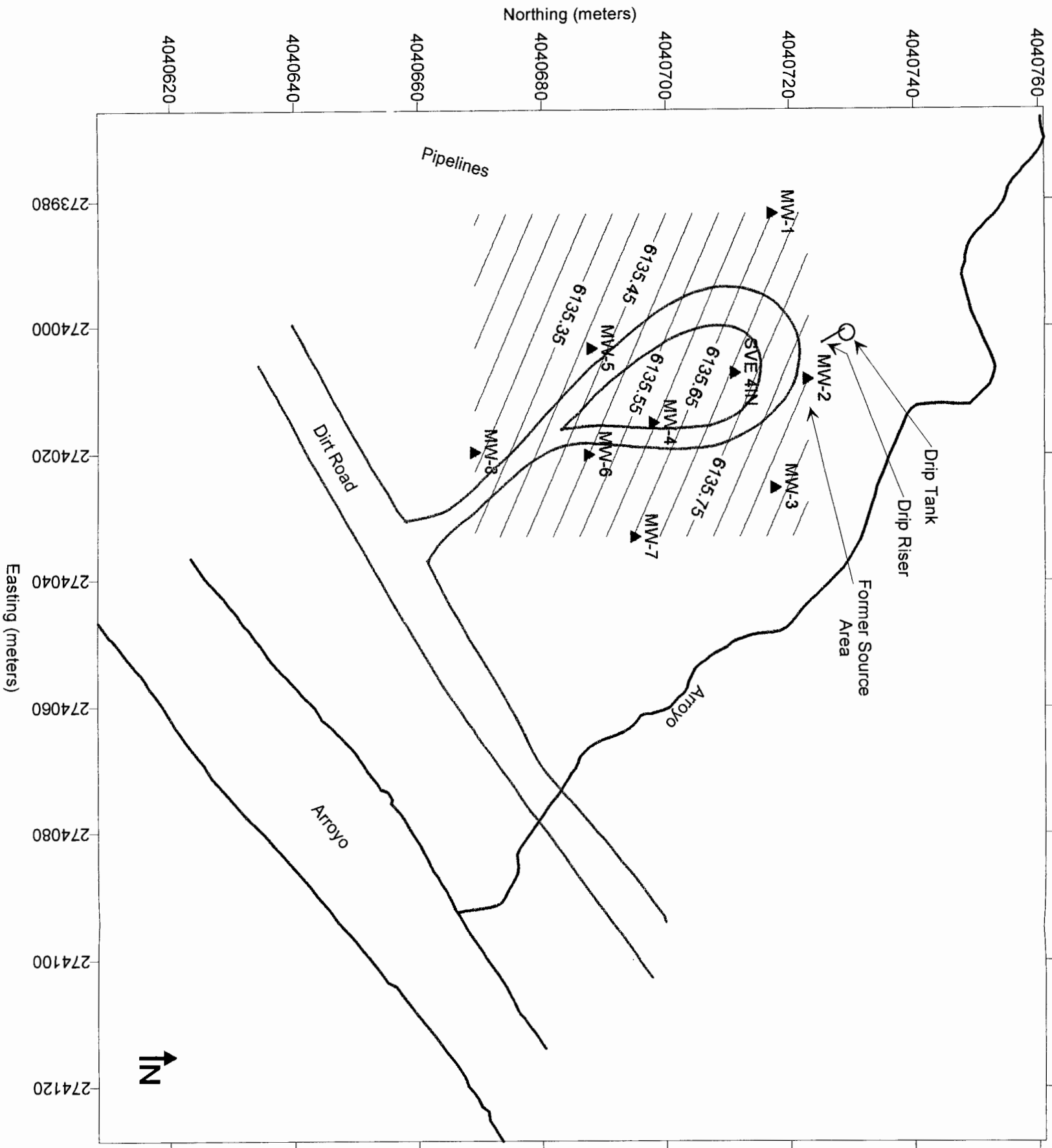
**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Ice Canyon Line Drip**  
**(June 2, 2003)**

| LEGEND  |                                   |
|---------|-----------------------------------|
| MW-2    | Monitoring Well                   |
| 5585.20 | Ground Water Elevation (ft. AMSL) |



**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Ice Canyon Line Drip**  
**(September 22, 2003)**





**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Ice Canyon Line Drip**  
**(December 16, 2003)**

| LEGEND      |                                   |
|-------------|-----------------------------------|
| MW-2        | Monitoring Well                   |
| ▲           | Monitoring Well                   |
| — 5585.20 — | Ground Water Elevation (ft. AMSL) |

# Analytical Data Summary

Site Name:  
Ice Canyon Drip

Reporting Period:  
1/1/03 To 12/31/03

| Well ID | Sample Date | Sample ID   | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylene (Total)<br>ug/l |
|---------|-------------|-------------|-----------------|-----------------|----------------------|------------------------|
| MW-1    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 112626MAR03 | ND              | ND              | ND                   | ND                     |
|         | 6/2/03      | 101502JUN03 | ND              | ND              | ND                   | ND                     |
|         | 9/22/03     | 122522SEP03 | ND              | ND              | ND                   | ND                     |
|         | 12/16/03    | 110516DEC03 | ND              | ND              | ND                   | ND                     |
| MW-2    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 113826MAR03 | 300             | 17.             | 56.                  | 370                    |
|         | 6/2/03      | 102602JUN03 | 2300            | 16.             | 540                  | 2300                   |
|         | 9/22/03     | 131922SEP03 | 560             | 11.             | 120                  | 380                    |
|         | 12/16/03    | 121316DEC03 | 330             | 15.             | 110                  | 46.                    |
| MW-3    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 113326MAR03 | ND              | ND              | ND                   | ND                     |
|         | 6/2/03      | 103402JUN03 | ND              | ND              | ND                   | ND                     |
|         | 9/22/03     | 131122SEP03 | ND              | ND              | ND                   | ND                     |
|         | 12/16/03    | 114716DEC03 | ND              | ND              | ND                   | ND                     |
| MW-4    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 112126MAR03 | 4.8             | 3.3             | ND                   | 9.2                    |
|         | 6/2/03      | 104602JUN03 | 53.             | 2.2             | 21.                  | 60.                    |
|         | 9/22/03     | 130322SEP03 | 230             | 170             | 160                  | 720                    |
|         | 12/16/03    | 123016DEC03 | ND              | ND              | ND                   | ND                     |
| MW-5    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 110026MAR03 | ND              | ND              | ND                   | ND                     |
|         | 6/2/03      | 105202JUN03 | 61.             | 9.6             | 2.5                  | ND                     |
|         | 9/22/03     | 125722SEP03 | 280             | 50.             | 8.5                  | 41.                    |
|         | 12/16/03    | 114016DEC03 | 250             | 16.             | 24.                  | 26.                    |
| MW-6    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 111226MAR03 | 26.             | 2.0             | 41.                  | 410                    |
|         | 6/2/03      | 105902JUN03 | 130             | ND              | 230                  | 2400                   |
|         | 9/22/03     | 124922SEP03 | 67.             | ND              | 150                  | 1400                   |
|         | 12/16/03    | 115816DEC03 | 57.             | ND              | 210                  | 1800                   |
| MW-7    |             |             |                 |                 |                      |                        |
|         | 3/26/03     | 111826MAR03 | ND              | ND              | ND                   | ND                     |
|         | 6/2/03      | 110902JUN03 | ND              | ND              | ND                   | ND                     |
|         | 9/22/03     | 124122SEP03 | ND              | ND              | ND                   | ND                     |
|         | 12/16/03    | 113116DEC03 | ND              | ND              | ND                   | ND                     |

Site Name:

Ice Canyon Drip

Reporting Period:

1/1/03 To 12/31/03

| Well ID | Sample Date | Sample ID   | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylene (Total)<br>ug/l |
|---------|-------------|-------------|-----------------|-----------------|----------------------|------------------------|
| MW-8    | 3/26/03     | 110526MAR03 | ND              | ND              | ND                   | ND                     |
|         | 6/2/03      | 111602JUN03 | ND              | ND              | ND                   | ND                     |
|         | 9/22/03     | 123422SEP03 | ND              | ND              | ND                   | ND                     |
|         | 12/16/03    | 111616DEC03 | ND              | ND              | ND                   | ND                     |
|         |             |             |                 |                 |                      |                        |



**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

March 31, 2003

Mr. Jim Struhs  
MILE HIGH ENVIRONMENTAL  
187 C.R. 4980  
Bloomfield, NM 87413

RE: Lab Project Number: 6068834  
Client Project ID: SJB-GW ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls  
mjwalls@pacelabs.com  
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6068834  
Client Project ID: SJB-GW ICE

| Project       | Sample    |                  |        |                |                |
|---------------|-----------|------------------|--------|----------------|----------------|
| Sample Number | Number    | Client Sample ID | Matrix | Date Collected | Date Received  |
| 6068834-001   | 605936210 | 113326MAR03      | Water  | 03/26/03 11:33 | 03/27/03 09:45 |
| 6068834-002   | 605936228 | 112126MAR03      | Water  | 03/26/03 11:21 | 03/27/03 09:45 |
| 6068834-003   | 605936236 | 112626MAR03      | Water  | 03/26/03 11:26 | 03/27/03 09:45 |
| 6068834-004   | 605936244 | 113826MAR03      | Water  | 03/26/03 11:38 | 03/27/03 09:45 |
| 6068834-005   | 605936251 | 111226MAR03      | Water  | 03/26/03 11:12 | 03/27/03 09:45 |
| 6068834-006   | 605936285 | 110526MAR03      | Water  | 03/26/03 11:05 | 03/27/03 09:45 |
| 6068834-007   | 605936293 | 112026MAR03      | Water  | 03/26/03 11:00 | 03/27/03 09:45 |
| 6068834-008   | 605936301 | 111826MAR03      | Water  | 03/26/03 11:18 | 03/27/03 09:45 |

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## SAMPLE ANALYTE COUNT

**Pace Analytical Services, Inc.**

9608 Loiret Blvd.

Lenexa, KS 66219

Phone: 913.599.5665

Fax: 913.599.1759

Lab Project Number: 6068834

Client Project ID: SJB-GW ICE

| Project       |           |                  | Analysis |      | Analysis Description       | Analytes Reported |
|---------------|-----------|------------------|----------|------|----------------------------|-------------------|
| Sample Number | Sample No | Client Sample ID | Code     |      |                            |                   |
| 6068834-001   | 605936210 | 113326MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-002   | 605936228 | 112126MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-003   | 605936236 | 112626MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-004   | 605936244 | 113826MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-005   | 605936251 | 111226MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-006   | 605936285 | 110526MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-007   | 605936293 | 111026MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6068834-008   | 605936301 | 111826MAR03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068834  
Client Project ID: SJB-GW ICE

Lab Sample No: 605936210 Project Sample Number: 6068834-001 Date Collected: 03/26/03 11:33  
Client Sample ID: 113326MAR03 Matrix: Water Date Received: 03/27/03 09:45

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 03/28/03 21:32 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 03/28/03 21:32 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 03/28/03 21:32 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 03/28/03 21:32 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 106              | %     |              | 1.0 | 03/28/03 21:32 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068834  
Client Project ID: SJB-GW ICE

Lab Sample No: 605936228      Project Sample Number: 6068834-002      Date Collected: 03/26/03 11:21  
Client Sample ID: 112126MAR03      Matrix: Water      Date Received: 03/27/03 09:45

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |     |           |      |        |
| Benzene                    | 4.8              | ug/l  | 2.0          | 1.0 | 03/28/03 22:01 | DCI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 03/28/03 22:01 | DCI | 100-41-4  |      |        |
| Toluene                    | 3.3              | ug/l  | 2.0          | 1.0 | 03/28/03 22:01 | DCI | 108-88-3  |      |        |
| Xylene (Total)             | 9.2              | ug/l  | 5.0          | 1.0 | 03/28/03 22:01 | DCI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 107              | %     |              | 1.0 | 03/28/03 22:01 | DCI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605936236

Client Sample ID: 112626MAR03

Project Sample Number: 6068834-003

Matrix: Water

Date Collected: 03/26/03 11:26

Date Received: 03/27/03 09:45

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

## GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |      |           |  |  |
|----------------------------|-----|------|-----|-----|----------------|------|-----------|--|--|
| Benzene                    | ND  | ug/l | 2.0 | 1.0 | 03/28/03 22:30 | DCKI | 71-43-2   |  |  |
| Ethylbenzene               | ND  | ug/l | 2.0 | 1.0 | 03/28/03 22:30 | DCKI | 100-41-4  |  |  |
| Toluene                    | ND  | ug/l | 2.0 | 1.0 | 03/28/03 22:30 | DCKI | 108-88-3  |  |  |
| Xylene (Total)             | ND  | ug/l | 5.0 | 1.0 | 03/28/03 22:30 | DCKI | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 104 | %    |     | 1.0 | 03/28/03 22:30 | DCKI | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605936244

Project Sample Number: 6068834-004

Date Collected: 03/26/03 11:38

Client Sample ID: 113826MAR03

Matrix: Water

Date Received: 03/27/03 09:45

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

## GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |      |           |  |  |
|----------------------------|-----|------|-----|-----|----------------|------|-----------|--|--|
| Benzene                    | 300 | ug/l | 10. | 5.0 | 03/29/03 12:04 | DCKI | 71-43-2   |  |  |
| Ethylbenzene               | 56. | ug/l | 2.0 | 1.0 | 03/28/03 23:00 | DCKI | 100-41-4  |  |  |
| Toluene                    | 17. | ug/l | 2.0 | 1.0 | 03/28/03 23:00 | DCKI | 108-88-3  |  |  |
| Xylene (Total)             | 370 | ug/l | 5.0 | 1.0 | 03/28/03 23:00 | DCKI | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 114 | %    |     | 1.0 | 03/28/03 23:00 | DCKI | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605936251

Project Sample Number: 6068834-005

Date Collected: 03/26/03 11:12

Client Sample ID: 111226MAR03

Matrix: Water

Date Received: 03/27/03 09:45

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |      |           |   |  |
|----------------------------|-----|------|-----|-----|----------------|------|-----------|---|--|
| Benzene                    | 26. | ug/l | 2.0 | 1.0 | 03/29/03 12:33 | DCKI | 71-43-2   |   |  |
| Ethylbenzene               | 41. | ug/l | 2.0 | 1.0 | 03/29/03 12:33 | DCKI | 100-41-4  |   |  |
| Toluene                    | 2.0 | ug/l | 2.0 | 1.0 | 03/29/03 12:33 | DCKI | 108-88-3  |   |  |
| Xylene (Total)             | 410 | ug/l | 5.0 | 1.0 | 03/29/03 12:33 | DCKI | 1330-20-7 |   |  |
| a,a,a-Trifluorotoluene (S) | 122 | %    |     | 1.0 | 03/29/03 12:33 | DCKI | 98-08-8   | 1 |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605936285  
Client Sample ID: 110526MAR03

Project Sample Number: 6068834-006

Matrix: Water

Date Collected: 03/26/03 11:05

Date Received: 03/27/03 09:45

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | ReqLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

#### Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |     |           |  |  |
|----------------------------|-----|------|-----|-----|----------------|-----|-----------|--|--|
| Benzene                    | ND  | ug/l | 2.0 | 1.0 | 03/29/03 13:03 | DCI | 71-43-2   |  |  |
| Ethylbenzene               | ND  | ug/l | 2.0 | 1.0 | 03/29/03 13:03 | DCI | 100-41-4  |  |  |
| Toluene                    | ND  | ug/l | 2.0 | 1.0 | 03/29/03 13:03 | DCI | 108-88-3  |  |  |
| Xylene (Total)             | ND  | ug/l | 5.0 | 1.0 | 03/29/03 13:03 | DCI | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 104 | %    |     | 1.0 | 03/29/03 13:03 | DCI | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068834  
Client Project ID: SJB-GW ICE

Lab Sample No: 605936293 Project Sample Number: 6068834-007 Date Collected: 03/26/03 11:00  
Client Sample ID: ~~111026MAR03~~ <sup>110026MAR03</sup> Matrix: Water Date Received: 03/27/03 09:45

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

|                            |                  |      |     |     |                |     |           |  |  |
|----------------------------|------------------|------|-----|-----|----------------|-----|-----------|--|--|
| Aromatic Volatile Organics | Method: EPA 8021 |      |     |     |                |     |           |  |  |
| Benzene                    | ND               | ug/l | 2.0 | 1.0 | 03/29/03 13:32 | DCI | 71-43-2   |  |  |
| Ethylbenzene               | ND               | ug/l | 2.0 | 1.0 | 03/29/03 13:32 | DCI | 100-41-4  |  |  |
| Toluene                    | ND               | ug/l | 2.0 | 1.0 | 03/29/03 13:32 | DCI | 108-88-3  |  |  |
| Xylene (Total)             | ND               | ug/l | 5.0 | 1.0 | 03/29/03 13:32 | DCI | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 109              | %    |     | 1.0 | 03/29/03 13:32 | DCI | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605936301

Client Sample ID: 111826MAR03

Project Sample Number: 6068834-008

Matrix: Water

Date Collected: 03/26/03 11:18

Date Received: 03/27/03 09:45

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | ReqLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 03/29/03 14:02 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 03/29/03 14:02 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 03/29/03 14:02 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 03/29/03 14:02 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 106              | %     |              | 1.0 | 03/29/03 14:02 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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## PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

|     |                                                                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| ND  | Not detected at or above adjusted reporting limit                                                                                     |
| NC  | Not Calculable                                                                                                                        |
| J   | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit                              |
| MDL | Adjusted Method Detection Limit                                                                                                       |
| (S) | Surrogate                                                                                                                             |
| [1] | Surrogate recovery outside of acceptance window confirmed as a matrix effect by the analysis of a duplicate or MS/MSD on this sample. |

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## QUALITY CONTROL DATA

**Pace Analytical Services, Inc.**

9608 Loiret Blvd.

Lenexa, KS 66219

Phone: 913.599.5665

Fax: 913.599.1759

Lab Project Number: 6068834

Client Project ID: SJB-GW ICE

QC Batch: 141772      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      605936210      605936228      605936236      605936244      605936251  
                                         605936285      605936293      605936301

METHOD BLANK: 605939156  
Associated Lab Samples:      605936210      605936228      605936236      605936244      605936251      605936285      605936293  
                                         605936301

| Parameter                  | Units | Blank  | Reporting | Footnotes |
|----------------------------|-------|--------|-----------|-----------|
|                            |       | Result | Limit     |           |
| Benzene                    | ug/l  | ND     | 2.0       |           |
| Ethylbenzene               | ug/l  | ND     | 2.0       |           |
| Toluene                    | ug/l  | ND     | 2.0       |           |
| Xylene (Total)             | ug/l  | ND     | 5.0       |           |
| a,a,a-Trifluorotoluene (S) | %     | 104    |           |           |

LABORATORY CONTROL SAMPLE: 605939164

| Parameter                  | Units | Spike | LCS    | LCS   | % Rec  | Footnotes |
|----------------------------|-------|-------|--------|-------|--------|-----------|
|                            |       | Conc. | Result | % Rec | Limits |           |
| Benzene                    | ug/l  | 20.00 | 20.82  | 104   | 85-120 |           |
| Ethylbenzene               | ug/l  | 20.00 | 21.20  | 106   | 87-114 |           |
| Toluene                    | ug/l  | 20.00 | 21.04  | 105   | 87-114 |           |
| Xylene (Total)             | ug/l  | 60.00 | 62.49  | 104   | 88-115 |           |
| a,a,a-Trifluorotoluene (S) |       |       |        | 104   | 86-115 |           |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605941186      605941194

| Parameter                  | Units | 605938794 | Spike | MS     | MSD    | MS    | MSD   | % Rec  | Max | Footnotes |
|----------------------------|-------|-----------|-------|--------|--------|-------|-------|--------|-----|-----------|
|                            |       | Result    | Conc. | Result | Result | % Rec | % Rec | Limits | RPD |           |
| Benzene                    | ug/l  | 0         | 20.00 | 20.17  | 20.67  | 101   | 103   | 82-121 | 2   | 16        |
| Ethylbenzene               | ug/l  | 0         | 20.00 | 20.10  | 20.38  | 100   | 102   | 84-114 | 1   | 14        |
| Toluene                    | ug/l  | 0         | 20.00 | 20.28  | 20.64  | 101   | 103   | 85-112 | 2   | 18        |
| Xylene (Total)             | ug/l  | 0         | 60.00 | 59.94  | 61.27  | 100   | 102   | 83-115 | 2   | 16        |
| a,a,a-Trifluorotoluene (S) |       |           |       |        |        | 104   | 103   | 86-115 |     |           |

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## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

|        |                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------|
| LCS(D) | Laboratory Control Sample (Duplicate)                                                                    |
| MS(D)  | Matrix Spike (Duplicate)                                                                                 |
| DUP    | Sample Duplicate                                                                                         |
| ND     | Not detected at or above adjusted reporting limit                                                        |
| NC     | Not Calculable                                                                                           |
| J      | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL    | Adjusted Method Detection Limit                                                                          |
| RPD    | Relative Percent Difference                                                                              |
| (S)    | Surrogate                                                                                                |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

June 11, 2003

Mr. Jim Struhs  
MILE HIGH ENVIRONMENTAL  
188 C.R. 4900  
Bloomfield, NM 87413

RE: Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 5, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls  
mjwalls@pacelabs.com  
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

| Project<br>Sample Number | Sample<br>Number | Client Sample ID | Matrix | Date Collected | Date Received  |
|--------------------------|------------------|------------------|--------|----------------|----------------|
| 6071173-001              | 606131423        | 111602JUN03      | Water  | 06/02/03 11:16 | 06/05/03 09:15 |
| 6071173-002              | 606131431        | 103402JUN03      | Water  | 06/02/03 10:34 | 06/05/03 09:15 |
| 6071173-003              | 606131449        | 102602JUN03      | Water  | 06/02/03 10:26 | 06/05/03 09:15 |
| 6071173-004              | 606131456        | 105902JUN03      | Water  | 06/02/03 10:59 | 06/05/03 09:15 |
| 6071173-005              | 606131464        | 104602JUN03      | Water  | 06/02/03 10:46 | 06/05/03 09:15 |
| 6071173-006              | 606131472        | 105202JUN03      | Water  | 06/02/03 10:52 | 06/05/03 09:15 |
| 6071173-007              | 606131480        | 101502JUN03      | Water  | 06/02/03 10:15 | 06/05/03 09:15 |
| 6071173-008              | 606131498        | 110902JUN03      | Water  | 06/02/03 11:09 | 06/05/03 09:15 |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131423      Project Sample Number: 6071173-001      Date Collected: 06/02/03 11:16  
Client Sample ID: 111602JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:17 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:17 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:17 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 06/07/03 00:17 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 100              | %     |              | 1.0 | 06/07/03 00:17 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131431      Project Sample Number: 6071173-002      Date Collected: 06/02/03 10:34  
Client Sample ID: 103402JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:44 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:44 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 00:44 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 06/07/03 00:44 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 97               | %     |              | 1.0 | 06/07/03 00:44 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131449      Project Sample Number: 6071173-003      Date Collected: 06/02/03 10:26  
Client Sample ID: 102602JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

|                            |                  |      |     |      |                |      |           |  |  |
|----------------------------|------------------|------|-----|------|----------------|------|-----------|--|--|
| Aromatic Volatile Organics | Method: EPA 8021 |      |     |      |                |      |           |  |  |
| Benzene                    | 2300             | ug/l | 20. | 10.0 | 06/09/03 15:37 | DCKI | 71-43-2   |  |  |
| Ethylbenzene               | 540              | ug/l | 10. | 5.0  | 06/07/03 01:11 | DCKI | 100-41-4  |  |  |
| Toluene                    | 16.              | ug/l | 10. | 5.0  | 06/07/03 01:11 | DCKI | 108-88-3  |  |  |
| Xylene (Total)             | 2300             | ug/l | 50. | 10.0 | 06/09/03 15:37 | DCKI | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 104              | %    |     | 1.0  | 06/07/03 01:11 | DCKI | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131456      Project Sample Number: 6071173-004      Date Collected: 06/02/03 10:59  
Client Sample ID: 105902JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF   | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|------|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |      |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |      |                |     |           |      |        |
| Benzene                    | 130              | ug/l  | 40.          | 20.0 | 06/09/03 16:05 | DCI | 71-43-2   |      |        |
| Ethylbenzene               | 230              | ug/l  | 40.          | 20.0 | 06/09/03 16:05 | DCI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 40.          | 20.0 | 06/09/03 16:05 | DCI | 108-88-3  |      |        |
| Xylene (Total)             | 2400             | ug/l  | 100          | 20.0 | 06/09/03 16:05 | DCI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 190              | %     |              | 1.0  | 06/09/03 16:05 | DCI | 98-08-8   | 1    |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJ8GW-ICE

Lab Sample No: 606131464 Project Sample Number: 6071173-005 Date Collected: 06/02/03 10:46  
Client Sample ID: 104602JUN03 Matrix: Water Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | 53.              | ug/l  | 2.0          | 1.0 | 06/07/03 02:33 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | 21.              | ug/l  | 2.0          | 1.0 | 06/07/03 02:33 | DCKI | 100-41-4  |      |        |
| Toluene                    | 2.2              | ug/l  | 2.0          | 1.0 | 06/07/03 02:33 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | 60.              | ug/l  | 5.0          | 1.0 | 06/07/03 02:33 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 101              | %     |              | 1.0 | 06/07/03 02:33 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131472      Project Sample Number: 6071173-006      Date Collected: 06/02/03 10:52  
Client Sample ID: 105202JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

|                            |                  |      |     |     |                |     |           |   |  |
|----------------------------|------------------|------|-----|-----|----------------|-----|-----------|---|--|
| Aromatic Volatile Organics | Method: EPA 8021 |      |     |     |                |     |           |   |  |
| Benzene                    | 61.              | ug/l | 2.0 | 1.0 | 06/09/03 16:32 | DCI | 71-43-2   |   |  |
| Ethylbenzene               | 2.5              | ug/l | 2.0 | 1.0 | 06/09/03 16:32 | DCI | 100-41-4  |   |  |
| Toluene                    | 9.6              | ug/l | 2.0 | 1.0 | 06/09/03 16:32 | DCI | 108-88-3  |   |  |
| Xylene (Total)             | ND               | ug/l | 5.0 | 1.0 | 06/09/03 16:32 | DCI | 1330-20-7 |   |  |
| a,a,a-Trifluorotoluene (S) | 0                | %    |     | 1.0 | 06/09/03 16:32 | DCI | 98-08-8   | 1 |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173

Client Project ID: SJBGW-ICE

Lab Sample No: 606131480

Project Sample Number: 6071173-007

Date Collected: 06/02/03 10:15

Client Sample ID: 101502JUN03

Matrix: Water

Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | ReqLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:28 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:28 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:28 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 06/07/03 03:28 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 96               | %     |              | 1.0 | 06/07/03 03:28 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

Lab Sample No: 606131498      Project Sample Number: 6071173-008      Date Collected: 06/02/03 11:09  
Client Sample ID: 110902JUN03      Matrix: Water      Date Received: 06/05/03 09:15

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By   | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|------|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |      |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |      |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:55 | DCKI | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:55 | DCKI | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 06/07/03 03:55 | DCKI | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 06/07/03 03:55 | DCKI | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 91               | %     |              | 1.0 | 06/07/03 03:55 | DCKI | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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## PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

|     |                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------|
| ND  | Not detected at or above adjusted reporting limit                                                        |
| NC  | Not Calculable                                                                                           |
| J   | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit                                                                          |
| (S) | Surrogate                                                                                                |
| [1] | High surrogate recovery was confirmed as a matrix effect by a second analysis.                           |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6071173  
Client Project ID: SJBGW-ICE

QC Batch: 146426      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      606131423      606131431      606131449      606131456      606131464  
                                         606131472      606131480      606131498

METHOD BLANK: 606134120  
Associated Lab Samples:      606131423      606131431      606131449      606131456      606131464      606131472      606131480  
                                         606131498

| Parameter                  | Units | Blank  | Reporting | Footnotes |
|----------------------------|-------|--------|-----------|-----------|
|                            |       | Result | Limit     |           |
| Benzene                    | ug/l  | ND     | 2.0       |           |
| Ethylbenzene               | ug/l  | ND     | 2.0       |           |
| Toluene                    | ug/l  | ND     | 2.0       |           |
| Xylene (Total)             | ug/l  | ND     | 5.0       |           |
| a,a,a-Trifluorotoluene (S) | %     | 100    |           |           |

LABORATORY CONTROL SAMPLE: 606134138

| Parameter                  | Units | Spike | LCS    | LCS   | % Rec  | Footnotes |
|----------------------------|-------|-------|--------|-------|--------|-----------|
|                            |       | Conc. | Result | % Rec | Limits |           |
| Benzene                    | ug/l  | 20.00 | 22.57  | 113   | 85-120 |           |
| Ethylbenzene               | ug/l  | 20.00 | 21.97  | 110   | 87-114 |           |
| Toluene                    | ug/l  | 20.00 | 22.42  | 112   | 87-114 |           |
| Xylene (Total)             | ug/l  | 60.00 | 66.85  | 111   | 88-115 |           |
| a,a,a-Trifluorotoluene (S) |       |       |        | 95    | 86-115 |           |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606134427      606134435

| Parameter                  | Units | 606131423 | Spike | MS     | MSD    | MS    | MSD   | % Rec  | Max | Footnotes |
|----------------------------|-------|-----------|-------|--------|--------|-------|-------|--------|-----|-----------|
|                            |       | Result    | Conc. | Result | Result | % Rec | % Rec | Limits | RPD |           |
| Benzene                    | ug/l  | 0.5261    | 20.00 | 20.49  | 21.39  | 100   | 104   | 82-121 | 4   | 16        |
| Ethylbenzene               | ug/l  | 0         | 20.00 | 19.53  | 20.01  | 98    | 100   | 84-114 | 2   | 14        |
| Toluene                    | ug/l  | 0.2466    | 20.00 | 19.38  | 20.49  | 96    | 101   | 85-112 | 6   | 18        |
| Xylene (Total)             | ug/l  | 0.5948    | 60.00 | 58.28  | 59.34  | 96    | 98    | 83-115 | 2   | 16        |
| a,a,a-Trifluorotoluene (S) |       |           |       |        |        | 99    | 101   | 86-115 |     |           |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)  
MS(D) Matrix Spike (Duplicate)  
DUP Sample Duplicate  
ND Not detected at or above adjusted reporting limit  
NC Not Calculable  
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL Adjusted Method Detection Limit  
RPD Relative Percent Difference  
(S) Surrogate

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

October 06, 2003

Mr. Jim Struhs  
MILE HIGH ENVIRONMENTAL  
188 C.R. 4900  
Bloomfield, NM 87413

RE: Lab Project Number: 6075064  
Client Project ID: ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

For: Mary Jane Walls  
mjwalls@pacelabs.com  
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6075064  
Client Project ID: ICE

| Project              | Sample        |                         |               |                       |                      |
|----------------------|---------------|-------------------------|---------------|-----------------------|----------------------|
| <u>Sample Number</u> | <u>Number</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
| 6075064-001          | 606461697     | 122522SEP03             | Water         | 09/22/03 12:25        | 09/26/03 08:55       |
| 6075064-002          | 606461705     | 131922SEP03             | Water         | 09/22/03 13:19        | 09/26/03 08:55       |
| 6075064-003          | 606461713     | 131122SEP03             | Water         | 09/22/03 13:11        | 09/26/03 08:55       |
| 6075064-004          | 606461721     | 130322SEP03             | Water         | 09/22/03 13:03        | 09/26/03 08:55       |
| 6075064-005          | 606461739     | 125722SEP03             | Water         | 09/22/03 12:57        | 09/26/03 08:55       |
| 6075064-006          | 606461747     | 124922SEP03             | Water         | 09/22/03 12:49        | 09/26/03 08:55       |
| 6075064-007          | 606461754     | 124122SEP03             | Water         | 09/22/03 12:41        | 09/26/03 08:55       |
| 6075064-008          | 606461762     | 123422SEP03             | Water         | 09/22/03 12:34        | 09/26/03 08:55       |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

| Project       |           |                  | Analysis |      | Analysis Description       | Analytes Reported |
|---------------|-----------|------------------|----------|------|----------------------------|-------------------|
| Sample Number | Sample No | Client Sample ID | Code     |      |                            |                   |
| 6075064-001   | 606461697 | 122522SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-002   | 606461705 | 131922SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-003   | 606461713 | 131122SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-004   | 606461721 | 130322SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-005   | 606461739 | 125722SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-006   | 606461747 | 124922SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-007   | 606461754 | 124122SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6075064-008   | 606461762 | 123422SEP03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461697      Project Sample Number: 6075064-001      Date Collected: 09/22/03 12:25  
Client Sample ID: 122522SEP03      Matrix: Water      Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |     |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 10/03/03 10:42 | ARF | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 10/03/03 10:42 | ARF | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 10/03/03 10:42 | ARF | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 10/03/03 10:42 | ARF | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 101              | %     |              | 1.0 | 10/03/03 10:42 | ARF | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461705      Project Sample Number: 6075064-002      Date Collected: 09/22/03 13:19  
Client Sample ID: 131922SEP03      Matrix: Water      Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |     |           |      |        |
| Benzene                    | 560              | ug/l  | 10.          | 5.0 | 10/03/03 12:56 | ARF | 71-43-2   |      |        |
| Ethylbenzene               | 120              | ug/l  | 2.0          | 1.0 | 10/03/03 11:09 | ARF | 100-41-4  |      |        |
| Toluene                    | 11.              | ug/l  | 2.0          | 1.0 | 10/03/03 11:09 | ARF | 108-88-3  |      |        |
| Xylene (Total)             | 380              | ug/l  | 5.0          | 1.0 | 10/03/03 11:09 | ARF | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 102              | %     |              | 1.0 | 10/03/03 11:09 | ARF | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461713 Project Sample Number: 6075064-003 Date Collected: 09/22/03 13:11  
Client Sample ID: 131122SEP03 Matrix: Water Date Received: 09/26/03 08:55

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

#### Aromatic Volatile Organics

Method: EPA 8021

|                            |    |      |     |     |                |     |           |  |  |
|----------------------------|----|------|-----|-----|----------------|-----|-----------|--|--|
| Benzene                    | ND | ug/l | 2.0 | 1.0 | 10/02/03 17:00 | ARF | 71-43-2   |  |  |
| Ethylbenzene               | ND | ug/l | 2.0 | 1.0 | 10/02/03 17:00 | ARF | 100-41-4  |  |  |
| Toluene                    | ND | ug/l | 2.0 | 1.0 | 10/02/03 17:00 | ARF | 108-88-3  |  |  |
| Xylene (Total)             | ND | ug/l | 5.0 | 1.0 | 10/02/03 17:00 | ARF | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 98 | %    |     | 1.0 | 10/02/03 17:00 | ARF | 98-08-8   |  |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461721 Project Sample Number: 6075064-004 Date Collected: 09/22/03 13:03  
Client Sample ID: 130322SEP03 Matrix: Water Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |    |           |      |        |
| Benzene                    | 230              | ug/l  | 4.0          | 2.0 | 10/03/03 13:23 |    | 71-43-2   |      |        |
| Ethylbenzene               | 160              | ug/l  | 4.0          | 2.0 | 10/03/03 13:23 |    | 100-41-4  |      |        |
| Toluene                    | 170              | ug/l  | 4.0          | 2.0 | 10/03/03 13:23 |    | 108-88-3  |      |        |
| Xylene (Total)             | 720              | ug/l  | 10.          | 2.0 | 10/03/03 13:23 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 76               | %     |              | 1.0 | 10/03/03 13:23 |    | 98-08-8   | 1    |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461739 Project Sample Number: 6075064-005 Date Collected: 09/22/03 12:57  
Client Sample ID: 125722SEP03 Matrix: Water Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |     |           |      |        |
| Benzene                    | 280              | ug/l  | 4.0          | 2.0 | 10/02/03 17:53 | ARF | 71-43-2   |      |        |
| Ethylbenzene               | 8.5              | ug/l  | 4.0          | 2.0 | 10/02/03 17:53 | ARF | 100-41-4  |      |        |
| Toluene                    | 50.              | ug/l  | 4.0          | 2.0 | 10/02/03 17:53 | ARF | 108-88-3  |      |        |
| Xylene (Total)             | 41.              | ug/l  | 10.          | 2.0 | 10/02/03 17:53 | ARF | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 77               | %     |              | 1.0 | 10/02/03 17:53 | ARF | 98-08-8   | 1    |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461747      Project Sample Number: 6075064-006      Date Collected: 09/22/03 12:49  
Client Sample ID: 124922SEP03      Matrix: Water      Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF   | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|------|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |      |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |      |                |     |           |      |        |
| Benzene                    | 67.              | ug/l  | 20.          | 10.0 | 10/03/03 12:01 | ARF | 71-43-2   |      |        |
| Ethylbenzene               | 150              | ug/l  | 20.          | 10.0 | 10/03/03 12:01 | ARF | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 20.          | 10.0 | 10/03/03 12:01 | ARF | 108-88-3  |      |        |
| Xylene (Total)             | 1400             | ug/l  | 50.          | 10.0 | 10/03/03 12:01 | ARF | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 97               | %     |              | 1.0  | 10/03/03 12:01 | ARF | 98-08-8   | 2    |        |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461754 Project Sample Number: 6075064-007 Date Collected: 09/22/03 12:41  
Client Sample ID: 124122SEP03 Matrix: Water Date Received: 09/26/03 08:55

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

|                            |                  |      |     |     |          |       |     |           |  |
|----------------------------|------------------|------|-----|-----|----------|-------|-----|-----------|--|
| Aromatic Volatile Organics | Method: EPA 8021 |      |     |     |          |       |     |           |  |
| Benzene                    | ND               | ug/l | 2.0 | 1.0 | 10/02/03 | 19:39 | ARF | 71-43-2   |  |
| Ethylbenzene               | ND               | ug/l | 2.0 | 1.0 | 10/02/03 | 19:39 | ARF | 100-41-4  |  |
| Toluene                    | ND               | ug/l | 2.0 | 1.0 | 10/02/03 | 19:39 | ARF | 108-88-3  |  |
| Xylene (Total)             | ND               | ug/l | 5.0 | 1.0 | 10/02/03 | 19:39 | ARF | 1330-20-7 |  |
| a,a,a-Trifluorotoluene (S) | 98               | %    |     | 1.0 | 10/02/03 | 19:39 | ARF | 98-08-8   |  |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075064  
Client Project ID: ICE

Lab Sample No: 606461762 Project Sample Number: 6075064-008 Date Collected: 09/22/03 12:34  
Client Sample ID: 123422SEP03 Matrix: Water Date Received: 09/26/03 08:55

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By  | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|-----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |     |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |     |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 10/02/03 20:06 | ARF | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 10/02/03 20:06 | ARF | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 10/02/03 20:06 | ARF | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 10/02/03 20:06 | ARF | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 100              | %     |              | 1.0 | 10/02/03 20:06 | ARF | 98-08-8   |      |        |

## REPORT OF LABORATORY ANALYSIS

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## PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

|     |                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------|
| ND  | Not detected at or above adjusted reporting limit                                                        |
| NC  | Not Calculable                                                                                           |
| J   | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit                                                                          |
| (S) | Surrogate                                                                                                |
| [1] | Low surrogate recovery was confirmed as a matrix effect by a second analysis.                            |
| [2] | Sample was diluted due to matrix interference with the surrogate.                                        |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Lab Project Number: 6075064  
Client Project ID: ICE

QC Batch: 154332      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      606461697      606461705      606461713      606461721      606461739  
                                         606461747      606461754      606461762

METHOD BLANK: 606473387  
Associated Lab Samples:      606461697      606461705      606461713      606461721      606461739      606461747      606461754  
                                         606461762

| Parameter                  | Units | Blank Result | Reporting Limit | Footnotes |
|----------------------------|-------|--------------|-----------------|-----------|
| Benzene                    | ug/l  | ND           | 2.0             |           |
| Ethylbenzene               | ug/l  | ND           | 2.0             |           |
| Toluene                    | ug/l  | ND           | 2.0             |           |
| Xylene (Total)             | ug/l  | ND           | 5.0             |           |
| a,a,a-Trifluorotoluene (S) | %     | 101          |                 |           |

LABORATORY CONTROL SAMPLE: 606473395

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Footnotes |
|----------------------------|-------|-------------|------------|-----------|--------------|-----------|
| Benzene                    | ug/l  | 20.00       | 18.71      | 94        | 85-120       |           |
| Ethylbenzene               | ug/l  | 20.00       | 18.19      | 91        | 87-114       |           |
| Toluene                    | ug/l  | 20.00       | 19.52      | 98        | 87-114       |           |
| Xylene (Total)             | ug/l  | 60.00       | 54.26      | 90        | 88-115       |           |
| a,a,a-Trifluorotoluene (S) |       |             |            | 97        | 86-115       |           |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606473957      606473965

| Parameter                  | Units | 606461697 Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Footnotes |
|----------------------------|-------|------------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|-----------|
| Benzene                    | ug/l  | 0                | 20.00       | 18.14     | 18.61      | 91       | 93        | 82-121       | 3   | 16      |           |
| Ethylbenzene               | ug/l  | 0                | 20.00       | 18.39     | 18.58      | 92       | 93        | 84-114       | 1   | 14      |           |
| Toluene                    | ug/l  | 0                | 20.00       | 19.36     | 19.72      | 97       | 99        | 85-112       | 2   | 18      |           |
| Xylene (Total)             | ug/l  | 0                | 60.00       | 54.29     | 54.47      | 90       | 91        | 83-115       | 0   | 16      |           |
| a,a,a-Trifluorotoluene (S) |       |                  |             |           |            | 98       | 98        | 86-115       |     |         |           |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)  
MS(D) Matrix Spike (Duplicate)  
DUP Sample Duplicate  
ND Not detected at or above adjusted reporting limit  
NC Not Calculable  
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL Adjusted Method Detection Limit  
RPD Relative Percent Difference  
(S) Surrogate

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

December 23, 2003

Mr. Jim Struhs  
MILE HIGH ENVIRONMENTAL  
188 C.R. 4900  
Bloomfield, NM 87413

RE: Lab Project Number: 6077819  
Client Project ID: SJB-GW 12/16/03

ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2003. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls  
Mary Jane.Walls@pacelabs.com  
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 *ICE*

| Project<br>Sample Number | Sample<br>Number | Client Sample ID | Matrix | Date Collected | Date Received  |
|--------------------------|------------------|------------------|--------|----------------|----------------|
| 6077819-001              | 606699262        | 123016DEC03      | Water  | 12/16/03 12:30 | 12/19/03 10:20 |
| 6077819-002              | 606699270        | 111616DEC03      | Water  | 12/16/03 11:16 | 12/19/03 10:20 |
| 6077819-003              | 606699288        | 110516DEC03      | Water  | 12/16/03 11:05 | 12/19/03 10:20 |
| 6077819-004              | 606699296        | 114716DEC03      | Water  | 12/16/03 11:47 | 12/19/03 10:20 |
| 6077819-005              | 606699304        | 114016DEC03      | Water  | 12/16/03 11:40 | 12/19/03 10:20 |
| 6077819-006              | 606699312        | 115816DEC03      | Water  | 12/16/03 11:58 | 12/19/03 10:20 |
| 6077819-007              | 606699320        | 121316DEC03      | Water  | 12/16/03 12:13 | 12/19/03 10:20 |
| 6077819-008              | 606699338        | 113116DEC03      | Water  | 12/16/03 11:31 | 12/19/03 10:20 |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 *ICL*

| Project       |           |                  | Analysis |      | Analysis Description       | Analytes Reported |
|---------------|-----------|------------------|----------|------|----------------------------|-------------------|
| Sample Number | Sample No | Client Sample ID | Code     |      |                            |                   |
| 6077819-001   | 606699262 | 123016DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-002   | 606699270 | 111616DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-003   | 606699288 | 110516DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-004   | 606699296 | 114716DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-005   | 606699304 | 114016DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-006   | 606699312 | 115816DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-007   | 606699320 | 121316DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |
| 6077819-008   | 606699338 | 113116DEC03      | 8020     | WPAC | Aromatic Volatile Organics | 5                 |

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 ICE

Lab Sample No: 606699262  
Client Sample ID: 123016DEC03

Project Sample Number: 6077819-001  
Matrix: Water

Date Collected: 12/16/03 12:30  
Date Received: 12/19/03 10:20

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |    |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 17:57 |    | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 17:57 |    | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 17:57 |    | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 12/21/03 17:57 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 102              | %     |              | 1.0 | 12/21/03 17:57 |    | 98-08-8   |      |        |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 *ICE*

Lab Sample No: 606699270  
Client Sample ID: 111616DEC03

Project Sample Number: 6077819-002  
Matrix: Water

Date Collected: 12/16/03 11:16  
Date Received: 12/19/03 10:20

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |    |           |      |        |
| Benzene                    | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 18:24 |    | 71-43-2   |      |        |
| Ethylbenzene               | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 18:24 |    | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 2.0          | 1.0 | 12/21/03 18:24 |    | 108-88-3  |      |        |
| Xylene (Total)             | ND               | ug/l  | 5.0          | 1.0 | 12/21/03 18:24 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 102              | %     |              | 1.0 | 12/21/03 18:24 |    | 98-08-8   |      |        |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 ICE

Lab Sample No: 606699288

Project Sample Number: 6077819-003

Date Collected: 12/16/03 11:05

Client Sample ID: 110516DEC03

Matrix: Water

Date Received: 12/19/03 10:20

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

#### Aromatic Volatile Organics

Method: EPA 8021

|                            |    |      |     |     |                |  |           |  |  |
|----------------------------|----|------|-----|-----|----------------|--|-----------|--|--|
| Benzene                    | ND | ug/l | 2.0 | 1.0 | 12/21/03 18:52 |  | 71-43-2   |  |  |
| Ethylbenzene               | ND | ug/l | 2.0 | 1.0 | 12/21/03 18:52 |  | 100-41-4  |  |  |
| Toluene                    | ND | ug/l | 2.0 | 1.0 | 12/21/03 18:52 |  | 108-88-3  |  |  |
| Xylene (Total)             | ND | ug/l | 5.0 | 1.0 | 12/21/03 18:52 |  | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 98 | %    |     | 1.0 | 12/21/03 18:52 |  | 98-08-8   |  |  |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 ICE

Lab Sample No: 606699296

Project Sample Number: 6077819-004

Date Collected: 12/16/03 11:47

Client Sample ID: 114716DEC03

Matrix: Water

Date Received: 12/19/03 10:20

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | ReqLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

#### Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |  |           |  |  |
|----------------------------|-----|------|-----|-----|----------------|--|-----------|--|--|
| Benzene                    | ND  | ug/l | 2.0 | 1.0 | 12/21/03 19:19 |  | 71-43-2   |  |  |
| Ethylbenzene               | ND  | ug/l | 2.0 | 1.0 | 12/21/03 19:19 |  | 100-41-4  |  |  |
| Toluene                    | ND  | ug/l | 2.0 | 1.0 | 12/21/03 19:19 |  | 108-88-3  |  |  |
| Xylene (Total)             | ND  | ug/l | 5.0 | 1.0 | 12/21/03 19:19 |  | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 104 | %    |     | 1.0 | 12/21/03 19:19 |  | 98-08-8   |  |  |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 *ICE*

Lab Sample No: 606699304  
Client Sample ID: 114016DEC03

Project Sample Number: 6077819-005  
Matrix: Water

Date Collected: 12/16/03 11:40  
Date Received: 12/19/03 10:20

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |    |           |      |        |
| Benzene                    | 250              | ug/l  | 10.          | 5.0 | 12/21/03 19:46 |    | 71-43-2   |      |        |
| Ethylbenzene               | 24.              | ug/l  | 10.          | 5.0 | 12/21/03 19:46 |    | 100-41-4  |      |        |
| Toluene                    | 16.              | ug/l  | 10.          | 5.0 | 12/21/03 19:46 |    | 108-88-3  |      |        |
| Xylene (Total)             | 26.              | ug/l  | 25.          | 5.0 | 12/21/03 19:46 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 101              | %     |              | 1.0 | 12/21/03 19:46 |    | 98-08-8   |      |        |

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Lab Project Number: 6077819  
Client Project ID: SJB-GW 12/16/03 *ICE*

Lab Sample No: 606699312      Project Sample Number: 6077819-006      Date Collected: 12/16/03 11:58  
Client Sample ID: 115816DEC03      Matrix: Water      Date Received: 12/19/03 10:20

| Parameters                 | Results          | Units | Report Limit | DF   | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|------|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |      |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |      |                |    |           |      |        |
| Benzene                    | 57.              | ug/l  | 20.          | 10.0 | 12/21/03 20:14 |    | 71-43-2   |      |        |
| Ethylbenzene               | 210              | ug/l  | 20.          | 10.0 | 12/21/03 20:14 |    | 100-41-4  |      |        |
| Toluene                    | ND               | ug/l  | 20.          | 10.0 | 12/21/03 20:14 |    | 108-88-3  |      |        |
| Xylene (Total)             | 1800             | ug/l  | 50.          | 10.0 | 12/21/03 20:14 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 0                | %     |              | 1.0  | 12/21/03 20:14 |    | 98-08-8   | 1    |        |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03 *JCE*

Lab Sample No: 606699320  
Client Sample ID: 121316DEC03

Project Sample Number: 6077819-007  
Matrix: Water

Date Collected: 12/16/03 12:13  
Date Received: 12/19/03 10:20

| Parameters                 | Results          | Units | Report Limit | DF  | Analyzed       | By | CAS No.   | Qual | RegLmt |
|----------------------------|------------------|-------|--------------|-----|----------------|----|-----------|------|--------|
| <b>GC Volatiles</b>        |                  |       |              |     |                |    |           |      |        |
| Aromatic Volatile Organics | Method: EPA 8021 |       |              |     |                |    |           |      |        |
| Benzene                    | 330              | ug/l  | 10.          | 5.0 | 12/22/03 09:57 |    | 71-43-2   |      |        |
| Ethylbenzene               | 110              | ug/l  | 10.          | 5.0 | 12/22/03 09:57 |    | 100-41-4  |      |        |
| Toluene                    | 15.              | ug/l  | 10.          | 5.0 | 12/22/03 09:57 |    | 108-88-3  |      |        |
| Xylene (Total)             | 46.              | ug/l  | 25.          | 5.0 | 12/22/03 09:57 |    | 1330-20-7 |      |        |
| a,a,a-Trifluorotoluene (S) | 105              | %     |              | 1.0 | 12/22/03 09:57 |    | 98-08-8   |      |        |

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Lab Project Number: 6077819

Client Project ID: SJB-GW 12/16/03

ICE

Lab Sample No: 606699338  
Client Sample ID: 113116DEC03

Project Sample Number: 6077819-008

Matrix: Water

Date Collected: 12/16/03 11:31

Date Received: 12/19/03 10:20

| Parameters | Results | Units | Report Limit | DF | Analyzed | By | CAS No. | Qual | RegLmt |
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|
|------------|---------|-------|--------------|----|----------|----|---------|------|--------|

### GC Volatiles

#### Aromatic Volatile Organics

Method: EPA 8021

|                            |     |      |     |     |                |  |           |  |  |
|----------------------------|-----|------|-----|-----|----------------|--|-----------|--|--|
| Benzene                    | ND  | ug/l | 2.0 | 1.0 | 12/21/03 21:37 |  | 71-43-2   |  |  |
| Ethylbenzene               | ND  | ug/l | 2.0 | 1.0 | 12/21/03 21:37 |  | 100-41-4  |  |  |
| Toluene                    | ND  | ug/l | 2.0 | 1.0 | 12/21/03 21:37 |  | 108-88-3  |  |  |
| Xylene (Total)             | ND  | ug/l | 5.0 | 1.0 | 12/21/03 21:37 |  | 1330-20-7 |  |  |
| a,a,a-Trifluorotoluene (S) | 102 | %    |     | 1.0 | 12/21/03 21:37 |  | 98-08-8   |  |  |

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## PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

|     |                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------|
| ND  | Not detected at or above adjusted reporting limit                                                        |
| NC  | Not Calculable                                                                                           |
| J   | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL | Adjusted Method Detection Limit                                                                          |
| (S) | Surrogate                                                                                                |
| [1] | Low surrogate recovery was confirmed as a matrix effect by a second analysis.                            |

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## QUALITY CONTROL DATA

**Pace Analytical Services, Inc.**  
9608 Loiret Blvd.  
Lenexa, KS 66219  
Phone: 913.599.5665  
Fax: 913.599.1759

Lab Project Number: 6077819  
Client Project ID: SJB-GW 12/16/03

QC Batch: 159528      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      606699262      606699270      606699288      606699296      606699304  
                                         606699312      606699320      606699338

METHOD BLANK: 606701415  
Associated Lab Samples:      606699262      606699270      606699288      606699296      606699304      606699312      606699320  
                                         606699338

| Parameter                  | Units | Blank  | Reporting | Footnotes |
|----------------------------|-------|--------|-----------|-----------|
|                            |       | Result | Limit     |           |
| Benzene                    | ug/l  | ND     | 2.0       |           |
| Ethylbenzene               | ug/l  | ND     | 2.0       |           |
| Toluene                    | ug/l  | ND     | 2.0       |           |
| Xylene (Total)             | ug/l  | ND     | 5.0       |           |
| a,a,a-Trifluorotoluene (S) | %     | 105    |           |           |

LABORATORY CONTROL SAMPLE: 606701423

| Parameter                  | Units | Spike | LCS    | LCS   | % Rec  | Footnotes |
|----------------------------|-------|-------|--------|-------|--------|-----------|
|                            |       | Conc. | Result | % Rec | Limits |           |
| Benzene                    | ug/l  | 20.00 | 19.89  | 100   | 85-120 |           |
| Ethylbenzene               | ug/l  | 20.00 | 20.26  | 101   | 87-114 |           |
| Toluene                    | ug/l  | 20.00 | 19.91  | 100   | 87-114 |           |
| Xylene (Total)             | ug/l  | 60.00 | 62.51  | 104   | 88-115 |           |
| a,a,a-Trifluorotoluene (S) |       |       |        | 100   | 86-115 |           |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606701654      606701662

| Parameter                  | Units | 606699338 | Spike | MS     | MSD    | MS    | MSD   | % Rec  | Max | Footnotes |
|----------------------------|-------|-----------|-------|--------|--------|-------|-------|--------|-----|-----------|
|                            |       | Result    | Conc. | Result | Result | % Rec | % Rec | Limits | RPD |           |
| Benzene                    | ug/l  | 0.09755   | 20.00 | 19.65  | 19.85  | 98    | 99    | 82-121 | 1   | 16        |
| Ethylbenzene               | ug/l  | 0         | 20.00 | 19.98  | 20.15  | 100   | 101   | 84-114 | 1   | 14        |
| Toluene                    | ug/l  | 0.1050    | 20.00 | 19.51  | 19.85  | 97    | 99    | 85-112 | 2   | 18        |
| Xylene (Total)             | ug/l  | 0.1039    | 60.00 | 61.18  | 62.10  | 102   | 103   | 83-115 | 1   | 16        |
| a,a,a-Trifluorotoluene (S) |       |           |       |        |        | 101   | 100   | 86-115 |     |           |

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## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

|        |                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------|
| LCS(D) | Laboratory Control Sample (Duplicate)                                                                    |
| MS(D)  | Matrix Spike (Duplicate)                                                                                 |
| DUP    | Sample Duplicate                                                                                         |
| ND     | Not detected at or above adjusted reporting limit                                                        |
| NC     | Not Calculable                                                                                           |
| J      | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| MDL    | Adjusted Method Detection Limit                                                                          |
| RPD    | Relative Percent Difference                                                                              |
| (S)    | Surrogate                                                                                                |

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