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Appendix K of the RI Report

# Laboratory Analytical Results

## Nease Chemical Company – Salem, Ohio Site

**Volume 4 of 4**
(2 of 2)

- Round 1 Groundwater Sampling Analysis
- Round 2 Groundwater Sampling Analysis
- Site Surface Drainageways
- Appendix L (Aquifer Slug Test Results)
- Appendix M (Recent Water Level Table)

**April 5, 1991**
July 6, 1993 : Revision 1

**Submitted by**

EPA Region 5 Records Ctr.
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**Ruetgers-Nease**
**Chemical Company, Inc.**
State College, Pennsylvania

# APPENDIX K
# (ROUND 1)
# LABORATORY ANALYTICAL RESULTS

## APPENDIX K

## ROUND 1 GROUNDWATER

- Volatile Compounds
- Volatile Tentatively Identified Compounds
- Semivolatile Compounds
- Semivolatile Tentatively Identified Compounds
- Pesticides/PCBs
- Mirex, Photomirex and Kepone
- Dioxins/Furans
- Inorganics

LEGEND:

| | |
|---|---|
| - | Compound was not detected. |
| J | Quantitation is approximate due to limitations identified during the quality control review (data validation). |
| N | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification." |
| R | *Unreliable result - analyte may or may not be present in this sample.* |
| UL | This analyte was not detected, but the quantitation limit is higher due to a low bias identified during the quality assurance review. |
| U | This compound should be considered "not detected" since it was detected in a blank at a similar level. |
| S | Matrix spike compound. |
| NA | Not analyzed. |
| B | This result is qualitatively suspect since this compound was detected in field and/or laboratory blanks at similar levels. |
| NR | Not received in time to be included in this submittal. |
| blank | The compound/constituent was analyzed for, but was not detected at a concentration at/or above the quantitation limit/detection limit. |

* The presence of this compound is indicated; however, the exact concentration cannot be calculated.

** This result for this compound is being reported from a dilution analysis.

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Volatile Compounds

VOLATILE ORGANIC ANALYSIS

| ERM Midwest Sample Number | RNS | RNS-GW-ILB | RNS-GW-JVF2 | RNS-GW-JVF3 | RNS-GW JVF4 | RNS-GW-JLB | RNS GW KVF2 | RNS-GW-KVF4 | RNS-GW-KLB |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V009 | V051 | V052 | V053 | VO48 | V016 | V017 | V007 |
| Remarks | | | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | 1 J | | | UJ | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | UJ | | | UJ | | | |
| Chloroethane | 10 | | | UJ | UJ | | | | |
| Methylene Chloride | 10 | | | | | | | | |
| Acetone | 10 | | UJ | UJ | UJ | UJ | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | | | | |
| Chloroform | 10 | | | | | | | | |
| 1,2-Dichloroethane | 10 | | | | | | | | |
| 2-Butanone | 10 | | UJ | 10 U | 10 U | 10 U | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | |
| Trichloroethene | 10 | | | | | | | | |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | | UJ | | | UJ | | | |
| cis-1,3-Dichloropropene | 10 | | | | | | UJ | UJ | UJ |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | UJ | UJ | UJ | UJ | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | | | | |
| Tetrachloroethene | 10 | | | | | | | | |
| Toluene | 10 | | | | | | | | |
| Chlorobenzene | 10 | | | | | | | | |
| Ethylbenzene | 10 | | | | | | | | |
| Styrene | 10 | | | | | | | | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/21/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/21/92 | 10/21/92 | 10/20/92 |
| Date Sample Received by Laboratory | | 10/23/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/22/92 | 10/22/92 | 10/21/92 |
| Date of Sample Analysis | | 10/30/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/29/92 | 10/29/92 | 10/29/92 |
| Instrument Used for Analysis | | MS-1050 | OWA-1050 | OWA-1050 | OWA-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS GW-LVF3 | RNS-GW-LLB | RNS-GW LLB-210 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V008 | VO44 | VO43 | VO46 | VO45 | VO47 |
| Remarks | | Duplicate of RNS-GW-KLB | | | Duplicate of RNS GW LVF2 | | Trip Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Chloromethane | 10 | | UJ | UJ | UJ | UJ | UJ |
| Bromomethane | 10 | | | | | | |
| Vinyl Chloride | 10 | | UJ | UJ | UJ | UJ | UJ |
| Chloroethane | 10 | | | | | | |
| Methylene Chloride | 10 | | | | | | 2 J |
| Acetone | 10 | | UJ | UJ | UJ | UJ | UJ |
| Carbon Disulfide | 10 | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | |
| Total 1,2-Dichloroethene | 10 | | 10 U | | | | |
| Chloroform | 10 | | | | | | |
| 1,2-Dichloroethane | 10 | | | | | | |
| 2-Butanone | 10 | | 10 U | 10 U | 10 U | 10 U | 4 J |
| 1,1,1-Trichloroethane | 10 | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | |
| Bromodichloromethane | 10 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | |
| Trichloroethene | 10 | | 10 U | | | | |
| Dibromochloromethane | 10 | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | |
| Benzene | 10 | | 10 U | UJ | UJ | UJ | UJ |
| cis-1,3-Dichloropropene | 10 | UJ | | | | | |
| Bromoform | 10 | | | | | | |
| 2-Hexanone | 10 | | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | | |
| Tetrachloroethene | 10 | | | | | | |
| Toluene | 10 | | | UJ | | | |
| Chlorobenzene | 10 | | | UJ | | | |
| Ethylbenzene | 10 | | | UJ | | | |
| Styrene | 10 | | | UJ | | | |
| Total Xylenes | 10 | | | UJ | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/20/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/28/92 |
| Date of Sample Analysis | | 10/29/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Instrument Used for Analysis | | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW-E-LB | RNS GW-F-VF3 | RNS-GW-F-VF4 | RNS GW-FVF4-103 | RNS-GW-FVF6 | RNS GW-FLB |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V014 | V022 | V025 | VO27 | V026 | V028 | V032 | VO33 |
| Remarks | | Duplicate of RNS-GW-EVF3 | | | | | Field Blank | | |
| Units | | ug/L | ug/L | g/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | | | | | | | |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | | | | | 12 J | | |
| Acetone | 10 | | | | | | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | | | | |
| Chloroform | 10 | | | | | | | | |
| 1,2-Dichloroethane | 10 | | | | | | | | |
| 2-Butanone | 10 | | | | | | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | |
| Trichloroethene | 10 | | | | | | | | |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | | | | | | | | |
| cis-1,3-Dichloropropene | 10 | | UJ | UJ | UJ | UJ | UJ | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | | | | | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | | | | |
| Tetrachloroethene | 10 | | | | | | | | |
| Toluene | 10 | | | | | | | | |
| Chlorobenzene | 10 | | | | | | | | |
| Ethylbenzene | 10 | | | | | | | | |
| Styrene | 10 | | | | | | | | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1.0 | 1 | 1 | 1 | 1 | 1 |
| *Date of Sample Collection* | | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/22/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 10/30/92 | 10/30/92 | 10/30/92 | 10/31/92 | 10/31/92 | 10/31/92 | 10/31/92 | 10/31/92 |
| Instrument Used for Analysis | | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS GW-GUB | RNS-GW HS | RNS-GW-HUB | RNS-GW-HVF1 | RNS-GW-IS | RNS-GW II | RNS-IUB | RNS-GW-IUB-207 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V101 | VO30 | VO29 | VO31 | V001 | V002 | V003 | V004 |
| Remarks | | | | | | | | | Trip Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | 390 | | | | | | | |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | | | | | | | |
| Acetone | 10 | | | | | | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | 8000 | | | | | | | |
| Chloroform | 10 | | | | | | | | |
| 1,2-Dichloroethane | 10 | 210 | | | | | | | |
| 2-Butanone | 10 | | | | | | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | UJ | | | | | | | |
| Trichloroethene | 10 | 32 J | | | | | | | |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | 310 J | | | UJ | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | UJ | UJ | UJ | UJ |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | | | | | | | |
| 4-Methyl-2-Pentanone | 10 | UJ | | | | | | | |
| Tetrachloroethene | 10 | 200 U | | | | | | | |
| Toluene | 10 | | | | UJ | | | | |
| Chlorobenzene | 10 | 24 J | | | UJ | | | | |
| Ethylbenzene | 10 | | | | UJ | | | | |
| Styrene | 10 | | | | UJ | | | | |
| Total Xylenes | 10 | | | | UJ | | | | |
| Quantitation Limit Multiplier | | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 11/04/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/19/92 | 10/19/92 | 10/20/92 | 10/20/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 |
| Date of Sample Analysis | | 11/13/92 | 10/31/92 | 10/31/92 | 10/31/92 | 10/29/92 | 10/29/92 | 10/29/92 | 10/29/92 |
| Instrument Used for Analysis | | OWA-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | RNS-GW-RW1-215 | RNS-GW-RW1-107 | RNS-GW-AS | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-BS | RNS-GW-BSDL | RNS-GW-CS |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V107 | V108 | VO37 | VO36 | VO38 | V039 | V039D | V005 |
| Remarks | | Trip Blank | Field Blank | | | Duplicate of RNS-GW-AUB | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | UJ | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | | | | | 1200 J | 820 J | |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | | | 10 U | 10 U | 10 U | 500 U | |
| Acetone | 10 | | | | | 10 U | | UJ | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | 49 | 44 J | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | 11 | 10 U | | 4200 J | 8400 | |
| Chloroform | 10 | | | 10 U | | | 8 J | | |
| 1,2-Dichloroethane | 10 | | | 150 | 190 | 200 | 2800 J | 4600 | |
| 2-Butanone | 10 | | | 10 U | 10 U | 10 U | 10 U | 500 U | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | |
| Trichloroethene | 10 | | | 10 U | | | 1300 J | 1800 | |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | | | | 3 J | 3 J | 1200 J | 4200 J | |
| cis-1,3-Dichloropropene | 10 | | | | | | | | UJ |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | | | | | | UJ | |
| 4-Methyl-2-Pentanone | 10 | UJ | UJ | | | | | | |
| Tetrachloroethene | 10 | | | | | | 23 | | |
| Toluene | 10 | | | | | | 110 | 91 J | |
| Chlorobenzene | 10 | | | | | | 360 J | 400 J | |
| Ethylbenzene | 10 | | | | | | | | |
| Styrene | 10 | | | | | | | | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 50 | 1 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/19/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 11/05/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/21/92 |
| Date of Sample Analysis | | 11/14/92 | 11/14/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/29/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

VOLATILE ORGANIC ANALYSIS

| ERM Midwest Sample Number | RNS - | RNS-GW-CUB | RNS GW CLB | RNS-GW-DVF2 | RNS-GW-DVF3 | RNS-GW-DLB | RNS-GW-EVF1 | RNS GW-EVF2 | RNS-GW-EVF3 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V006 | V021 | V020 | V019 | V018 | V010 | V011 | V012 |
| Remarks | | | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | | | | | | | |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | | | | | | | |
| Acetone | 10 | | 20 U | | | | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | | | | |
| Chloroform | 10 | | 10 U | | | | | | |
| 1,2-Dichloroethane | 10 | | | | | | | | |
| 2-Butanone | 10 | | 10 U | | | | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | |
| Trichloroethene | 10 | | | | | | | | |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | | | | | | | | |
| cis-1,3-Dichloropropene | 10 | UJ | | | | | | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | 10 U | | | | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | | | | |
| Tetrachloroethene | 10 | | 1 J | | | | | | |
| Toluene | 10 | | | | | | | | |
| Chlorobenzene | 10 | | | | | | | | |
| Ethylbenzene | 10 | | | | | | | | |
| Styrene | 10 | | | | | | | | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/19/92 | 10/20/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date of Sample Analysis | | 10/29/92 | 10/30/92 | 10/30/92 | 10/30/92 | 10/30/92 | 10/30/92 | 10/30/92 | 10/30/92 |
| Instrument Used for Analysis | | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS-GW-D11DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-D13 | RNS-GW-D14 | RNS-GW-D19 | RNS-GW-D14-213 | RNS-GW-D15 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V093D | V090 | V090D | V094 | V078 | V079 | V080 | V086 |
| Remarks | | Dilution | | Dilution | | | Duplicate of RNS-GW-D14 | Trip Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | | | | | | | 15 J |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | 250 U | | | | | | |
| Acetone | 10 | | | | | | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | 26 J | | | | | | 17 J |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | 640 J | 2000 J | 1200 | | | | | 4000 J |
| Chloroform | 10 | | 66 J | | | | | | |
| 1,2-Dichloroethane | 10 | | | | | | | | 280 J |
| 2-Butanone | 10 | | | | | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | 3200 | 17,000 J | 13,000 | 10 U | | | | 110 J |
| 1,2-Dichloropropane | 10 | | UJ | UJ | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | |
| Trichloroethene | 10 | 3700 | 11,000 | 8500 | 10 U | | | | 2000 J |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | 1100 | 1900 | | | | | | 980 J |
| cis-1,3-Dichloropropene | 10 | | | | | | | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | | | | | | | |
| 4-Methyl-2-Pentanone | 10 | UJ | UJ | UJ | UJ | UJ | UJ | UJ | UJ |
| Tetrachloroethene | 10 | 9900 | 38,000 J | 27,000 | 10 U | | | | 1800 J |
| Toluene | 10 | | 750 | 580 J | | | | | 10 J |
| Chlorobenzene | 10 | | 480 | | | | | | 50 J |
| Ethylbenzene | 10 | | | | | | | | 5 J |
| Styrene | 10 | | | | | | | | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 100 | 25 | 500 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/02/92 | 11/02/92 | 11/02/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/04/92 |
| Date of Sample Analysis | | 11/13/92 | 11/12/92 | 11/12/92 | 11/12/92 | 11/11/92 | 11/11/92 | 11/11/92 | 11/12/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM Midwest Sample Number | RNS | RNS-GW-D15DL | RNS-GW-D16 | RNS-GW-D16-208 | RNS GW-D17 | RNS-GW-T1 | RNS-GW T2 | RNS GW T2DL | RNS-GW-RW1 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V086D | V013 | V015 | V083 | V098 | V099 | V099 | V106 |
| Remarks | | Dilution | | Trip Blank | | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | | | | | | | |
| Vinyl Chloride | 10 | | | | 7 J | 1700 | | | |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | 50 U | | | | | | | |
| Acetone | 10 | | | | | | | | |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | 1 J | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | 4400 | | | 320 J | 15,400 | 1600 J | | |
| Chloroform | 10 | | | | | | | | |
| 1,2-Dichloroethane | 10 | 210 J | | | 5 J | 1400 | 1000 J | | |
| 2-Butanone | 10 | | | | UJ | | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | 95 J | | | 15 | | 5300 | 5000 J | 9300 J |
| 1,2-Dichloropropane | 10 | UJ | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | UJ | UJ | UJ | |
| Trichloroethene | 10 | 1600 | | | 10 U | | 17 000 | 15,000 | 8400 J |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | |
| Benzene | 10 | 1000 | | | 10 J | 1100 | 4100 J | 3900 J | 4100 J |
| cis-1,3-Dichloropropene | 10 | | | | | | | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | | | | | | | | |
| 4-Methyl-2-Pentanone | 10 | UJ | | | UJ | UJ | UJ | UJ | UJ |
| Tetrachloroethene | 10 | 1200 | | | 10 U | | 81,000 J | 66,000 | 77,000 |
| Toluene | 10 | | | | | 110 J | 1100 J | 1100 J | |
| Chlorobenzene | 10 | 41 J | | | 2 J | 600 J | 270 J | | |
| Ethylbenzene | 10 | | | | | | UJ | | |
| Styrene | 10 | | | | | | UJ | | |
| Total Xylenes | 10 | | | | | | UJ | | |
| Quantitation Limit Multiplier | | 25 | 1 | 1 | 1 | 100 | 250 | 1000 | 1000 |
| Date of Sample Collection | | 11/03/92 | 10/21/92 | 10/21/92 | 11/03/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 10/22/92 | 10/22/92 | 11/04/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 11/12/92 | 10/30/92 | 10/30/92 | 11/12/92 | 11/13/92 | 11/13/92 | 11/13/92 | 11/14/92 |
| Instrument Used for Analysis | | OWA-1050 | MS-1050 | MS-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | RNS-GW-D2 | RNS-GW-D3 | RNS-GW-D18 | RNS GW-D3-212 | RNS-GW-D4 | RNS-GW D4-RE | RNS-GW-D5 | RNS-GW-D6 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V089 | V062 | V064 | V065 | V060 | V060 | V056 | V097 |
| Remarks | | | | Duplicate of RNS-GW-D-3 | Trip Blank | | Reanalysis | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | UJ | UJ | | |
| Bromomethane | 10 | | | UJ | UJ | UJ | UJ | | |
| Vinyl Chloride | 10 | | | | | UJ | UJ | | 110 J |
| Chloroethane | 10 | | | | | UJ | UJ | UJ | |
| Methylene Chloride | 10 | | | | | UJ | UJ | | |
| Acetone | 10 | | | | | UJ | UJ | 10 U | |
| Carbon Disulfide | 10 | | | | | UJ | UJ | | |
| 1,1-Dichloroethene | 10 | | | | | UJ | UJ | | |
| 1,1-Dichloroethane | 10 | | | | | UJ | UJ | | |
| Total 1,2-Dichloroethene | 10 | 6 J | 26 | 32 | | UJ | UJ | | 2400 |
| Chloroform | 10 | | | | | UJ | UJ | | 160 J |
| 1,2-Dichloroethane | 10 | | 20 | 27 | | UJ | UJ | | 1800 |
| 2-Butanone | 10 | | | 10 U | | 10 U | UJ | 10 U | 500 U |
| 1,1,1-Trichloroethane | 10 | | | | | UJ | UJ | | |
| Carbon Tetrachloride | 10 | | | | | UJ | UJ | | |
| Bromodichloromethane | 10 | | | | | UJ | UJ | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | UJ | UJ | | 500 U |
| 1,2-Dichloropropane | 10 | UJ | | | | UJ | UJ | | |
| trans-1,3-Dichloropropene | 10 | | | UJ | UJ | UJ | UJ | | UJ |
| Trichloroethene | 10 | 49 | 41 | 42 | | UJ | UJ | | 4800 |
| Dibromochloromethane | 10 | | | | | UJ | UJ | | |
| 1,1,2-Trichloroethane | 10 | | | | | UJ | UJ | | |
| Benzene | 10 | 12 | 39 | 42 | | UJ | UJ | | 1300 |
| cis-1,3-Dichloropropene | 10 | | | | | UJ | UJ | | |
| Bromoform | 10 | | | | | UJ | UJ | | |
| 2-Hexanone | 10 | | | | | UJ | UJ | UJ | |
| 4-Methyl-2-Pentanone | 10 | UJ | | | | UJ | UJ | | UJ |
| Tetrachloroethene | 10 | 110 | | 2 J | | UJ | UJ | | 500 U |
| Toluene | 10 | | | | | UJ | UJ | | 500 U |
| Chlorobenzene | 10 | 1 J | | 1 J | | UJ | UJ | | 170 J |
| Ethylbenzene | 10 | | | | | UJ | UJ | | |
| Styrene | 10 | | | | | UJ | UJ | | |
| Total Xylenes | 10 | | | | | UJ | UJ | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 50 |
| Date of Sample Collection | | 11/03/92 | 10/28/92 | 10/28/92 | 10/28/92 | 10/27/92 | 10/27/92 | 10/27/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 10/29/92 | 10/29/92 | 10/29/92 | 10/28/92 | 10/28/92 | 10/28/92 | 11/05/92 |
| Date of Sample Analysis | | 11/12/92 | 11/07/92 | 11/08/92 | 11/08/92 | 11/07/92 | 11/07/92 | 11/05/92 | 11/13/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | RNS-GW-D7 | RNS-GW-D7-DL | RNS-GW-D8 | RNS GW-D8-DL | RNS-GW-D9 | RNS GW-D10 | RNS-GW-D10-209 | RNS-GW-D11 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V067 | V067 | V074 | V074 | V070 | VO34 | VO35 | V093 |
| Remarks | | | Dilution | | | | | Trip Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | 8 J | | | | | UJ |
| Bromomethane | 10 | UJ | UJ | UJ | UJ | UJ | | | UJ |
| Vinyl Chloride | 10 | 45 | 22 | 710 J | 480 | | | | 2 J |
| Chloroethane | 10 | | | | | | | | UJ |
| Methylene Chloride | 10 | | | | | | | | 10 U |
| Acetone | 10 | | | UJ | UJ | | | | 10 U |
| Carbon Disulfide | 10 | | | | | | | | UJ |
| 1,1-Dichloroethene | 10 | 6 J | | 19 | 14 J | | | | 17 J |
| 1,1-Dichloroethane | 10 | | | | | | | | UJ |
| Total 1,2-Dichloroethene | 10 | 1940 J | 1500 | 4000 J | 5200 | | | | 1000 J |
| Chloroform | 10 | | | | | | | | 20 J |
| 1,2-Dichloroethane | 10 | 33 | | 140 | 130 | | | | UJ |
| 2-Butanone | 10 | 10 U | 100 U | UJ | 100 U | | | | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | | | | UJ |
| Carbon Tetrachloride | 10 | | | | | | | | UJ |
| Bromodichloromethane | 10 | | | | | | | | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | | 1600 J |
| 1,2-Dichloropropane | 10 | | | UJ | UJ | | | | UJ |
| trans-1,3-Dichloropropene | 10 | UJ | UJ | UJ | UJ | UJ | | | UJ |
| Trichloroethene | 10 | 160 J | 120 J | 35 | 26 J | | | | 2700 J |
| Dibromochloromethane | 10 | | | | | | | | UJ |
| 1,1,2-Trichloroethane | 10 | | | | | | | | UJ |
| Benzene | 10 | 12 J | UJ | 300 J | 270 | | | | 850 J |
| cis-1,3-Dichloropropene | 10 | | | | | | | | UJ |
| Bromoform | 10 | | | | | | | | UJ |
| 2-Hexanone | 10 | | | UJ | UJ | | | | UJ |
| 4-Methyl-2-Pentanone | 10 | | | UJ | UJ | | | | UJ |
| Tetrachloroethene | 10 | 60 | 41 J | 26 | 17 J | | | | 3900 J |
| Toluene | 10 | 1 J | 2 J | 10 | | | | | 150 J |
| Chlorobenzene | 10 | 7 J | UJ | 38 | 31 J | | | | 37 J |
| Ethylbenzene | 10 | | | | | | | | 5 J |
| Styrene | 10 | | | | | | | | 6 J |
| Total Xylenes | 10 | | | | | | | | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 10 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/28/92 | 10/28/92 | 11/02/92 | 11/02/92 | 10/28/92 | 10/22/92 | 10/22/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/29/92 | 10/29/92 | 11/03/92 | 11/03/92 | 10/29/92 | 10/23/92 | 10/23/92 | 11/04/92 |
| Date of Sample Analysis | | 11/08/92 | 11/08/92 | 11/09/92 | 11/09/92 | 11/08/92 | 10/31/92 | 10/31/92 | 11/12/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | MS-1050 | MS-1050 | OWA-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S14 | RNS-GW-S15 | RNS-GW-S16 | RNS GW S16 105 | RNS GW-S17 | RNS GW-S17-DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V076 | V076D | V066 | V081 | V071 | V072 | V073 | V073 |
| Remarks | | | Dilution | | | | Field Blank | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | 9 J | |
| Bromomethane | 10 | UJ | UJ | UJ | | UJ | UJ | UJ | UJ |
| Vinyl Chloride | 10 | | | | | 120 | | 930 J | 600 |
| Chloroethane | 10 | | | | | | | | |
| Methylene Chloride | 10 | | | | | | | | 100 U |
| Acetone | 10 | 530 J | 530 J | | | | 9 J | UJ | UJ |
| Carbon Disulfide | 10 | | | | 3 J | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | 18 | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | 1600 | 1500 | | | 44 | | 3800 J | 4600 |
| Chloroform | 10 | 77 J | 63 J | | | | | | |
| 1,2-Dichloroethane | 10 | 3500 J | 3300 | | | 9 J | | 92 J | 78 J |
| 2-Butanone | 10 | UJ | UJ | | UJ | | 2 J | UJ | 100 U |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | 3200 J | 2800 | | | | | | |
| 1,2-Dichloropropane | 10 | UJ | UJ | | | | | UJ | UJ |
| trans-1,3-Dichloropropene | 10 | UJ | UJ | UJ | | UJ | UJ | UJ | UJ |
| Trichloroethene | 10 | 6900 J | 6000 | | | | | 9 J | 6 J |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | 110 | 62 J | | | | | | |
| Benzene | 10 | 3100 J | 3100 | | | 10 U | | 300 J | 270 |
| cis-1,3-Dichloropropene | 10 | | | | | | | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | UJ | UJ | | | | | UJ | UJ |
| 4 Methyl-2-Pentanone | 10 | UJ | UJ | | UJ | | | UJ | UJ |
| Tetrachloroethene | 10 | 970 J | 890 | | | | | | |
| Toluene | 10 | 44 J | | | | | | 11 | |
| Chlorobenzene | 10 | 75 J | 69 J | | | | | 53 | 46 J |
| Ethylbenzene | 10 | | | | | | | | |
| Styrene | 10 | | | | | | | 1 JN | |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 10 | 50 | 1 | 1 | 1 | 1 | 1 | 10 |
| Date of Sample Collection | | 11/02/92 | 11/02/92 | 10/28/92 | 11/02/92 | 10/28/92 | 10/28/92 | 10/28/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/03/92 | 11/03/92 | 10/29/92 | 11/03/92 | 10/29/92 | 10/29/92 | 10/29/92 | 11/03/92 |
| Date of Sample Analysis | | 11/09/92 | 11/09/92 | 11/08/92 | 11/11/92 | 11/08/92 | 11/08/92 | 11/08/92 | 11/09/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS GW-S20 | RNS-GW-S20-DL | RNS-GW-S18 | RNS GW S22 | RNS-GW-S18 209 | RNS-GW-S19 | RNS-GW-D1 | RNS-GW D1 104 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V075 | V075 | V104 | V105 | V109 | V100 | VO40 | VO41 |
| Remarks | | Duplicate of RNS-GW-S17 | Duplicate of RNS GW-S17 | | Duplicate of RNS-GW-18 | Trip Blank | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | UJ | | | | 9 J | | UJ | UJ |
| Bromomethane | 10 | UJ | UJ | | | | | | |
| Vinyl Chloride | 10 | 990 J | 670 | | | | 320 | UJ | UJ |
| Chloroethane | 10 | UJ | | | | | | | |
| Methylene Chloride | 10 | UJ | | | | | | | 2 J |
| Acetone | 10 | UJ | UJ | | | 1 J | | UJ | UJ |
| Carbon Disulfide | 10 | UJ | | | | | | | |
| 1,1-Dichloroethene | 10 | 17 J | 12 J | | | | | | |
| 1,1-Dichloroethane | 10 | UJ | | | | | | | |
| Total 1,2-Dichloroethene | 10 | 4200 J | 5000 | | | | 3400 | 10 U | |
| Chloroform | 10 | UJ | | 700 J | 700 J | | | | |
| 1,2-Dichloroethane | 10 | 77 J | 83 J | 22,000 | 23,000 | | 160 | | |
| 2-Butanone | 10 | UJ | 100 U | | | | | 10 U | 4 J |
| 1,1,1-Trichloroethane | 10 | UJ | | | | | | | |
| Carbon Tetrachloride | 10 | UJ | | 570 J | | | | | |
| Bromodichloromethane | 10 | UJ | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | UJ | | 46,000 | 50,000 | | | | |
| 1,2-Dichloropropane | 10 | UJ | UJ | | | UJ | | | |
| trans-1,3-Dichloropropene | 10 | UJ | UJ | | | | UJ | | |
| Trichloroethene | 10 | 8 J | | 19,000 | 19000 | | | 10 U | |
| Dibromochloromethane | 10 | UJ | | | | | | | |
| 1,1,2-Trichloroethane | 10 | UJ | | | | | | | |
| Benzene | 10 | 290 J | 280 | 45,000 | 44,000 | | 320 J | 10 U | UJ |
| cis-1,3-Dichloropropene | 10 | UJ | | | | | | | |
| Bromoform | 10 | UJ | | 680 J | 590 J | | | | |
| 2-Hexanone | 10 | UJ | UJ | | | | | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | UJ | UJ | UJ | UJ | UJ | UJ | | |
| Tetrachloroethene | 10 | UJ | | 23,000 | 23,000 | 2 J | 100 U | | |
| Toluene | 10 | 10 J | 9 J | 7200 | 8100 | | 12 J | | |
| Chlorobenzene | 10 | 50 J | 45 J | 4200 J | 4300 J | | 27 J | | |
| Ethylbenzene | 10 | UJ | | | | | UJ | | |
| Styrene | 10 | 1 J | | | | | UJ | | |
| Total Xylenes | 10 | UJ | | | | | UJ | | |
| Quantitation Limit Multiplier | | 1 | 10 | 500 | 500 | 1 | 10 | 1 | 1 |
| Date of Sample Collection | | 11/02/92 | 11/02/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/04/92 | 10/28/92 | 10/28/92 |
| Date Sample Received by Laboratory | | 11/03/92 | 11/03/92 | 11/05/92 | 11/05/92 | 11/11/92 | 11/05/92 | 10/28/92 | 10/28/92 |
| Date of Sample Analysis | | 11/09/92 | 11/09/92 | 11/14/92 | 11/14/92 | 11/17/92 | 11/13/92 | 11/05/92 | 11/05/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | MS-1050 | MS-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S5 | RNS-GW-S6 | RNS-GW-S6DL | RNS-GW-S7 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V054 | V077 | V063 | V061 | V057 | V096 | V096 | V092 |
| Remarks | | | | | | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | | | | | |
| Bromomethane | 10 | | UJ | | | | | | |
| Vinyl Chloride | 10 | | | | | | 460 | 310 J | 5 J |
| Chloroethane | 10 | UJ | | | | UJ | | | |
| Methylene Chloride | 10 | | | | | | 100 U | | |
| Acetone | 10 | UJ | UJ | | | 10 U | | | 10 U |
| Carbon Disulfide | 10 | | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | 130 | | |
| 1,1-Dichloroethane | 10 | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | | 40,000 J | 64,000 | 140 |
| Chloroform | 10 | | | | | | 540 | 430 J | |
| 1,2-Dichloroethane | 10 | | 14 | | | | | | 3 J |
| 2-Butanone | 10 | 10 U | UJ | | | 10 U | | | |
| 1,1,1-Trichloroethane | 10 | | | | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | 10 U | | | | 1300 | 1000 J | |
| 1,2-Dichloropropane | 10 | | UJ | | | | | | |
| trans-1,3-Dichloropropene | 10 | | UJ | | | | | | |
| Trichloroethene | 10 | | 10 U | | | | 1500 | 1200 J | 70 |
| Dibromochloromethane | 10 | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | 98 J | | |
| Benzene | 10 | | | | | | 5700 J | 5900 | |
| cis-1,3-Dichloropropene | 10 | | | | | | | | |
| Bromoform | 10 | | | | | | | | |
| 2-Hexanone | 10 | UJ | UJ | | | UJ | | | |
| 4-Methyl-2-Pentanone | 10 | | UJ | | | | UJ | UJ | UJ |
| Tetrachloroethene | 10 | | | | | | 100 U | 2000 U | 85 |
| Toluene | 10 | | | | | | 1700 | 1500 J | |
| Chlorobenzene | 10 | | | | | | 1700 | 1400 J | 3 J |
| Ethylbenzene | 10 | | | | | | 980 | 650 J | 3 J |
| Styrene | 10 | | | | | | | | 1 J |
| Total Xylenes | 10 | | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 10 | 200 | 1 |
| Date of Sample Collection | | 10/27/92 | 11/02/92 | 10/28/92 | 10/27/92 | 10/27/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 11/03/92 | 10/29/92 | 10/28/92 | 10/28/92 | 11/05/92 | 11/05/92 | 11/04/92 |
| Date of Sample Analysis | | 11/05/92 | 11/09/92 | 11/07/92 | 11/07/92 | 11/05/92 | 11/12/92 | 11/12/92 | 11/12/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

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VOLATILE ORGANIC ANALYSIS

| ERM Midwest Sample Number | RNS | RNS GW-S7 106 | RNS GW-S8 | RNS-GW S8DL | RNS-GW S9 | RNS-GW-S10 | RNS GW-S11 | RNS-GW-S12 | RNS GW S12RF |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V095 | V088 | V088D | VO42 | V059 | V058 | V082 | V082 |
| Remarks | | Field Blank | | Dilution | | | | | Reanalysis |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Chloromethane | 10 | | | | UJ | | | UJ | UJ |
| Bromomethane | 10 | | | | | | | UJ | UJ |
| Vinyl Chloride | 10 | | 54 | 49 J | UJ | | | UJ | UJ |
| Chloroethane | 10 | | 4 J | | | | UJ | UJ | UJ |
| Methylene Chloride | 10 | | | | | | | UJ | UJ |
| Acetone | 10 | 3 J | 10 U | | 15 U | | UJ | 5000 U | 5000 U |
| Carbon Disulfide | 10 | | | | | | | UJ | UJ |
| 1 1-Dichloroethene | 10 | | | | | | | UJ | UJ |
| 1,1-Dichloroethane | 10 | | | | | | | UJ | UJ |
| Total 1,2-Dichloroethene | 10 | | 56 | 46 J | | 2 J | 36 | UJ | 1100 J |
| Chloroform | 10 | | | | | | | 530 J | UJ |
| 1,2-Dichloroethane | 10 | | 510 J | 470 | | | 2 J | 23,000 J | 22,000 J |
| 2-Butanone | 10 | | | | 10 U | | 10 U | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | | | UJ | UJ |
| Carbon Tetrachloride | 10 | | | | | | | UJ | UJ |
| Bromodichloromethane | 10 | | | | | | | UJ | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | | | 27,000 J | 27,000 J |
| 1,2-Dichloropropane | 10 | | UJ | UJ | | | | UJ | UJ |
| trans-1,3-Dichloropropene | 10 | | | | | | | UJ | UJ |
| Trichloroethene | 10 | 1 J | 6 J | 50 U | | 2 J | | 4500 J | 4500 J |
| Dibromochloromethane | 10 | | | | | | | UJ | UJ |
| 1,1,2-Trichloroethane | 10 | | | | | | | UJ | UJ |
| Benzene | 10 | | 230 J | 220 | UJ | | 7 J | 30,000 J | 28,000 J |
| cis-1,3-Dichloropropene | 10 | | | | | | | UJ | UJ |
| Bromoform | 10 | | | | | | | UJ | UJ |
| 2-Hexanone | 10 | | | | UJ | | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | UJ | UJ | | | | UJ | UJ |
| Tetrachloroethene | 10 | 10 | 10 U | 50 U | | | | 5300 J | 5000 J |
| Toluene | 10 | | 10 U | | | | | 1400 J | 1200 J |
| Chlorobenzene | 10 | | 14 J | 13 J | | | 4 J | 520 J | UJ |
| Ethylbenzene | 10 | | UJ | | | | | UJ | UJ |
| Styrene | 10 | | UJ | | | | | UJ | UJ |
| Total Xylenes | 10 | | UJ | | | | | UJ | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 5 | 1 | 1 | 1 | 500 | 500 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 10/26/92 | 10/27/92 | 10/27/92 | 11/02/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 10/28/92 | 10/28/92 | 10/28/92 | 11/04/92 | 11/04/92 |
| Date of Sample Analysis | | 11/12/92 | 11/12/92 | 11/12/92 | 11/05/92 | 11/07/92 | 11/05/92 | 11/12/92 | 11/12/92 |
| Instrument Used for Analysis | | OWA-1050 | OWA-1050 | OWA-1050 | MS-1050 | OWA-1050 | OWA-1050 | OWA-1050 | OWA-1050 |

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# ROUND 1

## TENTATIVELY IDENTIFIED COMPOUNDS
## VOLATILES

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-D18-208 | RNS-GW-C-S | [illegible]-W-CUB | RNS GW DVF2 | RNS GW DVF3 | RNS GW D18 | RNS GW DLB | RNS [illegible]VF1 |
| Laboratory Sample Number | V016 | V005 | V006 | V020 | V019 | V013 | V018 | V010 |
| Remarks | | | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | | |
| 3-METHYL-PENTANE (4 33) | | | 3 J | | | | | |
| C6H12 ISOMER (5.50) | | | 16 J | | | | | |
| 3-METHYL-PENTANE (4 20) | | | | | | | 13 J | |
| C6H12 ISOMER (5 325) | | | | | | | | |
| 3-METHYLPENTANE(4 22) | | | | | | | | |
| UNKNOWN (4.18) | | | | | | | | |
| UNKNOWN (3.55) | | | | | | | | |
| UNKNOWN (4 21) | | | | | | | | |
| UNKNOWN (5 27) | | | | | | | | |

| TENTATIVELY ENTIFIED COMPOUNDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM Midwest Sam, umber | RNS GW-E-VF3 | RNS-GW-E-VF2 | RNS-G F4 | RNS GW-E-VF6 | RNS-GW E-VFB-103 | RNS-GW-I I | RNS GW I S | GW I UB |
| Laboratory Sample Number | V012 | V011 | V022 | V014 | V028 | V002 | V001 | V003 |
| Remarks | | | | Duplicate of RNS-GW-E-VF3 | Field Blank | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | | |
| 3-METHYL-PENTANE (4 33) | | | | | | | | |
| C6H12 ISOMER (5 50) | | | | | | | | |
| 3-METHYL-PENTANE (4 20) | | | | | | | | |
| C6H12 ISOMER (5 325) | | | | | | | | |
| 3-METHYLPENTANE(4.22) | | | | | | | | |
| UNKNOWN (4 18) | | | | | | | | |
| UNKNOWN (3 55) | | | | | | | | |
| UNKNOWN (4 21) | | | | | | | | |
| UNKNOWN (5 27) | | | | | | | | |

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-IL-B | RNS-GW-IUB-207 | RNS-GW-K-LB | RNS-GW-K-VF2 | RNS-GW-K-VF3 | RNS-GW-K-VF6 | RNS-GW-C-LB |
| Laboratory Sample Number | V009 | V004 | V007 | V016 | V017 | V008 | V021 |
| Remarks | | Trip Blank | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | |
| 3-METHYL-PENTANE (4.33) | | | | | | | |
| C6H12 ISOMER (5.50) | | | | | | | |
| 3-METHYL-PENTANE (4.20) | | | 18 J | | | | |
| C6H12 ISOMER (5.325) | | | 5 J | | | | |
| 3-METHYLPENTANE(4.22) | | | | | 6 J | | |
| UNKNOWN (4.18) | | | | | | 6 J | |
| UNKNOWN (3.55) | | | | | | | 214 J |
| UNKNOWN (4.21) | | | | | | | 2528 J |
| UNKNOWN (5.27) | | | | | | | 668 J |

| VOLATILE OF[illegible]NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-MW Sa[illegible] Number<br>Laboratory Sample Number | RNS-GW-E-LB<br>V025 | RNS-GW-F-VF4<br>VO26 | [illegible]-GW-F-VF3<br>V027 | RNS-GW-H-UB<br>V029 | RNS-GW-HS<br>V030 | RNS-GW-H-VF1<br>V031 | RNS-[illegible]W-FVF6<br>V032 |
| Remarks | | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | |
| UNKNOWN HYDROCARBONS (3 58) | | | 21 J | | | | 92 J |
| UNKNOWN (4.22) | | | 350 J | | | | |
| 3-METHYLPENTANE (4 20) | | | | | | | 120 J |
| UNKNOWN (5 325) | | | 62 J | | | | 230 J |
| 3-METHYLPENTANE+HYDROCARBON (4.22) | | | | | | | |
| UNKNOWN HYDROCARBON (4 18) | | | | | | | |
| UNKNOWN HYDROCARBON, ALKENE (3 55) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (4 21) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (5 27) | | | | | | | |
| FLOUROTRIMETHYLSILANE (1 12) | | | | | | | |
| C6-HYDROCARBON (5.27) | | | | | | | |

| VOLATILE OP NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-MW San., Number | RNS-GW-FLB | RNS-GW-D10 | K -GW-D10-209 | RNS-GW-AUB | RNS-GW-AS | RNS-GW-AVF1 | RN -GW-BS |
| Laboratory Sample Number | V033 | V034 | V035 | V036 | V037 | V038 | V039 |
| Remarks | | | Trip Blank | | | Duplicate of RNS-GW-AUB | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | |
| UNKNOWN HYDROCARBONS (3.58) | 29 J | | | | | | |
| UNKNOWN (4.22) | | | | | | | |
| 3-METHYLPENTANE (4.20) | 500 J | | | | | | |
| UNKNOWN (5.325) | 73 J | | | | | | |
| 3-METHYLPENTANE+HYDROCARBON (4.22) | | | | | | | |
| UNKNOWN HYDROCARBON (4.18) | | | | | | | |
| UNKNOWN HYDROCARBON, ALKENE (3.55) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (4.21) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (5.27) | | | | | | | |
| FLOUROTRIMETHYLSILANE (1.12) | 11 R | | | | | | |
| C6-HYDROCARBON (5.27) | | | | | | | |

| VOLATILE OR[illegible]NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-MW Sa[illegible] Number | RNS-GW-BSDL | RNS-GW-D1 | R[illegible]-GW-D1-104 | RNS-GW-S9 | RNS-GW-L-VF2 | RNS-GW-L-VF1 | RNS-[illegible]V-L-LB |
| Laboratory Sample Number | V039 | V040 | VO41 | V042 | V043 | V044 | V045 |
| Remarks | Dilution | | Field Blank | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| [illegible]OLATILE TICS | | | | | | | |
| UNKNOWN HYDROCARBONS (3 58) | | | | | | | |
| UNKNOWN (4 22) | | | | | | | |
| 3-METHYLPENTANE (4 20) | | | | | | | |
| UNKNOWN (5.325) | | | | | | | |
| 3-METHYLPENTANE+HYDROCARBON (4 22) | | | | | | | |
| UNKNOWN HYDROCARBON (4.18) | | | | | | | |
| UNKNOWN HYDROCARBON, ALKENE (3.55) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (4 21) | | | | | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (5 27) | | | | | | | |
| FLOUROTRIMETHYLSILANE (1.12) | | | | | | | |
| C6-HYDROCARBON (5 27) | | | | | | | |

| VOLATILE OR NIC ANALYSIS | | | |
|---|---|---|---|
| ERM-MW Sa. Number | RNS-GW-L-VF3 | RNS-GW-L-LB210 | NS-GW-J-LB |
| Laboratory Sample Number | V046 | V047 | V048 |
| Remarks | Duplicate of RNS-GW-L-VF2 | Trip Blank | |
| Units | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | |
| UNKNOWN HYDROCARBONS (3.58) | | | |
| UNKNOWN (4 22) | | | |
| 3-METHYLPENTANE (4 20) | | | 80 J |
| UNKNOWN (5 325) | | | |
| 3-METHYLPENTANE+HYDROCARBON (4.22) | | | |
| UNKNOWN HYDROCARBON (4 18) | | | |
| UNKNOWN HYDROCARBON, ALKENE (3.55) | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (4.21) | | | |
| UNKNOWN HYDROCARBON,N-AROMATIC (5.27) | | | |
| FLOUROTRIMETHYLSILANE (1.12) | | | |
| C6-HYDROCARBON (5.27) | | | 13 J |

| VOLATILE OR' NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam, umber<br>Laboratory Sample Number | RNS GW-J VF2<br>V051 | RNS-GW-J-VF3<br>V052 | S GW-J-VF4<br>V053 | RNS-GW-S 1<br>V054 | RNS GW J VF4 211<br>V055 | RNS GW D5<br>V056 | R / S6<br>V057 |
| Remarks | | | | | Trip Blank | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | |
| UNKNOWN MIXTURE (1 75) | | | | 6 J | | | |
| UNKNOWN ALKANE (3 58) | | | | | | 61 J | |
| UNKNOWN MIXED ALIPHATIC HYDR (4 23) | | | | | | 870 J | |
| UNKNOWN C6 ALIPHATIC HYDROCARBON (5 33) | | | | | | 200 J | |
| UNKNOWN ALIPHATIC (1 48) | | | | | | | |
| UNKNOWN ( 77) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC (11 65) | | | | | | | |
| UNKNOWN (11 73) | | | | | | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam, umber<br>Laboratory Sample Number | RNS-GW-S11<br>V058 | RNS-GW-S10<br>V059 | NS-GW-D4<br>V060 | RNS-GW-D4-RE<br>V060 | RNS-GW-S4<br>V061 | RNS-GW-D-3<br>V062 | RN GW-S-3<br>V063 |
| Remarks | | | | Reanalysis | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | | | |
| UNKNOWN MIXTURE (1.75) | | | | | | | |
| UNKNOWN ALKANE (3.58) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC HYDR (4.23) | | | | | | | |
| UNKNOWN C6 ALIPHATIC HYDROCARBON (5.33) | | | | | | | |
| UNKNOWN ALIPHATIC (1.48) | | 8 R | | 7 R | 5 R | 5 R | |
| UNKNOWN (.77) | | | | 70 J | | | |
| UNKNOWN MIXED ALIPHATIC (11.65) | | | | | | | |
| UNKNOWN (11.73) | | | | | | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sam, .umber<br>Laboratory Sample Number | RNS GW D-18<br>V064 | RNS-GW-D-3-212<br>V065 | .NS-GW-S14<br>V066 | RNS-GW-D7<br>V067 | RNS GW D7 DL<br>V067 | RNS-GW D9<br>V070 | RN GW S16<br>V071 |
| Remarks | Duplicate of RNS-GW-D-3 | Trip Blank | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | | | Dilution | | |
| UNKNOWN MIXTURE (1 75) | | | | | | | |
| UNKNOWN ALKANE (3 58) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC HYDR (4 23) | | | | | | 16 J | |
| UNKNOWN C6 ALIPHATIC HYDROCARBON (5 33) | | | | | | | |
| UNKNOWN ALIPHATIC (1 48) | | 7 J | 6 R | 6 R | 70 R | 7 R | 5 R |
| UNKNOWN (.77) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC (11 65) | | | 7 J | | | | 7 J |
| UNKNOWN (11 73) | | | | | 60 J | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam, .umber<br>Laboratory Sample Number | RNS-GW-S16-105<br>V072 | RNS-GW-S17<br>V073 | .S-GW-S17-DL<br>V073 | RNS-GW-D8<br>V074 | RNS-GW-D8-DL<br>V074 | RNS-GW-S20<br>V076 | RNS-GW-S20-DL<br>V076 |
| Remarks | Field Blank | | | | Duplicate of RNS-GW-S17 | Duplicate of RNS-GW-S17 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | Dilution | | Dilution | | Dilution |
| UNKNOWN MIXTURE (1.75) | | | | | | | |
| UNKNOWN ALKANE (3.58) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC HYDR (4.23) | | | | | | | |
| UNKNOWN C6 ALIPHATIC HYDROCARBON (5.33) | | | | | | | |
| UNKNOWN ALIPHATIC (1.48) | 6 J | 6 R | 60 R | | 60 R | | 70 R |
| UNKNOWN ( 77) | | | | | | | |
| UNKNOWN MIXED ALIPHATIC (11.65) | | | | | | | |
| UNKNOWN (11.73) | | | | | | | |

| VOLATILE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number<br>Laboratory Sample Number | RNS-GW-S13<br>V076 | RNS-GW-S13DL<br>V076 | RNS-GW-S2<br>V077 | RNS-GW-D14<br>V078 | RNS-GW-D19<br>V079 | RNS-GW-D14 213<br>V080 | RNS-GW-S15<br>V081 | RNS-GW-D17<br>V083 | RNS-GW-D16<br>V088 |
| Remarks | | | | | Duplicate of RNS-GW-D-14 | Trip Blank | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | Dilution | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (4.20) | | | | 7 J | 37 J | | | | |
| UNKNOWN SILANE - COLUMN BLEED (1 13) | | | | | 7 R | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (5.28) | | | | | 7 J | | | | |
| UNKNOWN BENZOYL (1.38) | | | | | | | | 5 J | |
| UNKNOWN FLUORINATED AROMATIC (4 40) | | | | | | | | | |
| UNKNOWN ALKYLBENZENE C8H10 (14 53) | | | | | | | | | |
| HYDROCHLORIC ACID (1 38) | | | | | | | | | |

| VOLATILE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number<br>Laboratory Sample Number | RNS-GW-D16DL<br>V086 | RNS-GW-D17-214<br>V087 | RNS-GW-S8<br>V088 | RNS-GW-S8DL<br>V088 | RNS-GW-D2<br>V089 | RNS-GW-D12<br>V090 | RNS-GW-D12DL<br>V090 | RNS-GW-S21<br>V091 | RNS-GW-S21DL<br>V091 |
| Remarks | | Trip Blank | | | | | | Duplicate of RNS-GW-D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | Dilution | | | Dilution | | | Dilution | | Dilution |
| UNKNOWN ALIPHATIC HYDROCARB (4.20) | | | | | | | | | |
| UNKNOWN SILANE - COLUMN BLEED (1.13) | | | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (5.28) | | | | | | | | | |
| UNKNOWN BENZOYL (1.38) | | | | | | | | | |
| UNKNOWN FLUORINATED AROMATIC (4.40) | | | | | | | | | |
| UNKNOWN ALKYLBENZENE C8H10 (14.53) | | | | | | | | | |
| HYDROCHLORIC ACID (1.38) | | | | | | | | | |

| VOLATILE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM Midwest Sample Number<br>Laboratory Sample Number | RNS-GW-S7<br>V092 | RNS-GW-D11<br>V093 | RNS-GW-D11DL<br>V083 | RNS-GW-D13<br>V094 | RNS-GW-S7-108<br>V095 | RNS-GW-D6<br>V097 |
| Remarks | | | | | Field Blank | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS | | | Dilution | | | |
| UNKNOWN ALIPHATIC HYDROCARB (4.20) | | | | 19 J | | |
| UNKNOWN SILANE - COLUMN BLEED (1 13) | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (5.28) | | | | 6 J | | |
| UNKNOWN BENZOYL (1.38) | | | | | | |
| UNKNOWN FLUORINATED AROMATIC (4.40) | | 4 J | | | | |
| UNKNOWN ALKYLBENZENE C8H10 (14.53) | | 7 J | | | | |
| HYDROCHLORIC ACID (1 38) | | | | 25 R | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample Number<br>Laboratory Sample Number | RNS-GW-GUB<br>V101 | RNS-GW-RW1<br>V106 | RNS-GW-RW[illegible]<br>V108 | RNS-GW-RW1-216<br>V107 | RNS-GW-S12<br>V082 | RNS-GW-S12-RE<br>V082 | RNS-GW-S18<br>V104 | [illegible]S-GW-S18-209<br>V109 |
| Remarks | | | | | | Reextraction | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS<br>UNKNOWN ALIPHATIC HYDROCARB (7 48) | | | | | | 2500 J | | |
| THIOBIS-METHANE (2 40) | | | | | | | | |

| VOLATILE OF NIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample Number<br>Laboratory Sample Number | RNS GW-S19<br>V100 | RNS-GW-S22<br>V105 | RN[illegible] S6<br>V096 | RNS GW-S6 DL<br>V096 | RNS-GW-T1<br>V098 | RNS-GW T2<br>V099 | RNS GW-T2DL<br>V099 |
| Remarks | | Duplicate of RNS-GW-S18 | | Dilution | | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE TICS<br>UNKNOWN ALIPHATIC HYDROCARB (7.48) | | | | | | | |
| THIOBIS-METHANE (2 40) | | | 360 | | | | |

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Semivolatile Compounds

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-S1 | GW-S2 | GW-S2RE | GW-S3 | GW-S4 | GW-S6 | GW-S6DL |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S054 | S077 | S077RE | S063 | S061 | S096RE | S096D |
| Remarks | | | | Re-extraction | | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | |
| Phenol | 10 | 2 J | 10 U | 10 J | 4 J | | 240 J | 22 J |
| bis(2-Chloroethyl)ether | 10 | | UJ | R | | | R | R |
| 2-Chlorophenol | 10 | | | R | | | 18 J | R |
| 1,3-Dichlorobenzene | 10 | | UJ | R | | | R | R |
| 1,4-Dichlorobenzene | 10 | | UJ | R | | | 38 J | R |
| 1,2-Dichlorobenzene | 10 | | UJ | R | | | 1100 J | 670 J |
| 2-Methylphenol | 10 | | | R | | | 25 J | R |
| 2,2-Oxybis(1-Chloropropane) | 10 | | UJ | R | | | R | R |
| 4-Methylphenol | 10 | | | R | | | 42 J | R |
| N-Nitroso-di-n-Propylamine | 10 | | UJ | R | | | R | R |
| Hexachloroethane | 10 | | UJ | R | | | R | R |
| Nitrobenzene | 10 | | UJ | R | | | R | R |
| Isophorone | 10 | | UJ | R | | | R | R |
| 2-Nitrophenol | 10 | | | R | | | R | R |
| 2,4-Dimethylphenol | 10 | | | 1 J | | | R | R |
| bis(2-Chloroethoxy)methane | 10 | | UJ | R | | | R | R |
| 2,4-Dichlorophenol | 10 | | | R | | | 5 J | R |
| 1,2,4-Trichlorobenzene | 10 | | UJ | R | | | R | R |
| Naphthalene | 10 | | UJ | R | | | 7 J | R |
| 4-Chloroaniline | 10 | | UJ | R | | | R | R |
| Hexachlorobutadiene | 10 | | UJ | R | | | R | R |
| 4-Chloro-3-Methylphenol | 10 | | | R | | | R | R |
| 2-Methylnaphthalene | 10 | | UJ | R | | | R | R |
| Hexachlorocyclopentadiene | 10 | | UJ | R | | | R | R |
| 2,4,6-Trichlorophenol | 10 | | | R | | | R | R |
| 2,4,5-Trichlorophenol | 25 | | | R | | | R | R |
| 2-Chloronaphthalene | 10 | | UJ | R | | | R | R |
| 2-Nitroaniline | 25 | | UJ | R | | | 15 J | R |
| Dimethylphthalate | 10 | | UJ | R | | | R | R |
| Acenaphthylene | 10 | | UJ | R | | | R | R |
| 3-Nitroaniline | 25 | | UJ | R | | | R | R |
| Acenaphthene | 10 | | UJ | R | | | R | R |
| 2,4-Dinitrophenol | 25 | | [illegible] | R | UJ | | R | R |
| 4-Nitrophenol | 25 | | | R | | | R | R |
| Dibenzofuran | 10 | | UJ | R | | | R | R |
| 2,4-Dinitrotoluene | 10 | | UJ | R | | | R | R |
| 2,6-Dinitrotoluene | 10 | | UJ | R | | | R | R |
| Diethylphthalate | 10 | | UJ | R | | | R | R |
| 4-Chlorophenylphenylether | 10 | | UJ | R | | | R | R |
| Fluorene | 10 | | UJ | R | | | R | R |
| 4-Nitroaniline | 25 | | UJ | R | | | R | R |
| 4,6-Dinitro-2-Methylphenol | 25 | | UJ | R | | | R | R |
| N-Nitrosodiphenylamine | 10 | | UJ | R | | | R | R |
| 4-Bromophenylphenylether | 10 | | UJ | R | | | R | R |
| Hexachlorobenzene | 10 | | UJ | R | | | R | R |
| Pentachlorophenol | 25 | | | R | | | R | R |
| Phenanthrene | 10 | | UJ | R | | | R | R |
| Anthracene | 10 | | UJ | R | | | R | R |
| Carbazole | 10 | | UJ | R | | | R | R |
| Di-n-Butylphthalate | 10 | | UJ | R | 10 U | | R | R |
| Fluoranthene | 10 | | UJ | R | | | R | R |
| Pyrene | 10 | | UJ | R | | | R | R |
| Butylbenzylphthalate | 10 | | UJ | R | | | R | R |
| 3,3'-Dichlorobenzidine | 10 | | UJ | R | UJ | | R | R |
| Benzo(a)anthracene | 10 | | UJ | R | | | R | R |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | R |
| Chrysene | 10 | | UJ | R | | | R | R |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-S1 | GW-S2 | GW-S2RE | GW-S3 | GW-S4 | GW-S6 | GW-S6DL |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S054 | S077 | S077RE | S063 | S061 | S096RE | S096D |
| Remarks | | | | Re-extraction | | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | UJ | R | | | R | R |
| Benzo(b)fluoranthene | 10 | | UJ | R | | | R | R |
| Benzo(k)fluoranthene | 10 | | UJ | R | | | R | R |
| Benzo(a)pyrene | 10 | | UJ | R | | | R | R |
| Indeno(1,2,3-cd)pyrene | 10 | | UJ | R | | | R | R |
| Dibenz(a,h)anthracene | 10 | | UJ | R | | | R | R |
| Benzo(g,h,i)perylene | 10 | | UJ | R | | | R | R |
| 3,4-Dichloronitrobenzene | 10 | | UJ | R | | | R | R |
| Diphenylsulfone | 50 | | UJ | R | | | 880 J | 260 J |
| Quantitation Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1 00 | 20.0 |
| Date of Sample Collection | | 10/27/92 | 11/02/92 | 11/02/92 | 10/28/92 | 10/27/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Lab | | 10/28/92 | 11/03/92 | 11/03/92 | 10/29/92 | 10/28/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 10/30/92 | 11/05/92 | 11/17/92 | 10/30/92 | 10/30/92 | 11/23/92 | 11/23/92 |
| Date of Sample Analysis | | 11/03/92 | 11/11/92 | 12/16/92 | 11/10/92 | 11/10/92 | 12/02/92 | 12/03/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-S7 | GW-S7DL | GW-S7-106 | GW-S8 | GW-S8DL | GW-S9 | GW-S10 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S092 | S092D | S095 | S088 | S088D | S042 | S059 |
| Remarks | | | | Field Blank | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | |
| Phenol | 10 | 10 U | | | 10 U | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | 1 J | | | 4 J | | | |
| 1,2-Dichlorobenzene | 10 | 66 | 73 | 2 J | 380 J | 950 | | |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | UJ | UJ | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | |
| 2,4-Dichlorophenol | 10 | 1 J | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | UJ | UJ | UJ | UJ | UJ | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | 5 R | | | 28 R | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | | | | |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | | |
| 4-Nitrophenol | 25 | | UJ | UJ | | | | |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | UJ | | | UJ | UJ | | |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | | UJ | | | |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | | 10 U | | 12 U | 10 U |
| Chrysene | 10 | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-S7 | GW-S7DL | GW-S7-106 | GW-S8 | GW-S8DL | GW-S9 | GW-S |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S092 | S092D | S095 | S088 | S088D | S042 | S059 |
| Remarks | | | | Field Blank | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | UJ | | |
| Benzo(b)fluoranthene | 10 | | | | | UJ | | |
| Benzo(k)fluoranthene | 10 | | | | | UJ | | |
| Benzo(a)pyrene | 10 | | | | | UJ | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | UJ | | |
| Dibenz(a,h)anthracene | 10 | | | | | UJ | | |
| Benzo(g,h,i)perylene | 10 | | | | | UJ | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | |
| Diphenylsulfone | 50 | 160 J | 190 | | 4 J | | | |
| Quantitation Limit Multiplier | | 1.0 | 4.0 | 1.0 | 1.0 | 20 | 1.00 | 1.0 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 10/26/92 | 10/27/92 |
| Date Sample Received by Lab | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 10/28/92 | 10/28/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 11/09/92 | 11/05/92 | 11/05/92 | 10/30/92 | 10/30/92 |
| Date of Sample Analysis | | 11/13/92 | 11/17/92 | 11/17/92 | 11/12/92 | 11/13/92 | 11/06/92 | 11/10/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-S11 | GW-S11-DL | GW-S12 | GW-S12RE | GW-S13 | GW-S13DL | GW-S14 | GW-S15 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S058 | S058D | S082 | S082 | S076 | S076D | S066 | S081 |
| Remarks | | | | | Reanalysis | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | Dilution | | | | | | |
| Phenol | 10 | | | R | R | 10 | 9 J | | |
| bis(2-Chloroethyl)ether | 10 | | | R | R | | | | |
| 2-Chlorophenol | 10 | | | R | R | 1 R | | | |
| 1,3-Dichlorobenzene | 10 | | | R | R | 5 J | | | |
| 1,4-Dichlorobenzene | 10 | | | R | R | 5 J | | | |
| 1,2-Dichlorobenzene | 10 | 2 J | | R | R | 360 J | 740 | 3 J | 14 U |
| 2-Methylphenol | 10 | | | 44 J | 48 J | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | R | R | | | | |
| 4-Methylphenol | 10 | | | R | R | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | R | R | | | | |
| Hexachloroethane | 10 | | | R | R | | | | |
| Nitrobenzene | 10 | | | 78 J | R | | | | |
| Isophorone | 10 | | | R | R | | | | |
| 2-Nitrophenol | 10 | | | R | R | | | | |
| 2,4-Dimethylphenol | 10 | | | 2 J | R | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | R | R | | | | |
| 2,4-Dichlorophenol | 10 | | | 87 J | R | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | R | R | | | | |
| Naphthalene | 10 | | | R | R | | | | |
| 4-Chloroaniline | 10 | | | R | R | | | | |
| Hexachlorobutadiene | 10 | | | R | R | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | R | R | UJ | | | |
| 2-Methylnaphthalene | 10 | | | R | R | | | | |
| Hexachlorocyclopentadiene | 10 | | | R | R | | UJ | | |
| 2,4,6-Trichlorophenol | 10 | | | R | R | | | | |
| 2,4,5-Trichlorophenol | 25 | | | R | R | | | | |
| 2-Chloronaphthalene | 10 | | | R | R | | | | |
| 2-Nitroaniline | 25 | | | R | 7 J | | | | |
| Dimethylphthalate | 10 | | | R | R | | | | |
| Acenaphthylene | 10 | | | R | R | | | | |
| 3-Nitroaniline | 25 | | | R | 14 J | | | | |
| Acenaphthene | 10 | | | R | R | | | | |
| 2,4-Dinitrophenol | 25 | | [illegible] | R | R | UJ | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | | | R | R | | | | |
| Dibenzofuran | 10 | | | R | R | | | | |
| 2,4-Dinitrotoluene | 10 | | | R | R | | | | |
| 2,6-Dinitrotoluene | 10 | | | R | 14 J | | | | |
| Diethylphthalate | 10 | | | R | R | | | | |
| 4-Chlorophenylphenylether | 10 | | | R | R | | | | |
| Fluorene | 10 | | | R | R | | | | |
| 4-Nitroaniline | 25 | | | R | R | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | R | R | UJ | UJ | | UJ |
| N-Nitrosodiphenylamine | 10 | | | R | R | | | | |
| 4-Bromophenylphenylether | 10 | | | R | R | | | | |
| Hexachlorobenzene | 10 | | | R | R | | | | |
| Pentachlorophenol | 25 | | | R | R | | | | |
| Phenanthrene | 10 | | | R | R | | | | |
| Anthracene | 10 | | | R | R | | | | |
| Carbazole | 10 | | | R | R | 1 J | | | |
| Di-n-Butylphthalate | 10 | | | R | R | | | | |
| Fluoranthene | 10 | | | R | R | | | | |
| Pyrene | 10 | | | R | R | | | | |
| Butylbenzylphthalate | 10 | | | R | R | | | | |
| 3,3'-Dichlorobenzidine | 10 | | UJ | R | R | | UJ | UJ | |
| Benzo(a)anthracene | 10 | | | R | R | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 10 U | 10 U | 10 U | | 10 U | |
| Chrysene | 10 | | | R | R | | | | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-S11 | GW-S11-DL | GW-S12 | GW-S12RE | GW-S13 | GW-S13DL | GW-S14 | GW-S |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory Sample Number* | | S058 | S058D | S082 | S082 | S076 | S076D | S066 | S08 |
| Remarks | | | | | Reanalysis | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl Di-n-Octylphthalate | 10 | | | R | R | | | | |
| Benzo(b)fluoranthene | 10 | | | R | R | | | | |
| Benzo(k)fluoranthene | 10 | | | R | R | | | | |
| Benzo(a)pyrene | 10 | | | R | R | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | R | R | | | | |
| Dibenz(a,h)anthracene | 10 | | | R | R | | | | |
| Benzo(g,h,i)perylene | 10 | | | R | R | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | R | R | | | | |
| Diphenylsulfone | 50 | 470 J | 1000 | 3 J | R | 250 J | 350 | 4 J | 2 J |
| Quantitation Limit Multiplier | | 1.0 | 40 | 1.00 | 1.00 | 1.0 | 10 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 11/02/92 | 11/02/92 | 11/02/92 | 11/02/92 | 10/28/92 | 11/02/92 |
| Date Sample Received by Lab | | 10/28/92 | 10/28/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 10/29/92 | 11/03/92 |
| Date Sample Extracted | | 10/30/92 | 10/30/92 | 11/05/92 | 11/17/92 | 11/05/92 | 11/05/92 | 11/03/92 | 11/05/92 |
| Date of Sample Analysis | | 11/10/92 | 11/11/92 | 11/12/92 | 12/17/92 | 11/11/92 | 11/13/92 | 11/10/92 | 11/12/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-S16 | GW-S16-105 | GW-S17 | GW-S17-DL | GW-S20 | GW-S20-DL | GW-S18 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S071 | S072 | S073 | S073D | S075 | S075D | S104 |
| Remarks | | | Field Blank | | | Dup. of RNS-GW-S1 | Dup. of RNS-GW-S1 | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | Dilution | | Dilution | |
| Phenol | 10 | 2 J | | 2 J | | 2 J | | R |
| bis(2-Chloroethyl)ether | 10 | | | | | | | R |
| 2-Chlorophenol | 10 | | | | | | | R |
| 1,3-Dichlorobenzene | 10 | | | | | | | R |
| 1,4-Dichlorobenzene | 10 | | | 6 J | | 9 J | | R |
| 1,2-Dichlorobenzene | 10 | | | 520 J | 1400 | 550 J | 1500 | R |
| 2-Methylphenol | 10 | | | | | | | R |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | | R |
| 4-Methylphenol | 10 | | | | | | | R |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | R |
| Hexachloroethane | 10 | | | | | | | R |
| Nitrobenzene | 10 | | | | | | | R |
| Isophorone | 10 | | | | | | | R |
| 2-Nitrophenol | 10 | | | | | | | R |
| 2,4-Dimethylphenol | 10 | | | | | | | R |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | R |
| 2,4-Dichlorophenol | 10 | | | | | | | R |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | R |
| Naphthalene | 10 | | | | | | | R |
| 4-Chloroaniline | 10 | | | | | | | R |
| Hexachlorobutadiene | 10 | | | | | | | R |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | R |
| 2-Methylnaphthalene | 10 | | | | | | | R |
| Hexachlorocyclopentadiene | 10 | | | | UJ | | UJ | R |
| 2,4,6-Trichlorophenol | 10 | | | | | | | R |
| 2,4,5-Trichlorophenol | 25 | | | | | | | R |
| 2-Chloronaphthalene | 10 | | | | | | | R |
| 2-Nitroaniline | 25 | | | | | | | R |
| Dimethylphthalate | 10 | | | | | | | R |
| Acenaphthylene | 10 | | | | | | | R |
| 3-Nitroaniline | 25 | | | | | | | R |
| Acenaphthene | 10 | | | | | | | R |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ | R |
| 4-Nitrophenol | 25 | | | | | | | R |
| Dibenzofuran | 10 | | | | | | | R |
| 2,4-Dinitrotoluene | 10 | | | | | | | R |
| 2,6-Dinitrotoluene | 10 | | | | | | | R |
| Diethylphthalate | 10 | | | | | | | R |
| 4-Chlorophenylphenylether | 10 | | | | | | | R |
| Fluorene | 10 | | | | | | | R |
| 4-Nitroaniline | 25 | | | | | | | R |
| 4,6-Dinitro-2-Methylphenol | 25 | | | UJ | UJ | UJ | UJ | R |
| N-Nitrosodiphenylamine | 10 | | | | | | | R |
| 4-Bromophenylphenylether | 10 | | | | | | | R |
| Hexachlorobenzene | 10 | | | | | | | R |
| Pentachlorophenol | 25 | | | | | | | R |
| Phenanthrene | 10 | | | | | | | R |
| Anthracene | 10 | | | | | | | R |
| Carbazole | 10 | | | | | | | R |
| Di-n-Butylphthalate | 10 | | | | | | | R |
| Fluoranthene | 10 | | | | | | | R |
| Pyrene | 10 | | | | | | | R |
| Butylbenzylphthalate | 10 | | | | | | | R |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | | | | | R |
| Benzo(a)anthracene | 10 | | | | | | | R |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 1 J | 10 U | | 10 U | | 10 U |
| Chrysene | 10 | | | | | | | R |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-S16 | GW-S16-105 | GW-S17 | GW-S17-DL | GW-S20 | GW-S20-DL | GW-S18 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S071 | S072 | S073 | S073D | S075 | S075D | S104 |
| Remarks | | | Field Blank | | | Dup. of RNS-GW-S1 | Dup. of RNS-GW-S1 | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl/Di-n-Octylphthalate | 10 | | | | | | | R |
| Benzo(b)fluoranthene | 10 | | | | | | | R |
| Benzo(k)fluoranthene | 10 | | | | | | | R |
| Benzo(a)pyrene | 10 | | | | | | | R |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | | R |
| Dibenz(a,h)anthracene | 10 | | | | | | | R |
| Benzo(g,h,i)perylene | 10 | | | | | | | R |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | R |
| Diphenylsulfone | 50 | | | 530 J | 970 | 550 J | 980 | R |
| Quantitation Limit Multiplier | | 1.0 | 1.0 | 1.0 | 20 | 1.0 | 20 | 1.00 |
| Date of Sample Collection | | 10/28/92 | 10/28/92 | 11/02/92 | 11/02/92 | 11/02/92 | 11/02/92 | 11/04/92 |
| Date Sample Received by Lab | | 10/29/92 | 10/29/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/05/92 |
| Date Sample Extracted | | 11/03/92 | 11/03/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 12/07/92 |
| Date of Sample Analysis | | 11/11/92 | 11/11/92 | 11/11/92 | 11/13/92 | 11/11/92 | 11/13/92 | 12/10/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-S22 | GW-S22RE | GW-S19 | GW-S19DL | GW-D1 | GW-D1-104 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S105 | S105RA | S100 | S100D | S040 | S041 |
| Remarks | | Dup. of RNS-GW-S1 | Reanalysis | | Dilution | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | 39 J | 9 J | 17 | | | |
| bis(2-Chloroethyl)ether | 10 | R | R | | | | |
| 2-Chlorophenol | 10 | R | R | | | | |
| 1,3-Dichlorobenzene | 10 | R | R | 1 J | | | |
| 1,4-Dichlorobenzene | 10 | 93 J | 90 J | 1 J | | | |
| 1,2-Dichlorobenzene | 10 | 1700 J | 1800 J | 200 J | 350 J | | |
| 2-Methylphenol | 10 | 3 J | 3 J | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | R | R | UJ | | | |
| 4-Methylphenol | 10 | R | R | 2 J | | | |
| N-Nitroso-di-n-Propylamine | 10 | R | R | | | | |
| Hexachloroethane | 10 | 27 J | 24 J | | | | |
| Nitrobenzene | 10 | R | 120 J | | | | |
| Isophorone | 10 | R | R | | | | |
| 2-Nitrophenol | 10 | R | R | | | | |
| 2,4-Dimethylphenol | 10 | R | R | | | | |
| bis(2-Chloroethoxy)methane | 10 | R | R | | | | |
| 2,4-Dichlorophenol | 10 | 210 J | 220 J | | | | |
| 1,2,4-Trichlorobenzene | 10 | R | R | | | | |
| Naphthalene | 10 | R | R | | | | |
| 4-Chloroaniline | 10 | R | R | | | | |
| Hexachlorobutadiene | 10 | R | R | | | | |
| 4-Chloro-3-Methylphenol | 10 | 660 J | R | | | | |
| 2-Methylnaphthalene | 10 | R | R | | | | |
| Hexachlorocyclopentadiene | 10 | R | R | UJ | UJ | | |
| 2,4,6-Trichlorophenol | 10 | R | R | | | | |
| 2,4,5-Trichlorophenol | 25 | R | R | | | | |
| 2-Chloronaphthalene | 10 | R | R | | | | |
| 2-Nitroaniline | 25 | R | R | | | | |
| Dimethylphthalate | 10 | R | R | | | | |
| Acenaphthylene | 10 | R | R | | | | |
| 3-Nitroaniline | 25 | R | R | | UJ | | |
| Acenaphthene | 10 | R | R | | | | |
| 2,4-Dinitrophenol | 25 | R | R | UJ | | | |
| 4-Nitrophenol | 25 | R | R | UJ | UJ | | |
| Dibenzofuran | 10 | R | R | | | | |
| 2,4-Dinitrotoluene | 10 | R | R | | | | |
| 2,6-Dinitrotoluene | 10 | R | 64 J | | | | |
| Diethylphthalate | 10 | R | R | | | | |
| 4-Chlorophenylphenylether | 10 | R | R | | | | |
| Fluorene | 10 | R | R | | | | |
| 4-Nitroaniline | 25 | R | R | UJ | UJ | | |
| 4,6-Dinitro-2-Methylphenol | 25 | R | R | UJ | | | |
| N-Nitrosodiphenylamine | 10 | R | R | | | | |
| 4-Bromophenylphenylether | 10 | R | R | | | | |
| Hexachlorobenzene | 10 | R | R | | | | |
| Pentachlorophenol | 25 | R | R | | | | |
| Phenanthrene | 10 | R | R | | | | |
| Anthracene | 10 | R | R | | | | |
| Carbazole | 10 | R | 15 J | | | | |
| Di-n-Butylphthalate | 10 | R | R | | | | |
| Fluoranthene | 10 | R | R | | | | |
| Pyrene | 10 | R | R | | | | |
| Butylbenzylphthalate | 10 | R | R | | | | |
| 3,3'-Dichlorobenzidine | 10 | R | R | | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | R | R | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | R | R | 10 U | | 10 U | 5 J |
| Chrysene | 10 | R | R | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-S22 | GW-S22RE | GW-S19 | GW-S19DL | GW-D1 | GW-D1-104 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S105 | S105RA | S100 | S100D | S040 | S041 |
| Remarks | | Dup. cf RNS-GW-S1 | Reanalysis | | Dilution | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | R | R | | UJ | | |
| Benzo(b)fluoranthene | 10 | R | R | | | | |
| Benzo(k)fluoranthene | 10 | R | R | | | | |
| Benzo(a)pyrene | 10 | R | R | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | R | R | UJ | | | |
| Dibenz(a,h)anthracene | 10 | R | R | UJ | UJ | | |
| Benzo(g,h,i)perylene | 10 | R | R | | | | |
| 3,4-Dichloronitrobenzene | 10 | R | R | | | | |
| Diphenylsulfone | 50 | 930 J | 790 J | 1000 J | 2500 | 3 J | |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 100 | 1.00 | 1.00 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Lab | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 11/09/92 | 11/09/92 | 11/09/92 | 11/09/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 12/10/92 | 12/17/92 | 11/19/92 | 12/16/92 | 11/05/92 | 11/06/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D2 | GW-D2DL | GW-D3 | GW-D18 | GW-D4 | GW-D5 | GW-D6 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S089 | S089D | S062 | S064 | S060 | S056 | S097 |
| Remarks | | | Dilution | | Dup. of RNS-GW-D3 | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | |
| Phenol | 10 | 10 U | | 1 J | 2 J | 14 | | 7 J |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | 1 J | | | | | | 4 J |
| 1,2-Dichlorobenzene | 10 | 100 J | 140 | 8 J | 11 | | | 270 J |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | UJ | | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | | 2 J |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | 1 J |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | UJ | UJ | | | | | UJ |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | | | | | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | | | | UJ |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | | | UJ |
| 4-Nitrophenol | 25 | | UJ | | | | | UJ |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | UJ | | | | | | UJ |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | | | | | | |
| Di-n-Butylphthalate | 10 | | | | 10 U | | | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | UJ | UJ | | | UJ |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 10 U | 10 U | 10 U | 10 U | |
| Chrysene | 10 | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D2 | GW-D2DL | GW-D3 | GW-D18 | GW-D4 | GW-D5 | GW-D6 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S089 | S089D | S062 | S064 | S060 | S056 | S097 |
| Remarks | | | Dilution | | Dup. of RNS-GW-D3 | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | | | UJ |
| Benzo(b)fluoranthene | 10 | | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | | UJ |
| Benzo(a)pyrene | 10 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | | UJ |
| Benzo(g,h,i)perylene | 10 | | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | |
| Diphenylsulfone | 50 | 250 J | 340 | 23 J | 14 J | | | 170 J |
| Quantitation Limit Multiplier | | 1.0 | 10 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 10/28/92 | 10/28/92 | 10/27/92 | 10/27/92 | 11/03/92 |
| Date Sample Received by Lab | | 11/04/92 | 11/04/92 | 10/29/92 | 10/29/92 | 10/28/92 | 10/28/92 | 11/05/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 10/30/92 | 11/03/92 | 10/30/92 | 10/30/92 | 11/09/92 |
| Date of Sample Analysis | | 11/13/92 | 11/13/92 | 11/10/92 | 11/10/92 | 11/10/92 | 11/09/92 | 11/17/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-D6DL | GW-D7 | GW-D7-DL | GW-D8 | GW-D8DL | GW-D9 | GW-D10 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S097D | S067 | S067D | S074 | S074D | S070 | S034 |
| Remarks | | Dilution | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | Dilution | | Dilution | | |
| Phenol | 10 | 100 U | | 1 J | 2 J | | 2 J | |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | 4 J | | | |
| 1,2-Dichlorobenzene | 10 | 570 | 100 J | 130 | 370 J | 950 | | |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | UJ | | | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | UJ | | | | UJ | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | | | | | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | | | | |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ | |
| 4-Nitrophenol | 25 | UJ | | | | | | |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | 10 U | 10 U | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |
| 4-Nitroaniline | 25 | UJ | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | UJ | UJ | UJ | | |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | 10 U | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | UJ | | | | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | 10 U | 20 U | | | 10 U | 10 U |
| Chrysene | 10 | | | | | | | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-D6DL | GW-D7 | GW-D7-DL | GW-D8 | GW-D8DL | GW-D9 | GW-D10 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S097D | S067 | S067D | S074 | S074D | S070 | S034 |
| Remarks | | Dilution | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | UJ | | | | | | |
| Dibenz(a,h)anthracene | 10 | UJ | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | |
| Diphenylsulfone | 50 | 200 J | 100 J | 120 | 160 J | 810 | | |
| Quantitation Limit Multiplier | | 10 | 1.0 | 2.0 | 1.0 | 20 | 1.0 | 1.00 |
| Date of Sample Collection | | 11/03/92 | 10/28/92 | 10/28/92 | 11/02/92 | 11/02/92 | 10/28/92 | 10/22/92 |
| Date Sample Received by Lab | | 11/05/92 | 10/29/92 | 10/29/92 | 11/03/92 | 11/03/92 | 10/29/92 | 10/23/92 |
| Date Sample Extracted | | 11/09/92 | 11/03/92 | 11/03/92 | 11/05/92 | 11/05/92 | 11/03/92 | 10/27/92 |
| Date of Sample Analysis | | 11/19/92 | 11/10/92 | 11/12/92 | 11/11/92 | 11/13/92 | 11/11/92 | 11/05/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D11 | GW-D11DL | GW-D12 | GW-D12DL | GW-S21 | GW-S21DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S093 | S093D | S090R2 | S090D | S091 | S091D |
| Remarks | | | Dilution | | Dilution | Dup. of RNS-GW-D12 | Dup. of RNS-GW-D12 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Ag) | | | | | | Dilution |
| Phenol | 10 | 7 J | | 24 J | R | 10 U | |
| bis(2-Chloroethyl)ether | 10 | | | R | R | | |
| 2-Chlorophenol | 10 | | | R | R | | |
| 1,3-Dichlorobenzene | 10 | | | R | R | | |
| 1,4-Dichlorobenzene | 10 | 2 J | | 150 J | R | 180 J | |
| 1,2-Dichlorobenzene | 10 | 190 J | 330 J | R* | 31,000 J | 5300 JN | 24,000 J |
| 2-Methylphenol | 10 | | | R | R | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | UJ | R | R | | |
| 4-Methylphenol | 10 | | | R | R | | |
| N-Nitroso-di-n-Propylamine | 10 | | | R | R | | |
| Hexachloroethane | 10 | 15 | | 260 J | 470 J | 210 J | 320 J |
| Nitrobenzene | 10 | | | R | R | | |
| Isophorone | 10 | | | R | R | | |
| 2-Nitrophenol | 10 | | | R | R | | |
| 2,4-Dimethylphenol | 10 | | | R | R | | |
| bis(2-Chloroethoxy)methane | 10 | | | R | R | | |
| 2,4-Dichlorophenol | 10 | 11 | | 19 J | R | 18 | |
| 1,2,4-Trichlorobenzene | 10 | | | 23 J | R | 18 | |
| Naphthalene | 10 | | | 22 J | R | 15 J | |
| 4-Chloroaniline | 10 | | | R | R | | |
| Hexachlorobutadiene | 10 | 14 | | 66 J | R | 110 J | |
| 4-Chloro-3-Methylphenol | 10 | | | R | R | | |
| 2-Methylnaphthalene | 10 | | | R | R | | |
| Hexachlorocyclopentadiene | 10 | UJ | UJ | R | R | UJ | UJ |
| 2,4,6-Trichlorophenol | 10 | | | 3 R | R | | |
| 2,4,5-Trichlorophenol | 25 | | | R | R | | |
| 2-Chloronaphthalene | 10 | | | R | R | | |
| 2-Nitroaniline | 25 | 10 R | | R | R | | |
| Dimethylphthalate | 10 | | | R | R | | |
| Acenaphthylene | 10 | | | R | R | | |
| 3-Nitroaniline | 25 | | | R | R | | UJ |
| Acenaphthene | 10 | | | R | R | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | R | R | UJ | UJ |
| 4-Nitrophenol | 25 | | UJ | R | R | | UJ |
| Dibenzofuran | 10 | | | R | R | | |
| 2,4-Dinitrotoluene | 10 | | | R | R | | |
| 2,6-Dinitrotoluene | 10 | | | R | R | | |
| Diethylphthalate | 10 | | | R | R | | |
| 4-Chlorophenylphenylether | 10 | | | R | R | | |
| Fluorene | 10 | | | R | R | | |
| 4-Nitroaniline | 25 | | | R | R | | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | UJ | | R | R | UJ | UJ |
| N-Nitrosodiphenylamine | 10 | | | R | R | | |
| 4-Bromophenylphenylether | 10 | | | R | R | | |
| Hexachlorobenzene | 10 | 2 J | | 18 J | R | 130 J | |
| Pentachlorophenol | 25 | | | R | R | | |
| Phenanthrene | 10 | | | R | R | | |
| Anthracene | 10 | | | R | R | | |
| Carbazole | 10 | | | R | R | | |
| Di-n-Butylphthalate | 10 | | | R | R | | |
| Fluoranthene | 10 | | | R | R | | |
| Pyrene | 10 | | | R | R | | |
| Butylbenzylphthalate | 10 | | | R | R | | |
| 3,3'-Dichlorobenzidine | 10 | | | R | R | | UJ |
| Benzo(a)anthracene | 10 | | | R | R | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 10 U | R | 34 J | |
| Chrysene | 10 | | | R | R | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D11 | GW-D11DL | GW-D12 | GW-D12DL | GW-S21 | GW-S21DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S093 | S093D | S090R2 | S090D | S091 | S091D |
| Remarks | | | Dilution | | Dilution | Dup. of RNS-GW-D12 | Dup. of RNS-GW-D12 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | R | R | | UJ |
| Benzo(b)fluoranthene | 10 | | | R | R | | |
| Benzo(k)fluoranthene | 10 | | | R | R | | UJ |
| Benzo(a)pyrene | 10 | | | R | R | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | R | R | | |
| Dibenz(a,h)anthracene | 10 | | | R | R | | UJ |
| Benzo(g,h,i)perylene | 10 | | | R | R | | |
| 3,4-Dichloronitrobenzene | 10 | | | 12 J | R | | |
| Diphenylsulfone | 50 | 1200 J | 3700 J | 2400 J | 13,000 J | 2400 J | 13,000 J |
| Quantitation Limit Multiplier | | 1.0 | 100 | 1.0 | 500 | 1.0 | 400 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Lab | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 12/07/92 | 12/07/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 11/13/92 | 11/17/92 | 12/10/92 | 12/16/92 | 11/13/92 | 11/18/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D13 | GW-D14 | GW-D19 | GW-D15 | GW-D15DL | GW-D16 | GW-D17 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S094 | S078 | S079 | S086 | S086D | S013 | S083 |
| Remarks | | | | Dup. of RNS-GW-D14 | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Ag) | | | | | | | |
| Phenol | 10 | | | | 10 U | | | 10 U |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | 1 R | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | 3 J | | | |
| 1,2-Dichlorobenzene | 10 | 10 U | 10 U | | 360 J | 900 | | 58 J |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | UJ | | | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | 3 J | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | UJ | | | UJ | UJ | | UJ |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | | | | 7 R | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | | | | |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | | UJ |
| 4-Nitrophenol | 25 | UJ | | | | | | |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | UJ | UJ | UJ | UJ | | UJ |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | 10 U | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | 1 J | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | | UJ | | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | | | 23 U | 10 U |
| Chrysene | 10 | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-D13 | GW-D14 | GW-D19 | GW-D15 | GW-D15DL | GW-D16 | GW- |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S094 | S078 | S079 | S086 | S086D | S013 | S0 |
| Remarks | | | | Dup. of RNS-GW-D14 | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | |
| Diphenylsulfone | 50 | 1 J | | | 790 J | 1500 J | | 62 J |
| Quantitation Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 50 | 1.00 | 1.0 |
| Date of Sample Collection | | 11/03/92 | 11/02/92 | 11/02/92 | 11/03/92 | 11/03/92 | 10/21/92 | 11/03/92 |
| Date Sample Received by Lab | | 11/04/92 | 11/03/92 | 11/03/92 | 11/04/92 | 11/04/92 | 10/22/92 | 11/04/92 |
| Date Sample Extracted | | 11/09/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/23/92 | 11/05/92 |
| Date of Sample Analysis | | 11/16/92 | 11/11/92 | 11/12/92 | 11/12/92 | 11/13/92 | 11/03/92 | 11/12/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-T1 | GW-T1DL | GW-T2 | GW-T2DL | GW-RW1 | GW-RW1DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S098RE | S098D | S099 | S099D | S106 | S106D |
| Remarks | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | 7 J | R | 11 J | | 10 U | |
| bis(2-Chloroethyl)ether | 10 | R | R | 1 J | | | |
| 2-Chlorophenol | 10 | 3 J | R | 1 J | | | |
| 1,3-Dichlorobenzene | 10 | 2 J | R | 4 J | | 5 J | |
| 1,4-Dichlorobenzene | 10 | 29 J | R | 65 J | | 100 J | |
| 1,2-Dichlorobenzene | 10 | 940 J | 4900 J | 1800 J | 12,000 | 2000 J | 14,000 |
| 2-Methylphenol | 10 | R | R | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | R | R | R | UJ | | |
| 4-Methylphenol | 10 | 16 J | R | 1 J | | | |
| N-Nitroso-di-n-Propylamine | 10 | R | R | R | | | |
| Hexachloroethane | 10 | R | R | 270 J | 420 J | 250 J | 420 J |
| Nitrobenzene | 10 | R | R | 11 J | | 14 | |
| Isophorone | 10 | R | R | R | | | |
| 2-Nitrophenol | 10 | R | R | | | | |
| 2,4-Dimethylphenol | 10 | R | R | | | | |
| bis(2-Chloroethoxy)methane | 10 | R | R | R | | | |
| 2,4-Dichlorophenol | 10 | 1 J | R | 35 J | | 11 | |
| 1,2,4-Trichlorobenzene | 10 | R | R | 7 J | | 5 J | |
| Naphthalene | 10 | R | R | 16 J | | 7 J | |
| 4-Chloroaniline | 10 | R | R | R | | UJ | |
| Hexachlorobutadiene | 10 | R | R | 44 J | | 26 | |
| 4-Chloro-3-Methylphenol | 10 | R | R | | | | |
| 2-Methylnaphthalene | 10 | R | R | P | | 1 J | |
| Hexachlorocyclopentadiene | 10 | R | R | R | UJ | | UJ |
| 2,4,6-Trichlorophenol | 10 | R | R | | | 5 J | |
| 2,4,5-Trichlorophenol | 25 | R | R | | | | |
| 2-Chloronaphthalene | 10 | R | R | R | | | |
| 2-Nitroaniline | 25 | 68 J | R | 22 J | | | |
| Dimethylphthalate | 10 | R | R | R | | | |
| Acenaphthylene | 10 | R | R | R | | | |
| 3-Nitroaniline | 25 | R | R | R | | UJ | UJ |
| Acenaphthene | 10 | R | R | R | | | |
| 2,4-Dinitrophenol | 25 | R | R | UJ | UJ | | |
| 4-Nitrophenol | 25 | R | R | UJ | UJ | UJ | UJ |
| Dibenzofuran | 10 | R | R | R | | | |
| 2,4-Dinitrotoluene | 10 | R | R | R | | | |
| 2,6-Dinitrotoluene | 10 | R | R | R | | | |
| Diethylphthalate | 10 | R | R | R | | | |
| 4-Chlorophenylphenylether | 10 | R | R | R | | | |
| Fluorene | 10 | R | R | R | | | |
| 4-Nitroaniline | 25 | R | R | R | UJ | UJ | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | R | R | UJ | UJ | | |
| N-Nitrosodiphenylamine | 10 | R | R | R | | | |
| 4-Bromophenylphenylether | 10 | R | R | R | | | |
| Hexachlorobenzene | 10 | R | R | 6 J | | 5 J | |
| Pentachlorophenol | 25 | R | R | | | | |
| Phenanthrene | 10 | R | R | R | | | |
| Anthracene | 10 | R | R | R | | | |
| Carbazole | 10 | R | R | R | | | |
| Di-n-Butylphthalate | 10 | R | R | R | | | |
| Fluoranthene | 10 | R | R | R | | | |
| Pyrene | 10 | R | R | R | | | |
| Butylbenzylphthalate | 10 | R | R | R | | | |
| 3,3'-Dichlorobenzidine | 10 | R | R | R | | UJ | UJ |
| Benzo(a)anthracene | 10 | R | R | R | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | R | R | | | |
| Chrysene | 10 | R | R | R | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-T1 | GW-T1DL | GW-T2 | GW-T2DL | GW-RW1 | GW-RW1DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S098RE | S098D | S099 | S099D | S106 | S106D |
| Remarks | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | R | R | R | | UJ | UJ |
| Benzo(b)fluoranthene | 10 | R | R | R | | | |
| Benzo(k)fluoranthene | 10 | R | R | R | | | |
| Benzo(a)pyrene | 10 | R | R | R | | | |
| Indeno(1,2,3-cd)pyrene | 10 | R | R | R | UJ | | |
| Dibenz(a,h)anthracene | 10 | R | R | R | UJ | | UJ |
| Benzo(g,h,i)perylene | 10 | R | R | R | | | |
| 3,4-Dichloronitrobenzene | 10 | R | R | R | | 9 J | |
| Diphenylsulfone | 50 | 59 J | 66 J | 2200 J | 9800 J | 1700 J | 7300 J |
| Quantitation Limit Multiplier | | 1.00 | 100 | 1.00 | 400 | 1.00 | 200 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Received by Lab | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 11/24/92 | 11/24/92 | 11/09/92 | 11/09/92 | 11/09/92 | 11/09/92 |
| Date of Sample Analysis | | 12/02/92 | 12/03/92 | 11/17/92 | 11/19/92 | 12/10/92 | 12/16/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-RW1-10 | GW-AS | GW-AUB | GW-AVF1 | GW-BS | GW-BSDL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S108 | S037 | S036 | SC38 | S039 | S039D |
| Remarks | | Field Blank | | | Dup. of RNS-GW-AUB | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | | | | | 5 J | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | 1 J | |
| 1,3-Dichlorobenzene | 10 | | | | | 2 J | |
| 1,4-Dichlorobenzene | 10 | | | | | 30 | |
| 1,2-Dichlorobenzene | 10 | 25 | | | | 850 J | 3500 |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | 1 J | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | UJ | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | UJ | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | | | |
| 4-Nitrophenol | 25 | UJ | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |
| 4-Nitroaniline | 25 | UJ | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | 10 U | 10 U | 10 U | 10 U | |
| Chrysene | 10 | | | | | | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-RW1-10 | GW-AS | GW-AUB | GW-AVF1 | GW-BS | GW-BSDL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S108 | S037 | S036 | SO38 | S039 | S039D |
| Remarks | | Field Blank | | | Dup. of RNS-GW-AUB | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | UJ | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | |
| Diphenylsulfone | 50 | 2 J | | 1 J | 1 J | 55 | 58 J |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 100 |
| Date of Sample Collection | | 11/04/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Lab | | 11/05/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 11/09/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 12/10/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/10/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-CS | GW-CUB | GW-CLB | GW-DVF2 | GW-DVF3 | GW-DLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S005 | S006 | S021 | S020 | S019 | S018 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | | | 10 U | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | | | |
| 4-Nitrophenol | 25 | | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | 1 J | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-CS | GW-CUB | GW-CLB | GW-DVF2 | GW-DVF3 | GW-DLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S005 | S006 | S021 | S020 | S019 | S018 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | |
| Diphenylsulfone | 50 | | | | | | |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Date of Sample Collection | | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Lab | | 10/21/92 | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 11/02/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-EVF1 | GW-EVF2 | GW-EVF3 | GW-EVF5 | GW-EVF5/RA |
|---|---|---|---|---|---|---|
| *Laboratory Sample Number* | | S010 | S011 | S012 | S014 | S014RA |
| Remarks | | | | | Dup. of RNS-GW-EVF3 | Dup. of RNS-GW-EVF3 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Phenol | 10 | | | | UJ | UJ |
| bis(2-Chloroethyl)ether | 10 | | | | UJ | UJ |
| 2-Chlorophenol | 10 | | | | UJ | UJ |
| 1,3-Dichlorobenzene | 10 | | | | UJ | UJ |
| 1,4-Dichlorobenzene | 10 | | | | UJ | UJ |
| 1,2-Dichlorobenzene | 10 | | | | UJ | UJ |
| 2-Methylphenol | 10 | | | | UJ | UJ |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | UJ | UJ |
| 4-Methylphenol | 10 | | | | UJ | UJ |
| N-Nitroso-di-n-Propylamine | 10 | | | | UJ | UJ |
| Hexachloroethane | 10 | | | | UJ | UJ |
| Nitrobenzene | 10 | | | | UJ | UJ |
| Isophorone | 10 | | | | UJ | UJ |
| 2-Nitrophenol | 10 | | | | UJ | UJ |
| 2,4-Dimethylphenol | 10 | | | | UJ | UJ |
| bis(2-Chloroethoxy)methane | 10 | | | | UJ | UJ |
| 2,4-Dichlorophenol | 10 | | | | UJ | UJ |
| 1,2,4-Trichlorobenzene | 10 | | | | UJ | UJ |
| Naphthalene | 10 | | | | UJ | UJ |
| 4-Chloroaniline | 10 | | | | UJ | UJ |
| Hexachlorobutadiene | 10 | | | | UJ | UJ |
| 4-Chloro-3-Methylphenol | 10 | | | | UJ | UJ |
| 2-Methylnaphthalene | 10 | | | | UJ | UJ |
| Hexachlorocyclopentadiene | 10 | | | | UJ | UJ |
| 2,4,6-Trichlorophenol | 10 | | | | UJ | UJ |
| 2,4,5-Trichlorophenol | 25 | | | | UJ | UJ |
| 2-Chloronaphthalene | 10 | | | | UJ | UJ |
| 2-Nitroaniline | 25 | | | | UJ | UJ |
| Dimethylphthalate | 10 | | | | UJ | UJ |
| Acenaphthylene | 10 | | | | UJ | UJ |
| 3-Nitroaniline | 25 | | | | UJ | UJ |
| Acenaphthene | 10 | | | | UJ | UJ |
| 2,4-Dinitrophenol | 25 | | | | UJ | UJ |
| 4-Nitrophenol | 25 | | | | UJ | UJ |
| Dibenzofuran | 10 | | | | UJ | UJ |
| 2,4-Dinitrotoluene | 10 | | | | UJ | UJ |
| 2,6-Dinitrotoluene | 10 | | | | UJ | UJ |
| Diethylphthalate | 10 | | | | UJ | UJ |
| 4-Chlorophenylphenylether | 10 | | | | UJ | UJ |
| Fluorene | 10 | | | | UJ | UJ |
| 4-Nitroaniline | 25 | | | | UJ | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | UJ | UJ |
| N-Nitrosodiphenylamine | 10 | | | | UJ | UJ |
| 4-Bromophenylphenylether | 10 | | | | UJ | UJ |
| Hexachlorobenzene | 10 | | | | UJ | UJ |
| Pentachlorophenol | 25 | | | | UJ | UJ |
| Phenanthrene | 10 | | | | UJ | UJ |
| Anthracene | 10 | | | | UJ | UJ |
| Carbazole | 10 | | | | UJ | UJ |
| Di-n-Butylphthalate | 10 | | | | 10 U | 10 U |
| Fluoranthene | 10 | | | | UJ | UJ |
| Pyrene | 10 | | | | UJ | UJ |
| Butylbenzylphthalate | 10 | | | | UJ | UJ |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | UJ | UJ |
| bis(2-Ethylhexyl)phthalate | 10 | | | | UJ | UJ |
| Chrysene | 10 | | | | UJ | UJ |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-EVF1 | GW-EVF2 | GW-EVF3 | GW-EVF5 | GW-EVF5/RA |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S010 | S011 | S012 | S014 | S014RA |
| Remarks | | | | | Dup. of RNS-GW-EVF3 | Dup. of RNS-GW-EVF3 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | UJ | UJ |
| Benzo(b)fluoranthene | 10 | | | | UJ | UJ |
| Benzo(k)fluoranthene | 10 | | | | UJ | UJ |
| Benzo(a)pyrene | 10 | | | | UJ | UJ |
| Indeno(1,2,3-cd)pyrene | 10 | | | | UJ | UJ |
| Dibenz(a,h)anthracene | 10 | | | | UJ | UJ |
| Benzo(g,h,i)perylene | 10 | | | | UJ | UJ |
| 3,4-Dichloronitrobenzene | 10 | | | | UJ | UJ |
| Diphenylsulfone | 50 | | | | UJ | UJ |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Date of Sample Collection | | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Lab | | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/06/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-EVF5/RE | GW-EVF5/R | GW-EVF4 | GW-ELB | GW-ELBDL | GW-FVF3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S014RE | S014RR | S022 | S025 | SO25D | S027 |
| Remarks | | Dup. of RNS-GW-EVF3 | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | R | R | | | | |
| bis(2-Chloroethyl)ether | 10 | R | R | | | | |
| 2-Chlorophenol | 10 | R | R | | | | |
| 1,3-Dichlorobenzene | 10 | R | R | | | | |
| 1,4-Dichlorobenzene | 10 | R | R | | | | |
| 1,2-Dichlorobenzene | 10 | R | R | | | | |
| 2-Methylphenol | 10 | R | R | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | R | R | | | | |
| 4-Methylphenol | 10 | R | R | | | | |
| N-Nitroso-di-n-Propylamine | 10 | R | R | UJ | | | |
| Hexachloroethane | 10 | R | R | | | | |
| Nitrobenzene | 10 | R | R | | | | |
| Isophorone | 10 | R | R | | | | |
| 2-Nitrophenol | 10 | R | R | | | | |
| 2,4-Dimethylphenol | 10 | R | R | | | | |
| bis(2-Chloroethoxy)methane | 10 | R | R | | | | |
| 2,4-Dichlorophenol | 10 | R | R | | | | |
| 1,2,4-Trichlorobenzene | 10 | R | R | | | | |
| Naphthalene | 10 | R | R | | 3 J | | |
| 4-Chloroaniline | 10 | R | R | | | | |
| Hexachlorobutadiene | 10 | R | R | | | | |
| 4-Chloro-3-Methylphenol | 10 | R | R | | | | |
| 2-Methylnaphthalene | 10 | R | R | | 1 J | | |
| Hexachlorocyclopentadiene | 10 | R | R | | | | |
| 2,4,6-Trichlorophenol | 10 | R | R | | | | |
| 2,4,5-Trichlorophenol | 25 | R | R | | | | |
| 2-Chloronaphthalene | 10 | R | R | | | | |
| 2-Nitroaniline | 25 | R | R | | | | |
| Dimethylphthalate | 10 | R | R | | | | |
| Acenaphthylene | 10 | R | R | | | | |
| 3-Nitroaniline | 25 | R | R | | | | |
| Acenaphthene | 10 | R | R | | | | |
| 2,4-Dinitrophenol | 25 | R | R | | | | |
| 4-Nitrophenol | 25 | R | R | | | | |
| Dibenzofuran | 10 | R | R | | | | |
| 2,4-Dinitrotoluene | 10 | R | R | | | | |
| 2,6-Dinitrotoluene | 10 | R | R | | | | |
| Diethylphthalate | 10 | R | R | | | | |
| 4-Chlorophenylphenylether | 10 | R | R | | | | |
| Fluorene | 10 | R | R | | | | |
| 4-Nitroaniline | 25 | R | R | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | R | R | | | | |
| N-Nitrosodiphenylamine | 10 | R | R | | | | |
| 4-Bromophenylphenylether | 10 | R | R | | | | |
| Hexachlorobenzene | 10 | R | R | | | | |
| Pentachlorophenol | 25 | R | R | | | | |
| Phenanthrene | 10 | R | R | | | | |
| Anthracene | 10 | R | R | | | | |
| Carbazole | 10 | R | R | | | | |
| Di-n-Butylphthalate | 10 | R | R | 10 U | 10 U | | 10 U |
| Fluoranthene | 10 | R | R | | | | |
| Pyrene | 10 | R | R | | | | |
| Butylbenzylphthalate | 10 | R | R | | 5 J | | |
| 3,3'-Dichlorobenzidine | 10 | R | R | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | R | R | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | R | R | 10 U | 510 J | 920 | 10 U |
| Chrysene | 10 | R | R | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-EVF5/RE | GW-EVF5/R | GW-EVF4 | GW-ELB | GW-ELBDL | GW-FVF3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S014RE | S014RR | S022 | S025 | SO25D | S027 |
| Remarks | | Dup. of RNS-GW-EVF3 | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | R | R | | | | |
| Benzo(b)fluoranthene | 10 | R | R | | | | |
| Benzo(k)fluoranthene | 10 | R | R | | | | |
| Benzo(a)pyrene | 10 | R | R | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | R | R | | | | |
| Dibenz(a,h)anthracene | 10 | R | R | | | | |
| Benzo(g,h,i)perylene | 10 | R | R | | | | |
| 3,4-Dichloronitrobenzene | 10 | R | R | | | | |
| Diphenylsulfone | 50 | R | R | | | | |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 20.0 | 1.00 |
| Date of Sample Collection | | 10/21/92 | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Lab | | 10/22/92 | 10/22/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date Sample Extracted | | 11/11/92 | 11/23/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 11/20/92 | 12/01/92 | 11/04/92 | 11/04/92 | 11/06/92 | 11/04/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-FVF4RE | GW-F-VF6RE | GW-FLB | GW-GUB | GW-GUBDL | GW-HS |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S026RR | S032RR | S033 | S101R2 | S101D | S030 |
| Remarks | | Reextraction | Reextraction | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | R | R | | 10 U | R | |
| bis(2-Chloroethyl)ether | 10 | R | R | | R | R | |
| 2-Chlorophenol | 10 | R | R | | R | R | |
| 1,3-Dichlorobenzene | 10 | R | R | | R | R | |
| 1,4-Dichlorobenzene | 10 | R | R | | 1 J | R | |
| 1,2-Dichlorobenzene | 10 | R | R | | 200 J | 390 J | |
| 2-Methylphenol | 10 | R | R | | R | R | |
| 2,2-Oxybis(1-Chloropropane) | 10 | R | R | | R | R | |
| 4-Methylphenol | 10 | R | R | | R | R | |
| N-Nitroso-di-n-Propylamine | 10 | R | R | | R | R | |
| Hexachloroethane | 10 | R | R | | R | R | |
| Nitrobenzene | 10 | R | R | | R | R | |
| Isophorone | 10 | R | R | | R | R | |
| 2-Nitrophenol | 10 | R | R | | R | R | |
| 2,4-Dimethylphenol | 10 | R | R | | R | R | |
| bis(2-Chloroethoxy)methane | 10 | R | R | | R | R | |
| 2,4-Dichlorophenol | 10 | R | R | | R | R | |
| 1,2,4-Trichlorobenzene | 10 | R | R | | R | R | |
| Naphthalene | 10 | R | R | | R | R | |
| 4-Chloroaniline | 10 | R | R | | R | R | |
| Hexachlorobutadiene | 10 | R | R | | R | R | |
| 4-Chloro-3-Methylphenol | 10 | R | R | | R | R | |
| 2-Methylnaphthalene | 10 | R | R | | R | R | |
| Hexachlorocyclopentadiene | 10 | R | R | | R | R | |
| 2,4,6-Trichlorophenol | 10 | R | R | | R | R | |
| 2,4,5-Trichlorophenol | 25 | R | R | | R | R | |
| 2-Chloronaphthalene | 10 | R | R | | R | R | |
| 2-Nitroaniline | 25 | R | R | | R | R | |
| Dimethylphthalate | 10 | R | R | | R | R | |
| Acenaphthylene | 10 | R | R | | R | R | |
| 3-Nitroaniline | 25 | R | R | | R | R | |
| Acenaphthene | 10 | R | R | | R | R | |
| 2,4-Dinitrophenol | 25 | R | R | | R | R | |
| 4-Nitrophenol | 25 | R | R | | R | R | |
| Dibenzofuran | 10 | R | R | | R | R | |
| 2,4-Dinitrotoluene | 10 | R | R | | R | R | |
| 2,6-Dinitrotoluene | 10 | R | R | | R | R | |
| Diethylphthalate | 10 | R | R | | R | R | |
| 4-Chlorophenylphenylether | 10 | R | R | | R | R | |
| Fluorene | 10 | R | R | | R | R | |
| 4-Nitroaniline | 25 | R | R | | R | R | |
| 4,6-Dinitro-2-Methylphenol | 25 | R | R | | R | R | |
| N-Nitrosodiphenylamine | 10 | R | R | | R | R | |
| 4-Bromophenylphenylether | 10 | R | R | | R | R | |
| Hexachlorobenzene | 10 | R | R | | R | R | |
| Pentachlorophenol | 25 | R | R | | R | R | |
| Phenanthrene | 10 | R | R | | R | R | |
| Anthracene | 10 | R | R | | R | R | |
| Carbazole | 10 | R | R | | R | R | |
| Di-n-Butylphthalate | 10 | R | 10 U | 10 U | R | R | |
| Fluoranthene | 10 | R | R | | R | R | |
| Pyrene | 10 | R | R | | R | R | |
| Butylbenzylphthalate | 10 | R | R | | R | R | |
| 3,3'-Dichlorobenzidine | 10 | R | R | UJ | R | R | UJ |
| Benzo(a)anthracene | 10 | R | R | | R | R | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U | R | 10 U |
| Chrysene | 10 | R | R | | R | R | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-FVF4RE | GW-F-VF6RE | GW-FLB | GW-GUB | GW-GUBDL | GW-HS |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S026RR | S032RR | S033 | S101R2 | S101D | S030 |
| Remarks | | Reextraction | Reextraction | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | R | R | | R | R | |
| Benzo(b)fluoranthene | 10 | R | R | | R | R | |
| Benzo(k)fluoranthene | 10 | R | R | | R | R | |
| Benzo(a)pyrene | 10 | R | R | | R | R | |
| Indeno(1,2,3-cd)pyrene | 10 | R | R | | R | R | |
| Dibenz(a,h)anthracene | 10 | R | R | | R | R | |
| Benzo(g,h,i)perylene | 10 | R | R | | R | R | |
| 3,4-Dichloronitrobenzene | 10 | R | R | | R | R | |
| Diphenylsulfone | 50 | R | R | | 540 J | 1200 J | |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 40.0 | 1.00 |
| Date of Sample Collection | | 10/22/92 | 10/22/92 | 10/22/92 | 11/04/92 | 11/04/92 | 10/22/92 |
| Date Sample Received by Lab | | 10/23/92 | 10/23/92 | 10/23/92 | 11/05/92 | 11/05/92 | 10/23/92 |
| Date Sample Extracted | | 11/07/92 | 12/07/92 | 10/27/92 | 12/07/92 | 12/07/92 | 10/27/92 |
| Date of Sample Analysis | | 12/10/92 | 12/10/92 | 11/05/92 | 12/10/92 | 12/16/92 | 11/05/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-HVF1 | GW-HUB | GW-IS | GW-II | IUB | GW-ILB | GW-JVF2 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S031 | S029 | S001 | S002 | S003 | S009 | S051 |
| Remarks | | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Ag) | | | | | | | |
| Phenol | 10 | | | | | | | 1 J |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | | | |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | | | | | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | | | | |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | | | | |
| 4-Nitrophenol | 25 | | | | | | | |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | | | | | | |
| Di-n-Butylphthalate | 10 | 10 U | | | | | | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | uj | UJ | |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | | | | 10 U | 10 U |
| Chrysene | 10 | | | | | | | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-HVF1 | GW-HUB | GW-IS | GW-II | IUB | GW-ILB | GW-JV |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S031 | S029 | S001 | S002 | S003 | S009 | S051 |
| Remarks | | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl/Di-n-Octylphthalate | 10 | | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | | |
| Diphenylsulfone | 50 | | | | | | | |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.0 |
| Date of Sample Collection | | 10/22/92 | 10/22/92 | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 | 10/27/92 |
| Date Sample Received by Lab | | 10/23/92 | 10/23/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/22/92 | 10/28/92 |
| Date Sample Extracted | | 10/27/92 | 10/27/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/30/92 |
| Date of Sample Analysis | | 11/05/92 | 11/04/92 | 11/02/92 | 11/02/92 | 11/02/92 | 11/03/92 | 11/07/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-JVF3 | GW-JVF4 | GW-JLB | GW-KVF2 | GW-KVF3 | GW-KLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S052 | S053 | S048 | S016 | S017 | S007 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | | 1 J | | 10 U | 10 U | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | | | |
| 4-Nitrophenol | 25 | | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | 10 U | 10 U | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | | 10 U | 10 U | 10 U |
| Chrysene | 10 | | | | | | |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-JVF3 | GW-JVF4 | GW-JLB | GW-KVF2 | GW-KVF3 | GW-KJ |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S052 | S053 | S048 | S016 | S017 | S007 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl/Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 10 | | | | | | |
| Diphenylsulfone | 50 | | | | | | |
| Quantitation Limit Multiplier | | 1.0 | 1.0 | 1.00 | 1.00 | 1.00 | 1.00 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 10/27/92 | 10/21/92 | 10/21/92 | 10/20/92 |
| Date Sample Received by Lab | | 10/28/92 | 10/28/92 | 10/28/92 | 10/22/92 | 10/22/92 | 10/21/92 |
| Date Sample Extracted | | 10/30/92 | 10/30/92 | 10/30/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 11/09/92 | 11/09/92 | 11/07/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

**EXTRACTABLE ORGANIC ANALYSIS**

| ERM-Midwest Sample Number | RNS - | GW-KVF5 | GW-LVF1 | GW-LVF2 | GW-LVF3 | GW-LLBRE |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S008 | S044 | S043 | S046 | S045RR |
| Remarks | | Dup. of RNS-GW-KLB | | | Dup. of RNS-GW-LVF2 | Reextraction |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Phenol | 10 | | | 10 U | | R |
| bis(2-Chloroethyl)ether | 10 | | | | | R |
| 2-Chlorophenol | 10 | | | | | R |
| 1,3-Dichlorobenzene | 10 | | | | | R |
| 1,4-Dichlorobenzene | 10 | | | | | R |
| 1,2-Dichlorobenzene | 10 | | | | | R |
| 2-Methylphenol | 10 | | | | | R |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | R |
| 4-Methylphenol | 10 | | | | | R |
| N-Nitroso-di-n-Propylamine | 10 | | | | | R |
| Hexachloroethane | 10 | | | | | R |
| Nitrobenzene | 10 | | | | | R |
| Isophorone | 10 | | | | | R |
| 2-Nitrophenol | 10 | | | | | R |
| 2,4-Dimethylphenol | 10 | | | | | R |
| bis(2-Chloroethoxy)methane | 10 | | | | | R |
| 2,4-Dichlorophenol | 10 | | | | | R |
| 1,2,4-Trichlorobenzene | 10 | | | | | R |
| Naphthalene | 10 | | | | | R |
| 4-Chloroaniline | 10 | | | | | R |
| Hexachlorobutadiene | 10 | | | | | R |
| 4-Chloro-3-Methylphenol | 10 | | | | | R |
| 2-Methylnaphthalene | 10 | | | | | R |
| Hexachlorocyclopentadiene | 10 | | | | | R |
| 2,4,6-Trichlorophenol | 10 | | | | | R |
| 2,4,5-Trichlorophenol | 25 | | | | | R |
| 2-Chloronaphthalene | 10 | | | | | R |
| 2-Nitroaniline | 25 | | | | | R |
| Dimethylphthalate | 10 | | | | | R |
| Acenaphthylene | 10 | | | | | R |
| 3-Nitroaniline | 25 | | | | | R |
| Acenaphthene | 10 | | | | | R |
| 2,4-Dinitrophenol | 25 | | | | | R |
| 4-Nitrophenol | 25 | | | | | R |
| Dibenzofuran | 10 | | | | | R |
| 2,4-Dinitrotoluene | 10 | | | | | R |
| 2,6-Dinitrotoluene | 10 | | | | | R |
| Diethylphthalate | 10 | | | | | R |
| 4-Chlorophenylphenylether | 10 | | | | | R |
| Fluorene | 10 | | | | | R |
| 4-Nitroaniline | 25 | | | | | R |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | R |
| N-Nitrosodiphenylamine | 10 | | | | | R |
| 4-Bromophenylphenylether | 10 | | | | | R |
| Hexachlorobenzene | 10 | | | | | R |
| Pentachlorophenol | 25 | | | | | R |
| Phenanthrene | 10 | | | | | R |
| Anthracene | 10 | | | | | R |
| Carbazole | 10 | | | | | R |
| Di-n-Butylphthalate | 10 | 10 U | | | | R |
| Fluoranthene | 10 | | | | | R |
| Pyrene | 10 | | | | | R |
| Butylbenzylphthalate | 10 | | | | | R |
| 3,3'-Dichlorobenzidine | 10 | UJ | | | | R |
| Benzo(a)anthracene | 10 | | | | | R |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 10 | | | | | R |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS - | GW-KVF5 | GW-LVF1 | GW-LVF2 | GW-LVF3 | GW-LLBRE |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S008 | S044 | S043 | S046 | S045RR |
| Remarks | | Dup. of RNS-GW-KLB | | | Dup. of RNS-GW-LVF2 | Reextraction |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| Di-n-Octyl'Di-n-Octylphthalate | 10 | | | | | R |
| Benzo(b)fluoranthene | 10 | | | | | R |
| Benzo(k)fluoranthene | 10 | | | | | R |
| Benzo(a)pyrene | 10 | | | | | R |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | R |
| Dibenz(a,h)anthracene | 10 | | | | | R |
| Benzo(g,h,i)perylene | 10 | | | | | R |
| 3,4-Dichloronitrobenzene | 10 | | | | | R |
| Diphenylsulfone | 50 | | | | | R |
| Quantitation Limit Multiplier | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Date of Sample Collection | | 10/20/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Lab | | 10/21/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/23/92 |
| Date Sample Extracted | | 10/23/92 | 10/30/92 | 10/30/92 | 10/30/92 | 12/07/92 |
| Date of Sample Analysis | | 11/03/92 | 11/06/92 | 11/06/92 | 11/06/92 | 12/10/92 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

# ROUND 1

## TENTATIVELY IDENTIFIED COMPOUNDS
## SEMIVOLATILES

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest Sa[illegible]ber | RNS GW C-S | RNS GW CUB | RNS [illegible] | RNS GW DVF3 | RNS GW D16 | RNS GW DLB | RNS GW E VF1 | RNS GW [illegible] | RNS GW E VF2 |
| Laboratory Sample Nu[illegible]er | S005 | S006 | S020 | S019 | S013 | S018 | S010 | S012 | S011 |
| Remarks | | | | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| 1,2-CYCLOHEXANEDIOL (13 27) | 4 J | 3 J | 6 J | | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 65) | 3 R | 9 R | | 3 R | | 13 R | | | |
| UNKNOWN (14 92) | | 7 J | | | | | | | |
| 1-PROPENE,1,2,3-TRICHLORO- (11 07) | | 2 J | | | | | | | |
| UNKNOWN(34 07) | | | | | 4 J | | | | |
| ALKANE (31 64) | | | | | 4 J | | | | |
| ALKANE (30 65) | | | | | 3 J | | | | |
| 4-MORPHOLINEETHANAMINE (24 88) | | | | 2 J | 3 J | | | | 2 J |
| UNKNOWN ALKANE (29.77) | | | | | 3 J | | | | |
| ALKANE (32 77) | | | | | 2 J | | | | |
| BENZENESULFONAMIDE (21.23) | | | 360 J | | | | | | |
| UNKNOWN (26 82) | | | 12 J | | | | | | |
| UNKNOWN (9 05) | | | 9 J | 3 J | | | | 2 J | |
| UNKNOWN (19.67) | | | 4 J | | | | | | |
| UNKNOWN (8.67) | | | 3 J | | | | | | |
| UNKNOWN (MWT-98) (9 72) | | | 2 J | | | | | | |
| UNKNOWN (10 72) | | | 2 J | | | | | | |
| UNKNOWN (25 13) | | | 2 J | | | | | | |
| CHLORO CYCLOHEXANOL ISOMER (12.72) | | | 2 J | | | | | | |
| BENZENESULFONAMIDE (20.92) | | | | 3 J | | | | | |
| 7-OXABICYCLO 4.1 0 HEPTANE (9.05) | | | | | | | 3 J | | |
| UNKNOWN (MWT-101) (8 60) | | | | | | | | | 6 J |
| UNKNOWN(8 63) | | | | | | | | 49 J | |
| HEPTADECANE, 2,6,10,15-TETRA (29 77) | | | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (31 62) | | | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (30 64) | | | | | | | | | |
| ETHANE, PENTACHLORO- (11 72) | | | | | | | | | |
| UNKNOWN CHLORO CYCLOHEXENE (13.55) | | | | | | | | | |
| 1-PROPENE, 1,2,3,3-TETRACHLOR (10 68) | | | | | | | | | |
| UNKNOWN (12 72) | | | | | | | | | |
| CYCLOHEXANOL, 2-BROMO, ISOMER(14 27) | | | | | | | | | |
| UNKNOWN (15 07) | | | | | | | | | |
| CYCLOHEXANE, 1,4-DI CHLORO- (13 53) | | | | | | | | | |
| CYCLOHEXANOL, 4-CHLORO,TRANS (12 70) | | | | | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 6) | | | | | | | | | |
| CARBOXYLIC ACID (26 17) | | | | | | | | | |
| ALKANE (31 67) | | | | | | | | | |

| TENTATIVELY [illegible]ENTIFIED COMPOUNDS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest San[illegible]umber | RNS GW-C-S | RNS-GW-CUB | RNS G[illegible]F2 | RNS-GW-DVF3 | RNS-GW-D16 | RNS GW DLB | RNS GW E VF1 | RNS GW-E[illegible] | RNS-GW E VF2 |
| Laboratory Sample Number | S005 | S008 | S020 | S019 | S013 | S018 | S010 | S012 | S011 |
| Remarks | | | | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| ALKANE (30 67) | | | | | | | | | |
| ALKANE (29 79) | | | | | | | | | |
| ALKANE (32 78) | | | | | | | | | |
| ALKANE (28 89) | | | | | | | | | |
| UNKNOWN (33 2) | | | | | | | | | |
| ALKANE (34 09) | | | | | | | | | |
| UNKNOWN (14 92) | | | | | | | | | |
| 1-PROPENE, 1,2,3-TRICHLORO ISOMER (11 08) | | | | | | | | | |
| UNKNOWN (13 38) | | | | | | | | | |
| UNKNOWN (MWT-99) (9 10) | | | | | | | | | |
| UNKNOWN(9 75) | | | | | | | | | |
| UNKNOWN (12 60) | | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (15 98) | | | | | | | | | |
| BENZOIC ACID (14 95) | | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (16 58) | | | | | | | | | |
| HEXANOIC ACID, 2-ETHYL- (14 13) | | | | | | | | | |
| ETHANOL, 1-(2-BUTOXYETHOXY) ISOMER (15 47) | | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (11 48) | | | | | | | | | |
| ETHANOL, 2,2'-OXYBIS (11 23) | | | | | | | | | |

TENTATIVEL ENTIFIED COMPOUNDS

| ERM Midwest Sa ber | RNS GW VF4 | RNS GW E VF5 | VF5 RA | RNS GW VF5 RE | RNS GW VF5 RR | RNS GW E VFB 103 | RNS G | RNS GW I S |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Nunwer | S022 | S014 | S014RA | S014RE | S014RR | S028 | S002 | S001 |
| Remarks | | Duplicate of RNS-GW-E-VF3 | Duplicate of RNS-GW-E-VF3 | Duplicate of RNS-GW-VF5 | Duplicate of RNS-GW-VF5 | Field Blank | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | Reanalysis | Reextraction/ Reanlaysis | Reextraction/ Reanlaysis | | | |
| 1,2-CYCLOHEXANEDIOL (13 27) | | | | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 65) | | | | | | | | |
| UNKNOWN (14 92) | | | | | | | | |
| 1-PROPENE,1,2,3-TRICHLORO- (11 07) | | | | | | | | |
| UNKNOWN(34 07) | | | | | | | | |
| ALKANE (31 64) | | | | | | | | |
| ALKANE (30 65) | | | | | | | | |
| 4-MORPHOLINEETHANAMINE (24 88) | | 2 J | | | | | | |
| UNKNOWN ALKANE (29 77) | | | | | | | | |
| ALKANE (32.77) | | | | | | | | |
| BENZENESULFONAMIDE (21 23) | | | | | | | | |
| UNKNOWN (26.82) | | | | | | | | |
| UNKNOWN (9 05) | | | | | | | | |
| UNKNOWN (19 67) | | | | | | | | |
| UNKNOWN (8 67) | | | | | | | | |
| UNKNOWN (MWT-98) (9 72) | | | | | | | | |
| UNKNOWN (10 72) | | | | | | | | |
| UNKNOWN (25 13) | | | | | | | | |
| CHLORO CYCLOHEXANOL ISOMER (12 72) | | | | | | | | |
| BENZENESULFONAMIDE (20 92) | | | | | | | | |
| 7-OXABICYCLO 4 1 0 HEPTANE (9 05) | | | | | | | | |
| UNKNOWN (MWT-101) (8 60) | | | | | | | | |
| UNKNOWN(8 63) | | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (29 77) | | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (31 62) | | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (30 64) | | | | | | | | |
| ETHANE, PENTACHLORO- (11 72) | | 27 J | 27 J | | | | | |
| UNKNOWN CHLORO CYCLOHEXENE (13 55) | | 17 R | | | | | | |
| 1-PROPENE, 1,2,3,3-TETRACHLOR (10 68) | | 16 J | 16 J | | | | | |
| UNKNOWN (12 72) | | 7 J | | | | | | |
| CYCLOHEXANOL, 2-BROMO, ISOMER(14 27) | | 5 J | 6 J | | | | | |
| UNKNOWN (15 07) | | 4 J | 4 J | | | | | |
| CYCLOHEXANE, 1,4-DI CHLORO- (13 53) | | | 16 R | | | | | |
| CYCLOHEXANOL, 4-CHLORO,TRANS (12 70) | | | 7 J | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 6) | | | | 8 R | | | 28 R | 34 R |
| CARBOXYLIC ACID (26 17) | | | | | 184 J | | | |
| ALKANE (31 67) | | | | | | | 3 J | |

TENTATIVELY IDENTIFIED COMPOUNDS

| ERM Midwest San., Number | RNS GW VF4 | RNS GW E VF6 | GW VF6 RA | RNS GW VF5 RE | RNS GW VF6 RR | RNS GW E VFB 103 | RNS GW | RNS GW I S |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S022 | S014 | S014RA | S014RE | S014RR | S028 | S002 | S001 |
| Remarks | | Duplicate of RNS-GW-E-VF3 | Duplicate of RNS-GW-E-VF3 | Duplicate of RNS-GW-VF5 | Duplicate of RNS-GW-VF5 | Field Blank | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | Reanalysis | Reextraction/ Reanlaysis | Reextraction/ Reanlaysis | | | |
| ALKANE (30 67) | | | | | | | | |
| ALKANE (29 79) | | | | | | | | |
| ALKANE (32 78) | | | | | | | | |
| ALKANE (28 89) | | | | | | | | |
| UNKNOWN (33 2) | | | | | | | | |
| ALKANE (34.09) | | | | | | | | |
| UNKNOWN (14 92) | | | | | | | | |
| 1-PROPENE, 1,2,3-TRICHLORO ISOMER (11.08) | | | | | | | | |
| UNKNOWN (13 38) | | | | | | | | |
| UNKNOWN (MWT-99) (9 10) | | | | | | | | |
| UNKNOWN(9 75) | | | | | | | | |
| UNKNOWN (12 60) | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (15.98) | | | | | | | | |
| BENZOIC ACID (14 95) | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (16 58) | | | | | | | | |
| HEXANOIC ACID, 2-ETHYL- (14 13) | | | | | | | | |
| ETHANOL, 1-(2-BUTOXYETHOXY) ISOMER (15 47) | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (11.48) | | | | | | | | |
| ETHANOL, 2,2'-OXYBIS (11 23) | | | | | | | | |

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest S. ber | RNS I-UB | RNS GW ILB | RNS | RNS GW K-VF2 | RNS GW K-VF3 | RNS GW K VF6 | RNS GW C LB |
| Laboratory Sample Number | S003 | S009 | S007 | S016 | S017 | S008 | S021 |
| Remarks | | | | | | Duplicate of RNS-GW-KLB | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| 1,2-CYCLOHEXANEDIOL (13 27) | | | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 65) | | | | | | | |
| UNKNOWN (14 92) | | | | | | | |
| 1-PROPENE,1,2,3-TRICHLORO- (11 07) | | | | | | | |
| UNKNOWN(34 07) | | | | | | | |
| ALKANE (31 64) | | | | | | | |
| ALKANE (30 65) | | | | | | | |
| 4-MORPHOLINEETHANAMINE (24 88) | | 3 J | 2 J | 3 J | 3 J | 2 J | |
| UNKNOWN ALKANE (29 77) | | | | | | | |
| ALKANE (32.77) | | | | | | | |
| BENZENESULFONAMIDE (21.23) | | | | | | | |
| UNKNOWN (26.82) | | | | | | | |
| UNKNOWN (9.05) | | | | | | | |
| UNKNOWN (19.67) | | | | | | | |
| UNKNOWN (8.67) | | 67 J | | | | | |
| UNKNOWN (MWT-98) (9 72) | | | | | | | |
| UNKNOWN (10.72) | | | | | | | |
| UNKNOWN (25 13) | | | | | | | |
| CHLORO CYCLOHEXANOL ISOMER (12 72) | | | | | | | |
| BENZENESULFONAMIDE (20.92) | | | | | | | |
| 7-OXABICYCLO 4.1 0 HEPTANE (9.05) | | | | | | | |
| UNKNOWN (MWT-101) (8.60) | | | | 19 J | 63 J | | |
| UNKNOWN(8 63) | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (29 77) | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (31 62) | | | | | | | |
| HEPTADECANE, 2,6,10,15-TETRA (30.64) | | | | | | | |
| ETHANE, PENTACHLORO- (11.72) | | | | | | | |
| UNKNOWN CHLORO CYCLOHEXENE (13 55) | | | | | | | |
| 1-PROPENE, 1,2,3,3-TETRACHLOR (10 68) | | | | | | | |
| UNKNOWN (12 72) | | | | | | | |
| CYCLOHEXANOL, 2-BROMO, ISOMER(14 27) | | | | | | | |
| UNKNOWN (15 07) | | | | | | | |
| CYCLOHEXANE, 1,4-DI CHLORO- (13 53) | | | | | | | |
| CYCLOHEXANOL, 4-CHLORO,TRANS (12 70) | | | | | | | |
| CYCLOPENTANOL, 2-METHYL- (9 6) | | | | | | | |
| CARBOXYLIC ACID (26 17) | | | | | | | |
| ALKANE (31 67) | 2 J | 5 J | | | | | |

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-LUB | RNS-GW-ILB | RNS-GW-KLB | RNS-GW-K-VF2 | RNS-GW-K-VF3 | RNS-GW-K-VF6 | RNS-GW-C-LB |
| Laboratory Sample Number | S003 | S009 | S007 | S018 | S017 | S008 | S021 |
| Remarks | | | | | | Duplicate of RNS-GW-KLB | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| ALKANE (30.67) | | 5 J | | | | | |
| ALKANE (29.79) | | 4 J | | | | | |
| ALKANE (32.78) | | 3 J | | | | | |
| ALKANE (28.89) | | 2 J | | | | | |
| UNKNOWN (33.2) | | 2 J | | | 2 J | | |
| ALKANE (34.09) | | 2 J | | | | | |
| UNKNOWN (14.92) | | | 16 J | | | | |
| 1-PROPENE, 1,2,3-TRICHLORO ISOMER (11.08) | | | 6 J | | | | |
| UNKNOWN (13.38) | | | | | 28 J | | |
| UNKNOWN (MWT-99) (9.10) | | | | | 27 J | | |
| UNKNOWN(9.75) | | | | | 8 J | | |
| UNKNOWN (12.60) | | | | | | | 7 J |
| UNKNOWN CARBOXYLIC ACID (15.98) | | | | | | | 4 J |
| BENZOIC ACID (14.95) | | | | | | | 4 J |
| UNKNOWN CARBOXYLIC ACID (16.58) | | | | | | | 3 J |
| HEXANOIC ACID, 2-ETHYL- (14.13) | | | | | | | 3 J |
| ETHANOL, 1-(2-BUTOXYETHOXY) ISOMER (15.47) | | | | | | | 3 J |
| UNKNOWN CARBOXYLIC ACID (11.48) | | | | | | | 3 J |
| ETHANOL, 2,2'-OXYBIS (11.23) | | | | | | | 2 J |

EXTRACTABI RGANIC ANALYSIS

| ERM MW Sample<br>Laboratory Sample Number | RNS GW E LB<br>S026 | RNS GW E LBDL<br>S026D | RNS GI<br>S026RR | RNS GW F VF3<br>S027 | RNS GW H UB<br>S029 | RNS GW HS<br>S030 | RNS GW H VF1<br>S031 | RNS GW F I<br>S032RR | NS GW FLB<br>S033 |
|---|---|---|---|---|---|---|---|---|---|
| Remarks | | Dilution | Reextraction | | | | | Reextraction | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNKNOWN (12.63) | 8 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARB (31 67) | 5 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARB (29 79) | 5 J | | | | | | | | |
| BENZENESULFONAMIDE (20 95) | 5 J | | | | | | | | |
| UNKNOWN (17 72) | 4 J | | | | | | | | |
| UNKNOWN PTHALATE (30 90) | 3 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (30 65) | 5 J | | | | | | | | |
| 4-MORPHOLINEETHANAMINE (24 88) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (32 78) | 3 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (9 07) | 3 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (28 90) | 3 J | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (34.10) | 2 J | | | | | | | | |
| UNKNOWN (9 02) | | | 8 J | | | | | 13 R | |
| 1,2-CYCLOHEXANEDIOL (13 22) | | | 3 J | | | | | | |
| UNKNOWN (12.67) | | | 3 J | | | | | 8 R | |
| PROPANOIC ACID, 2-METHYL-,1 (21.43) | | | 2 J | | | | | | |
| BENEZENESULFONAMIDE (21 00) | | | | 27 J | 5 J | | | | |
| UNKNOWN (8 72) | | | | | | | | 10 J | |
| UNKNOWN ALCOHOL(9.67) | | | | | | | | 2 J | |
| UNKNOWN CARBOXYLIC ACID (16.6) | | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (15.02) | | | | | | | | | |
| UNKNOWN (33.22) | | | | | | | | | |
| BENZENESULFONAMIDE (21.47) | | | | | | | | | |
| BENZENESULFONAMIDE, CHLORO- (23 13) | | | | | | | | | |
| UNKNOWN (17.38) | | | | | | | | | |
| UNKNOWN ALIPHATIC (9 03) | | | | | | | | | |
| ALKYL-CYCLOALKANE (14.90) | | | | | | | | | |
| UNKNOWN (20 80) | | | | | | | | | |
| UNKNOWN ALIPHATIC ALCOHOL (15 45) | | | | | | | | | |
| BENZENESULFONAMIDE (21.88) | | | | | | | | | |
| CHLOROSULFONATED BENZENE (23 27) | | | | | | | | | |
| ALKYLOXY BENZENE (16 27) | | | | | | | | | |
| CHLOROSULFONATED BENZENE (18 78) | | | | | | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 20) | | | | | | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 53) | | | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (20 63) | | | | | | | | | |

EXTRACTABI 'RGANIC ANALYSIS

| ERM-MW Sample Number<br>Laboratory Sample Number | RNS-GW-E-LB<br>S026 | RNS-GW-E-LBDL<br>S025D | RNS-GW-[illegible]4RE<br>S026RR | RNS-GW-F-VF3<br>S027 | RNS-GW-H-UB<br>S029 | RNS-GW-HS<br>S030 | RNS-GW-H-VF1<br>S031 | RNS-GW-F-VF6[illegible]<br>S032RR | RNS-GW-FLB<br>S033 |
|---|---|---|---|---|---|---|---|---|---|
| Remarks | | Dilution | Reextraction | | | | | Reextraction | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNKNOWN (15.38) | | | | | | | | | |
| UNKNOWN PAH (25.99) | | | | | | | | | |
| UNKNOWN BENZOIC ACID, BROMO- (19.07) | | | | | | | | | |
| UNKNOWN (19.82) | | | | | | | | | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.04) | | | | | | | | | |
| UNKNOWN (16.38) | | | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (23.08) | | | | | | | | | |
| PHENOL, CHLORO- ISOMER (15.53) | | | | | | | | | |
| UNKNOWN HYDROCARBON (31.60) | | | | | | | | | |
| CYCLOPENTANOL, METHYL- (9.62) | | | | | | | | | |
| UNKNOWN HYDROCARBON (9.03) | | | | | | | | | |
| UNKNOWN CYCLOHEXANOL (12.67) | | | | | | | | | |
| UNKNOWN CYCLOPENTANOL (9.63) | | | | | | | | | |
| DOCOSANE (32.72) | | | | | | | | | |
| ALCOHOL (8.60) | | | | | | | | 7 J | |

EXTRACTAB' 'RGANIC ANALYSIS

| ERM-MW Sample | RNS-GW D10 | RNS-GW AUB | RNS | RNS GW AVF1 | RNS-GW-BS | RNS GW BSDL | RNS GW D1 | RNS GW ' | RNS GW S9 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Num... | S034 | S03R | S03/ | S038 | S039 | S039D | S040 | S041 | S042 |
| Remarks | | | | Duplicate of RNS-GW-AUB | | Dilution | | Field Blank | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNI'ICWN (12 63) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARB (31.67) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARB (29 79) | | | | | | | | | |
| BENZENESULFONAMIDE (20 95) | | | | | | 3000 J | | | |
| UNKNOWN (17 72) | | | | | | | | | |
| UNKNOWN PTHALATE (30 90) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (30 65) | | | | | | | | | |
| 4-MORPHOLINEETHANAMINE (24 88) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (32 78) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (9.07) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (28.90) | | | | | | | | | |
| UNKNOWN SATURATED HYDROCARBON (34 10) | | | | | | | | | |
| UNKNOWN (9.02) | | | | | | | | | |
| 1,2-CYCLOHEXANEDIOL (13.22) | | | | | | | | | |
| UNKNOWN (12.67) | | | | | | | | | |
| PROPANOIC ACID, 2-METHYL-,1 (21.43) | | | | | | | | | |
| BENEZENESULFONAMIDE (21 00) | | 270 J | | | | | 23 J | | |
| UNKNOWN (8.72) | | | | | | | | | |
| UNKNOWN ALCOHOL(9.67) | | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (16.6) | 7 J | | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (15.02) | 4 J | | | | | | | | |
| UNKNOWN (33.22) | 4 R | | | | | | 3 R | 5 J | |
| BENZENESULFONAMIDE (21.47) | | | 910 J | 400 J | | | | | |
| BENZENESULFONAMIDE, CHLORO- (23.13) | | | 4 J | | | | | | |
| UNKNOWN (17.38) | | | 3 J | | | | | | |
| UNKNOWN ALIPHATIC (9 03) | | | 3 R | | | | | | |
| ALKYL-CYCLOALKANE (14.90) | | | 3 J | | | | | | |
| UNKNOWN (20 80) | | | | 3 J | | | | | |
| UNKNOWN ALIPHATIC ALCOHOL (15 45) | | | | 3 J | | | | | |
| BENZENESULFONAMIDE (21.88) | | | | | 1700 J | | | | |
| CHLOROSULFONATED BENZENE (23.27) | | | | | 45 J | | | | |
| ALKYLOXY BENZENE (16 27) | | | | | 16 J | | | | |
| CHLOROSULFONATED BENZENE (18 78) | | | | | 11 J | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 20) | | | | | 9 J | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 53) | | | | | 5 J | | | | |
| UNKNOWN SUBSTITUTED BENZENE (20 63) | | | | | 5 J | | | | |

EXTRACTAB' 'RGANIC ANALYSIS

| ERM-MW Sample Number<br>Laboratory Sample Number | RNS-GW-D10<br>S034 | RNS-GW-AUB<br>S036 | RNS-G.. .S<br>S037 | RNS-GW-AVF1<br>S038 | RNS-GW-BS<br>S039 | RNS-GW-BSDL<br>S039D | RNS-GW-D1<br>S040 | RNS-GW-D1..4<br>S041 | RNS-GW-S9<br>S042 |
|---|---|---|---|---|---|---|---|---|---|
| Remarks | | | | Duplicate of RNS-GW-AUB | | Dilution | | Field Blank | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNKNOWN (15.38) | | | | | 4 J | | | | |
| UNKNOWN PAH (25.99) | | | | | 3 J | | | | |
| UNKNOWN BENZOIC ACID, BROMO- (19.07) | | | | | 3 J | | | | |
| UNKNOWN (19.82) | | | | | 3 J | | | | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.04) | | | | | 2 J | | | | |
| UNKNOWN (16.38) | | | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (23.08) | | | | | 2 J | | | | |
| PHENOL, CHLORO- ISOMER (15.53) | | | | | 2 J | | | | |
| UNKNOWN HYDROCARBON (31.60) | | | | | | | | | |
| CYCLOPENTANOL, METHYL- (9.62) | | | | | | | | | |
| UNKNOWN HYDROCARBON (9.03) | | | | | | | | | |
| UNKNOWN CYCLOHEXANOL (12.67) | | | | | | | | | |
| UNKNOWN CYCLOPENTANOL (9.63) | | | | | | | | | |
| DOCOSANE (32.72) | | | | | | | | | |
| ALCOHOL (8.60) | | | | | | | | | |

| EXTRACTAB GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM MW Sample. Laboratory Sample Number | RNS GW L VF2 S043 | RNS GW-L-VF1 S044 | RNS G S045RR | RNS GW-L-VF3 S046 | RNS GW J-LB S048 |
| Remarks | | | Reextraction | Duplicate of RNS-GW-L-VF2 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | |
| UNKNOWN (12 63) | | | | | |
| UNKNOWN SATURATED HYDROCARB (31 67) | | | | 3 J | |
| UNKNOWN SATURATED HYDROCARB (29 79) | | | | 3 J | |
| BENZENESULFONAMIDE (20 95) | | | | 130 J | |
| UNKNOWN (17 72) | | | | | |
| UNKNOWN PTHALATE (30 90) | | | | | |
| UNKNOWN SATURATED HYDROCARBON (30 65) | 2 J | | | 3 J | |
| 4-MORPHOLINEETHANAMINE (24 88) | | | | | |
| UNKNOWN SATURATED HYDROCARBON (32.78) | | | | | |
| UNKNOWN SATURATED HYDROCARBON (9 07) | | | | | |
| UNKNOWN SATURATED HYDROCARBON (28 90) | | | | | |
| UNKNOWN SATURATED HYDROCARBON (34 10) | | | | | |
| UNKNOWN (9.02) | | | | | 3 R |
| 1,2-CYCLOHEXANEDIOL (13 22) | | | 2 J | | |
| UNKNOWN (12 67) | | | | | |
| PROPANOIC ACID, 2-METHYL-,1 (21 43) | | | | | |
| BENEZENESULFONAMIDE (21 00) | 120 J | | | | |
| UNKNOWN (8.72) | | | | | |
| UNKNOWN ALCOHOL(9.67) | | | | | |
| UNKNOWN CARBOXYLIC ACID (16.6) | | | | | |
| UNKNOWN CARBOXYLIC ACID (15.02) | | | | | |
| UNKNOWN (33 22) | | | | | |
| BENZENESULFONAMIDE (21.47) | | | | | |
| BENZENESULFONAMIDE, CHLORO- (23 13) | | | | | |
| UNKNOWN (17.38) | | | | | |
| UNKNOWN ALIPHATIC (9.03) | | | | | |
| ALKYL-CYCLOALKANE (14 90) | | | | | |
| UNKNOWN (20.80) | | | | | |
| UNKNOWN ALIPHATIC ALCOHOL (15.45) | | | | | |
| BENZENESULFONAMIDE (21.88) | | | | | |
| CHLOROSULFONATED BENZENE (23 27) | | | | | |
| ALKYLOXY BENZENE (16 27) | | | | | |
| CHLOROSULFONATED BENZENE (18 78) | | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 20) | | | | | |
| UNKNOWN BENZOIC ACID, BROMO (19 53) | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (20 63) | | | | | |

| EXTRACTAB' 'RGANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-MW Sample N...ber<br>Laboratory Sample Number | RNS GW-L-VF2<br>S043 | RNS GW-L-VF1<br>S044 | RNS GW-L-LBRE<br>S045RR | RNS GW-L-VF3<br>S046 | RNS GW-J-LB<br>S048 |
| Remarks | | | Reextraction | Duplicate of RNS-GW-L-VF2 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | |
| UNKNOWN (15.38) | | | | | |
| UNKNOWN PAH (25 99) | | | | | |
| UNKNOWN BENZOIC ACID, BROMO- (19 07) | | | | | |
| UNKNOWN (19.82) | | | | | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.04) | | | | | |
| UNKNOWN (16 38) | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (23 08) | | | | | |
| PHENOL, CHLORO- ISOMER (15.53) | | | | | |
| UNKNOWN HYDROCARBON (31.60) | 2 J | | | | |
| CYCLOPENTANOL, METHYL- (9.62) | 4 J | 10 J | | | |
| UNKNOWN HYDROCARBON (9.03) | | 2 R | | | |
| UNKNOWN CYCLOHEXANOL (12.67) | | | 5 R | | |
| UNKNOWN CYCLOPENTANOL (9.63) | | | | 8 J | |
| DOCOSANE (32.72) | | | | 2 J | |
| ALCOHOL (8.60) | | | | | 2 R |

| EXTRACTABL[illegible]RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sa[illegible]ber | RNS GW J VF2 | RNS GW J VF3 | W J VF4 | RNS GW S 1 | RNS GW D5 | RNS GW S11 | RN[illegible] DL |
| Laboratory Sample Number | S051 | S052 | S053 | S054 | S056 | S058 | [illegible] |
| Remarks | | | | | | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (30.65) | | 7 J | 4 J | 6 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (29 77) | | 6 J | 4 J | 5 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (31 64) | | 6 J | 4 J | 6 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32.75) | | 4 J | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (28 89) | | 3 J | | 3 J | | | |
| UNKNOWN HYDROCARBON (9 08) | | 5 R | 10 R | | | 2 R | |
| UNKNOWN CYCLIC ALCOHOL (9 67) | | 3 J | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | 2 J | | | | | |
| BENZENESULFONAMIDE (21 03) | 31 J | 23 J | 44 J | | | 120 J | 100 J |
| UNKNOWN CYCLOHEXANOL (13.30) | | | 13 J | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (12 73) | | | 4 J | | | | |
| UNKNOWN CYCLOHEXANOL (9 73) | | | 3 J | | | | |
| UNKNOWN (8 62) | | | 3 R | 4 R | | | |
| UNKNOWN (26.84) | | | 3 J | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (32 77) | | | 2 J | 4 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (28.89) | | | 2 J | | | | |
| UNKNOWN (10 73) | | | 2 J | | | | |
| UNKNOWN CYCLOHEXANDIOL (13 28) | | | | 6 J | | | |
| UNKNOWN (15 02) | | | | 4 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | | | 3 J | | | |
| UNKNOWN AROMATIC HYDROCARBON (21 13) | | | | | | 180 J | |
| UNKNOWN METHOXYETHYL AROMATIC (16 33) | | | | | | 120 J | 80 J |
| UNKNOWN BIPHENYL (27.09) | | | | | | 15 J | |
| UNKNOWN BENZENEAMINE, FLUORO (13 05) | | | | | | 10 J | |
| UNKNOWN ALIPHATIC HYDROCARB (23 47) | | | | | | 9 J | |
| UNKNOWN SULFONATED AROMATIC (26 85) | | | | | | 7 J | |
| UNKNOWN AROMATIC AMINE (18.30) | | | | | | 6 J | |
| BENZENESULFONAMIDE, 4-CHLORO (23 25) | | | | | | 5 J | |
| UNKNOWN AROMATIC (25 03) | | | | | | 4 J | |
| AMINO PHENYL ETHANONE ISOMER (20 22) | | | | | | 3 J | |
| UNKNOWN CYCLOPENTANOL (9 67) | | | | | | 3 J | |
| UNKNOWN AROMATIC (20 82) | | | | | | 2 J | 40 J |
| UNKNOWN AROMATIC (28 02) | | | | | | 2 J | |
| UNKNOWN ALIPHATIC HYDROCARB (8 87) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (16.98) | | | | | | | |
| UNKNOWN ALIPHATIC AMINE (10 35) | | | | | | | |
| UNKNOWN ALIPHATIC ACID (9 62) | | | | | | | |

EXTRACTABLI 'GANIC ANALYSIS

| ERM-Midwest Sample number | RNS GW-J-VF2 | RNS-GW-J-VF3 | GW-J-VF4 | RNS-GW S-1 | RNS-GW D5 | RNS GW S11 | RNS-G I-DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S051 | S052 | S053 | S054 | S056 | S058 | S058D |
| Remarks | | | | | | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON(16 13) | | | | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.08) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (25.57) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (15 6) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (11.55) | | | | | | | |
| UNKNOWN CYCLIC HYDROCARB (14.95) | | | | | | | |
| UNKNOWN CHLORINATED ALKYL(11.10) | | | | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (11.77) | | | | | | | |
| BENZENESULFONAMIDE, CHLORO (23.27) | | | | | | | |
| UNKNOWN AROMATIC AMINE (22.17) | | | | | | | |
| METHANONE, DIPHENYL- (22.17) | | | | | | | |
| UNKNOWN (27.22) | | | | | | | |
| BENZENEAMINE, TRIFLUORO (11.73) | | | | | | | |
| UNKNOWN BENZENE, SULFONYL- (18 78) | | | | | | | |
| UNKNOWN CHLORINATED BIPHENYL (26 70) | | | | | | | |
| UNKNOWN SUBSTITUTED BIPHENYL (27 07)) | | | | | | | |
| UNKNOWN BENZ ACID SUB (25 13) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (35 53) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39 55) | | | | | | | |
| BENZENE (METHYLSULFONYL) (18.78) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (34.00) | | | | | | | |
| UNKNOWN (27.22) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (12.72) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32.70) | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (14.95) | | | | | | | |
| CYCLOHEXANE, DICHLORO- (13.55) | | | | | | | |

| EXTRACTABL[illegible] GANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest S[illegible] [illegible]er | RNS GW S10 | RNS GW D4 | GW S4 | RNS GW D 3 | RNS GW S 3 | RNS GW D 18 | [illegible] 4 |
| Laboratory Sample [illegible] | S059 | S060 | S061 | S062 | S063 | S064 | [illegible] |
| Remarks | | | | | | Duplicate of RNS-GW-D-3 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (30 65) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (29 77) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (31 64) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32 75) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (28 89) | | | | | | | |
| UNKNOWN HYDROCARBON (9 08) | | 9 R | | | | 5 R | 3 R |
| UNKNOWN CYCLIC ALCOHOL (9.67) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | | | | | | |
| BENZENESULFONAMIDE (21.03) | 120 J | | | 1500 J | | 2700 J | 530 J |
| UNKNOWN CYCLOHEXANOL (13.30) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (12.73) | | | | | | | |
| UNKNOWN CYCLOHEXANOL (9.73) | | | | | | | |
| UNKNOWN (8 62) | | 300 J | | | | | |
| UNKNOWN (26.84) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (32 77) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (28 89) | | | | | | | |
| UNKNOWN (10 73) | | | | | | | |
| UNKNOWN CYCLOHEXANDIOL (13 28) | | | | | | | |
| UNKNOWN (15 02) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | | | | | | |
| UNKNOWN AROMATIC HYDROCARBON (21.13) | | | | | | | |
| UNKNOWN METHOXYETHYL AROMATIC (16.33) | | | | 2 J | | 3 J | |
| UNKNOWN BIPHENYL (27 09) | | | | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (13 05) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (23.47) | | | | | | | |
| UNKNOWN SULFONATED AROMATIC (26 85) | | | | | | | |
| UNKNOWN AROMATIC AMINE (18.30) | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 25) | | | | | | | |
| UNKNOWN AROMATIC (25.03) | | | | | | | |
| AMINO PHENYL ETHANONE ISOMER (20.22) | | | | | | | |
| UNKNOWN CYCLOPENTANOL (9 67) | | | | | | | |
| UNKNOWN AROMATIC (20 82) | | | | | | | |
| UNKNOWN AROMATIC (28 02) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (8 87) | | 7 J | | | | | |
| UNKNOWN CARBOXYLIC ACID (16 98) | | 6 J | | | | | |
| UNKNOWN ALIPHATIC AMINE (10 35) | | 4 J | | | | | |
| UNKNOWN ALIPHATIC ACID (9.62) | | 3 J | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS GW S10 | RNS-GW-D4 | S-GW-S4 | RNS GW D 3 | RNS GW S 3 | RNS GW D 18 | RNS-[illegible]14 |
| Laboratory Sample Number | S059 | S060 | S061 | S062 | S063 | S064 | S066 |
| Remarks | | | | | | Duplicate of RNS-GW-D-3 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON(16.13) | | 3 J | | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.08) | | | | 7 J | | 4 J | |
| UNKNOWN CARBOXYLIC ACID (25.57) | | | | 4 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (15.6) | | | | 2 J | | | |
| UNKNOWN CARBOXYLIC ACID (11.55) | | | | | | | 3 J |
| UNKNOWN CYCLIC HYDROCARB (14.95) | | | | | | | |
| UNKNOWN CHLORINATED ALKYL(11.10) | | | | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (11.77) | | | | | | | |
| BENZENESULFONAMIDE, CHLORO (23.27) | | | | | | | |
| UNKNOWN AROMATIC AMINE (22.17) | | | | | | | |
| METHANONE, DIPHENYL- (22.17) | | | | | | | |
| UNKNOWN (27.22) | | | | | | | |
| BENZENEAMINE, TRIFLUORO (11.73) | | | | | | | |
| UNKNOWN BENZENE, SULFONYL- (18.78) | | | | | | | |
| UNKNOWN CHLORINATED BIPHENYL (26.70) | | | | | | | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.07)) | | | | | | | |
| UNKNOWN BENZ ACID SUB (25.13) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (35.53) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.55) | | | | | | | |
| BENZENE (METHYLSULFONYL) (18.78) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (34.00) | | | | | | | |
| UNKNOWN (27.22) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (12.72) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32.70) | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (14.95) | | | | | | | |
| CYCLOHEXANE, DICHLORO- (13.55) | | | | | | | |

EXTRACTABI[illegible]GANIC ANALYSIS

| ERM Midwest S[illegible]ber<br>Laboratory Sample [illegible] | RNS GW D7<br>S067 | RNS GW D7DL<br>S067D | GW D9<br>S070 | RNS GW S16<br>S071 | RNS GW S16 105<br>S072 | RNS GW S17<br>S073 | R[illegible]DL<br>[illegible] |
|---|---|---|---|---|---|---|---|
| Remarks | | Dilution | | | Field Blank | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (30 65) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (29 77) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (31 64) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32 75) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (28 89) | | | | | | | |
| UNKNOWN HYDROCARBON (9 08) | 5 R | 5 R | 5 R | 4 R | 7 J | | |
| UNKNOWN CYCLIC ALCOHOL (9 67) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | | | | | | |
| BENZENESULFONAMIDE (21.03) | 560 J | 680 J | 5 R | 1300 J | | 1400 J | 1500 J |
| UNKNOWN CYCLOHEXANOL (13 30) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (12 73) | | | | | | | |
| UNKNOWN CYCLOHEXANOL (9.73) | | | | | | | |
| UNKNOWN (8.62) | 9 R | 9 R | | | | | |
| UNKNOWN (26.84) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (32.77) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (28 89) | | | | | | | |
| UNKNOWN (10.73) | | | | | | | |
| UNKNOWN CYCLOHEXANDIOL (13 28) | | | | | | | |
| UNKNOWN (15 02) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34.07) | | | | | | | |
| UNKNOWN AROMATIC HYDROCARBON (21.13) | | | | | | | |
| UNKNOWN METHOXYETHYL AROMATIC (16 33) | 17 J | 17 J | | | | 86 J | 110 J |
| UNKNOWN BIPHENYL (27.09) | | | | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (13 05) | 13 J | 14 J | | 120 J | | | 54 J |
| UNKNOWN ALIPHATIC HYDROCARB (23.47) | | | | | | | |
| UNKNOWN SULFONATED AROMATIC (26.85) | | | | | | | |
| UNKNOWN AROMATIC AMINE (18.30) | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23.25) | | | | | | | |
| UNKNOWN AROMATIC (25.03) | | | | | | | |
| AMINO PHENYL ETHANONE ISOMER (20.22) | | | | | | | |
| UNKNOWN CYCLOPENTANOL (9 67) | | | | | | | |
| UNKNOWN AROMATIC (20 82) | | | | | | | |
| UNKNOWN AROMATIC (28 02) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (8.87) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (16 98) | 3 J | | | | | | |
| UNKNOWN ALIPHATIC AMINE (10 35) | | | | | | | |
| UNKNOWN ALIPHATIC ACID (9 62) | | | | | | | |

| EXTRACTABL[illegible]RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sampl[illegible]umber<br>Laboratory Sample Number | RNS GW-D7<br>S067 | RNS-GW-D7DL<br>S067D | [illegible]S-GW-D9<br>S070 | RNS GW-S16<br>S071 | RNS-GW-S16-105<br>S072 | RNS GW-S17<br>S073 | RNS-L[illegible]7DL<br>S073D |
| Remarks | | Dilution | | | Field Blank | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON(16.13) | | | | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.08) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (25.57) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (15.6) | | | | | | | |
| UNKNOWN CARBOXYLIC ACID (11.55) | | | | | | | |
| UNKNOWN CYCLIC HYDROCARB (14.95) | 3 J | | | | | | |
| UNKNOWN CHLORINATED ALKYL(11.10) | 3 J | | | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (11.77) | | | | 23 J | | | |
| BENZENESULFONAMIDE, CHLORO (23.27) | | | | 5 J | | 2 J | |
| UNKNOWN AROMATIC AMINE (22.17) | | | | 3 J | | | |
| METHANONE, DIPHENYL- (22.17) | | | | | | 4 J | |
| UNKNOWN (27.22) | | | | | | 3 J | |
| BENZENEAMINE, TRIFLUORO (11.73) | | | | | | 2 J | |
| UNKNOWN BENZENE, SULFONYL- (18.78) | | | | | | 2 J | |
| UNKNOWN CHLORINATED BIPHENYL (26.70) | | | | | | 15 J | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.07)) | | | | | | 3 J | |
| UNKNOWN BENZ ACID SUB (25.13) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (35.53) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.55) | | | | | | | |
| BENZENE (METHYLSULFONYL) (18.78) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (34.00) | | | | | | | |
| UNKNOWN (27.22) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (12.72) | | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32.70) | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (14.95) | | | | | | | |
| CYCLOHEXANE, DICHLORO- (13.55) | | | | | | | |

| EXTRACTAB | GANIC ANALYSIS | | | |
|---|---|---|---|---|
| ERM-Midwest Sa. ber | RNS GW-D8 | RNS-GW-D8DL | GW-S20 | RNS GW-S20DL |
| Laboratory Sample Number | S074 | S074D | S076 | S076D |
| Remarks | | Dilution | Duplicate of RNS-GW-S17 | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (30 65) | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (29.77) | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (31.64) | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32 75) | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (28 89) | | | | |
| UNKNOWN HYDROCARBON (9.08) | | | 3 R | |
| UNKNOWN CYCLIC ALCOHOL (9 67) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34 07) | | | | |
| BENZENESULFONAMIDE (21.03) | 1700 J | 2000 J | 3000 J | 1700 J |
| UNKNOWN CYCLOHEXANOL (13 30) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (12.73) | | | | |
| UNKNOWN CYCLOHEXANOL (9.73) | 2 J | | | |
| UNKNOWN (8.62) | | | | |
| UNKNOWN (26.84) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (32 77) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (28.89) | | | | |
| UNKNOWN (10 73) | | | | |
| UNKNOWN CYCLOHEXANDIOL (13 28) | 3 J | | | |
| UNKNOWN (15.02) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (34.07) | | | | |
| UNKNOWN AROMATIC HYDROCARBON (21 13) | | | | |
| UNKNOWN METHOXYETHYL AROMATIC (16 33) | 85 J | 100 J | 89 J | 100 J |
| UNKNOWN BIPHENYL (27.09) | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (13 05) | 57 J | 66 J | | 52 J |
| UNKNOWN ALIPHATIC HYDROCARB (23.47) | | | | |
| UNKNOWN SULFONATED AROMATIC (26.85) | | | | |
| UNKNOWN AROMATIC AMINE (18 30) | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 25) | | | | |
| UNKNOWN AROMATIC (25 03) | | | | |
| AMINO PHENYL ETHANONE ISOMER (20 22) | | | | |
| UNKNOWN CYCLOPENTANOL (9 67) | | | | |
| UNKNOWN AROMATIC (20 82) | | | | |
| UNKNOWN AROMATIC (28 02) | | | | |
| UNKNOWN ALIPHATIC HYDROCARB (8 87) | 13 R | | | |
| UNKNOWN CARBOXYLIC ACID (16 98) | 2 J | | | |
| UNKNOWN ALIPHATIC AMINE (10.35) | | | | |
| UNKNOWN ALIPHATIC ACID (9.62) | | | | |

| EXTRACTABL' RGANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS GW-D8 | RNS GW-D8DL | GW-S20 | RNS GW-S20DL |
| Laboratory Sample Number | S074 | S074D | S075 | S075D |
| Remarks | | Dilution | Duplicate of RNS-GW-S17 | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON(16 13) | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.08) | | | | |
| UNKNOWN CARBOXYLIC ACID (25.57) | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (15.6) | | | | |
| UNKNOWN CARBOXYLIC ACID (11.55) | | | | |
| UNKNOWN CYCLIC HYDROCARB (14.95) | | | | |
| UNKNOWN CHLORINATED ALKYL(11.10) | | | | |
| UNKNOWN BENZENEAMINE, FLUORO (11.77) | 3 J | | | |
| BENZENESULFONAMIDE, CHLORO (23.27) | 4 J | | 2 J | |
| UNKNOWN AROMATIC AMINE (22.17) | | | | |
| METHANONE, DIPHENYL- (22 17) | 4 J | | 5 J | |
| UNKNOWN (27.22) | | | 2 J | |
| BENZENEAMINE, TRIFLUORO (11.73) | | | 3 J | |
| UNKNOWN BENZENE, SULFONYL- (18.78) | | | 3 J | |
| UNKNOWN CHLORINATED BIPHENYL (26.70) | 9 J | | 16 J | |
| UNKNOWN SUBSTITUTED BIPHENYL (27.07)) | | | 4 J | |
| UNKNOWN BENZ ACID SUB (25.13) | 4 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (35.53) | 4 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.55) | 3 J | | | |
| BENZENE (METHYLSULFONYL) (18.78) | 3 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (34.00) | 3 J | | | |
| UNKNOWN (27.22) | 3 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (12 72) | 3 J | | | |
| UNKNOWN ALIPHATIC HYDROCARB (32.70) | 2 J | | | |
| UNKNOWN SUBSTITUTED BENZENE (14.95) | | | 4 J | |
| CYCLOHEXANE, DICHLORO- (13.55) | | | 2 R | |

| TENTATIVEL NTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest . Number | RNS- 3 | RNS-GW-S13DL | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-D1 | RNS-GW-D19 |
| Laboratory Sampl. Number | S076 | S076D | S077 | S077RE | S078 | S079 |
| Remarks | | | | | | Duplicate of RNS GW D14 |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Reextraction | | |
| BENZOIC ACID (15.55) | | 4400 R | | | | |
| BENZENESULFONAMIDE (21.17) | | 1600 JN | | | 33 JN | 29 JN |
| METHOXYBENZENE ISOMER (16.28) | | 200 J | | | | |
| BROMOBENZOIC ACID ISOMER(19.25) | | 190 J | | | | |
| UNKNOWN ALKOXY BIPHENYL (27.04) | | 130 J | | | | |
| CHLOROBENZENESULFONAMIDE (23.15) | | 98 J | 23 JN | 24 J | | |
| ETHANONE, 1-PHENYL- (13.45) | 21 JN | 31 JN | | | | |
| UNKNOWN BENZENE ALKANOL (17.42) | 10 J | 30 J | | | | |
| BROMOBENZOIC ACID ISOMER (19.57) | 64 J | 25 J | | | | |
| BENZENESULFONAMIDE (21.97) | 310 JN | | 2300 JN | 1600 JN | | |
| BENZENE, METHOXY ISOMER (16.28) | 1800 J | | 10 J | | | |
| BENZENE, SULFONYL, UNKNOWN (22.15) | | | 5 J | | | |
| ALKOXYBENZENE ISOMER (36.19) | | | 5 J | | | |
| BENZENESULFONAMIDE DERIVATIVE (18.80) | 4 J | | 4 J | | | |
| BENZENESULFONIC ACID UNKNOWN (22.62) | | | 4 J | | | |
| UNKNOWN (17.02) | | | 3 J | | | |
| BENZENESULFONAMIDE-N-(PHENYLSULFONYL) (30.57) | | | | 150 J | | |
| UNKNOWN (26.24) | 4 J | | | 45 J | | |
| METHOXYBENZENE ISOMER (16.25) | | | | 17 J | | |
| UNKNOWN (17.17) | | | | 14 J | | |
| UNKNOWN CYCLOHEXANE (19.98) | | | | 10 J | | |
| BENZENESULFONAMIDE DERIVATIVE (22.15) | | | | 9 J | | |
| BENZOIC ACID (15.02) | | | | 8 R | 3 R | |
| DECANOIC ACID (25.48) | | | | 8 J | | |
| UNKNOWN SULFONYLBENZENE DERIVATIVE(18.77) | | | | 7 J | | |
| UNKNOWN BENZENEDIOL DERIVATIVE(16.68) | | | | 6 J | | |
| UNKNOWN (20.48) | | | | 5 J | | |
| UNKNOWN (25.05) | | | | 3 J | | |
| BENZENESULFONAMIDE, METHYL (22.63) | | | | 5 J | | |
| UNKNOWN (16.00) | | | | 3 J | | |
| UNKNOWN (19.37) | | | | 2 J | | |
| UNKNOWN (27.65) | | | | 2 J | | |
| UNKNOWN ALIPHATIC (13.55) | 2 J | | | | 4 R | |
| 7-OXABICYCLO 4.1.0 HEPTANE (9.07) | | | | | 4 R | 6 R |
| UNKNOWN CYCLIC ALIPHATIC (13.55) | | | | | | 7 R |
| CARBOXYLIC ACID (16.63) | 5 J | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.78) | | | | | | |
| UNKNOWN METHOXY BENZENE (16.28) | | | | | | |
| UNKNOWN CYCLOHEXANE (13.55) | | | | | | |
| MIX BENZENESULFONAMIDE + UNK (21.15) | | | | | | |
| BUTOXYBIPHENYL ISOMER (26.72) | | | | | | |
| CHLOROMETHYL BENZENEMETHANOL ISOMER (17.43) | | | | | | |
| BIPHENYL- OL ISOMER(20.63) | 3 J | | | | | |
| UNKNOWN AROMATIC (26.89) | | | | | | |
| BENZOIC ACID UNK (25.17) | | | | | | |
| POSS. PHENYL/NAPHTHYLAMINE(22.13) | | | | | | |

| TENTATIVEL' ENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest . ,le Number | RNS-( ,13 | RNS-GW-S13DL | RNS-GW-S2 | RNS GW-S2RE | RNS-GW-D14 | RNS-GW-D19 |
| Laboratory Sample Number | S076 | S076D | S077 | S077RE | S078 | S079 |
| Remarks | | | | | | Duplicate of RNS GW D14 |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Reextraction | | |
| BUTOXY BIPHENYL ISOMER (27.07) | 5 J | | | | | |
| UNKNOWN (14.17) | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.57) | | | | | | |
| UN..OWN CYCLOHEXANOL (9.72) | | | | | | |
| UNK'OWN ALIPHATIC (35.55) | | | | | | |
| ALIPHATIC HYDROCARBON (42.24) | | | | | | |
| UNKNOWN KETONE(10.73) | | | | | | |
| UNKNOWN KETONE (9.88) | | | | | | |
| UNKNOWN (23.40) | | | | | | |
| ALIPHATIC HYDROCARBON (29.32) | | | | | | |
| 1,2,3,4,5,7,7-HEPTACHLOR-BICYCLO[2.2.1] HEPT-2-ENE (32.78) | | | | | | |
| UNKNOWN (22.13) | | | | | | |
| UNKNOWN IMIDAZOLIDINE (17.02) | | | | | | |
| UNKNOWN BENZOYLMORPHOLINE (23.03) | | | | | | |
| SATURATED HYDROCARBON (31.60) | | | | | | |
| BENZENEMETHANOL DERIVATIVE(16.50) | | | | | | |
| SULFUR, MOL. (S8) (26.52) | | | | | | |
| UNKNOWN (26.70) | | | | | | |
| UNKNOWN (9.03) | | | | | | |
| UNKNOWN METHOXYBENZENE (16.27) | | | | | | |
| BEN..NESULFONAMIDE (20.97) | | | | | | |
| HEXYL-PHENOL ISOMER (26.30) | | | | | | |
| TRIFLUOROMETHYLBENZAMINE ISOMER (13.33) | | | | | | |
| UNKNOWN MONOAROMATIC (22.80) | | | | | | |
| DIPHENYL-ETHANEDIONE (24.40) | | | | | | |
| CHLORINATED BIPHENYL UNK. (26.82) | | | | | | |
| BENZENAMINE UNKNOWN (22.47) | 16 J | | | | | |
| UNKNOWN AROMATIC (21.12) | | | | | | |
| BIPHENYL-OL UNKNOWN (27.12) | | | | | | |
| BENZOIC ACID, BROMO-UNK. (27.39) | 13 J | | | | | |
| 2,4-DICHLOROPHENOL, BENZENE SULFONATE (27.99) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (23.23) | | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.70) | | | | | | |
| UNKNOWN BENZENEMETHANOL (17.43) | | | | | | |
| DICHLOROBIPHENYL-OL UNK. (25.08) | | | | | | |
| BROMINATED ALIPHATIC UNK. (29.84) | 130 JN | | | | | |
| METHANONE, DIPHENYL (22.12) | 3 JN | | | | | |
| UNKNOWN AROMATIC (42.02) | | | | | | |
| BROMOBENZOIC ACID (27.65) | | | | | | |
| BROMODICHLOROBENZENE (17.08) | | | | | | |
| METHOXYCHLOR (30.97) | | | | | | |
| CHLOROETHENYL BENZENE (14.43) | | | | | | |
| 4-(TRIFLUOROMETHYL)-BENZENAMINE (13.28) | | | | | | |
| 1,2,3,4,5,7,7-H CHLOROBICYCLO2.2.1 HEPT-Z-ENE(32.89) | | | | | | |
| HALOGEN ONOAROMATIC (22.83) | | | | | | |

| TENTATIVEI [illegible] NTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Number | RNS [illegible] 3 | RNS-GW-S13DI. | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-D | NS-GW-D19 |
| Laboratory Samp[illegible] Number | S07[illegible] | S076D | S077 | S077RE | S078 | S079 |
| Remarks | | | | | | Duplicate of RNS-GW D14 |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Reextraction | | |
| HALOGENATED MONOAROMATIC (31.07) | | | | | | |
| ETHANEDIONE, DIPHENYL- (24.42) | | | | | | |
| OXYGENATED BIPHENYL (26.84) | | | | | | |
| HALOGENATED MONOAROMATIC (22.50) | | | | | | |
| DICHLOROPHENOL DERIVATIVE (28.05) | | | | | | |
| METHYOXYBENZENE ISOMER (16.35) | | | | | | |
| DIMETHYL-1,4-BENZENEDIAMINE (21.15) | | | | | | |
| HEPTACHLOROBICYCLOHEPTENE ISOMER (33.27) | | | | | | |
| CHLOROBIPHENYL-2-OL ISOMER (28.87) | | | | | | |
| OXYGENATED BIPHENYL DERIVATIVE (27.15) | 110 J | | | | | |
| UNKNOWN AROMATIC (44.05) | | | | | | |
| BROMINATED ALIPHATIC (29.90) | 11 J | | | | | |
| METHOXYCHLOR (30.12) | | | | | | |
| CHLORINATED MONAROMATIC (36.84) | | | | | | |
| UNKNOWN AROMATIC (42.24) | | | | | | |
| OCTACHLORONAPHTHALENE (31.80) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER (20.65) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER(25.13) | | | | | | |
| 1,2-ETHANDIOL, 1-PHENYL- (17.48) | | | | | | |
| BIPHENYLAMINE DERIVATIVE (30.72) | | | | | | |
| UNKNOWN CHLORINATED (38.19) | | | | | | |
| CHLOROETHYENYL BENZENE ISOMER (13.53) | | | | | | |
| BENZENE, 1-CHLORO-4-(PHENYLSULFONYL) (27.30) | | | | | | |
| CARBOXYLIC ACID (25.52) | | | | | | |
| UNKNOWN (42.19) | | | | | | |
| DIHYDRO-1H ISOMER (18.93) | | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.47) | | | | | | |
| CYCLOPENTANOL ISOMER(9.63) | | | | | | |
| UNKNOWN (21.75) | | | | | | |
| PHENOL, 4,4-BUTYLIDENE BIS 2-(1,1-DIMETHYLETHYL)-5-METHYL 2 (33.15) | | | | | | |
| SATURATED HYDROCARBON (31.59) | | | | | | |
| SATURATED HYDROCARBON (35.52) | | | | | | |
| SATURATED HYDROCARBON (30.62) | | | | | | |
| SATURATED HYDROCARBON (39.55) | | | | | | |
| SATURATED HYDROCARBON (32.70) | | | | | | |
| SATURATED HYDROCARBON (34.00) | | | | | | |
| SATURATED HYDROCARBON (29.74) | | | | | | |
| SATURATED HYDROCARBON (45.42) | | | | | | |
| CYCLOHEXANEDIOL ISOMER (13.25) | | | | | | |
| BENZOIC ACID (14.93) | | | | | | |
| PHENOL, TRIMETHYL ISOMER (19.77) | | | | | | |
| CHLOROETHENYL BENZENE ISOMER (14.43) | | | | | | |
| BENZENE, CHLOROETHENYL ISOMER(13.57) | | | | | | |
| DIHYDRO-1H-INDOLE ISOMER (18.98) | | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.50) | | | | | | |
| SULFONATED MONOAROMATIC (42.30) | | | | | | |

| TENTATIVEL Y IDENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwes ple Number | RNS S13 | RNS-GW-S13DL | RNS-GW-S2 | RNS GW-S2RE | RNS-GW-D1 | RNS-GW-D19 |
| Laboratory Sample Number | S076 | S076D | S077 | S077RE | S078 | S079 |
| Remarks | | | | | | Duplicate of RNS GW D14 |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Reextraction | | |
| PHENOL, TRIMETHYL (21.13) | | | | | | |
| UNKNOWN METHOXYALKYL BENZ. (16.33) | | | | | | |
| UNK. BIPHENYL/NAPTHALENE (26.75) | | | | | | |
| ETHANONE, UNKNOWN AMINOPHENYL (20.22) | | | | | | |
| UNKNOWN BENZENAMINE (22.72) | | | | | | |
| UNKNOWN ALKYLOXYBIPHENYL (27.07) | | | | | | |
| 1,1'-BIPHENYL-2-OL (20.62) | | | | | | |
| BENZENEMETHANOL, UNK. (17.42) | | | | | | |
| UNKNOWN CHLOROAROMATIC (27.97) | | | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| 2-METHOXY-BENZIMIDAZOLE-3-OXIDE (26.19) | | | | | | |
| DIHYDRO-1H-INDOLE (18.93) | | | | | | |
| 1,2,3,4,7,7,-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.77) | | | | | | |
| DIMETHOXY-ETHYLBENZENE ISOMER (18.25) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| BENZOIC ACID DERIVATIVE (16.50) | | | | | | |
| BENZOIC ACID (14.97) | | | | | | |
| UNKNOWN (22.08) | | | | | | |
| PHENOL, 4,4'-BUTYLIDENEBIS (33.15) | | | | | | |
| CHLORORBIPHENYL-OL, UNKNOWN (23.25) | | | | | | |
| CHLOROETHENYLBENZENE UNKNOWN (14.43) | | | | | | |
| SULFONATED MONOAROMATIC (24.33) | | | | | | |
| CHLOROBIPHENYL,-OL, UNK. (23.05) | | | | | | |
| METHOXYALKYLBENZENE UNK. (16.30) | | | | | | |
| UNKNOWN AROMATIC (21.08) | | | | | | |
| UNKNOWN CYCLOPENTANOL ISOMER (9.67) | | | | | | |
| UNKNOWN CYCLOPENTENE ISOMER(9.80) | | | | | | |
| BENZENESULFONAMIDE +UNK. (21.83) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.40) | | | | | | |
| METHOXYBENZENE UNK. (16.33) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.73) | | | | | | |
| ALKOXYBIPHENYL (27.09) | | | | | | |
| BENZENEMETHANOL ISOMER (17.45) | | | | | | |
| METHYLBENZENESULFONAMIDE (22.18) | | | | | | |
| BIPHENYL-OL ISOMER (20.65) | | | | | | |
| BROMOBENZOIC ACID ISOMER (16.52) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.32) | 86 J | | | | | |
| DIBROMOBENZENE ISOMER (23.03) | 24 J | | | | | |
| UNKNOWN CHLORINATED AROMATIC (26.72) | | | | | | |
| CHLOROBENZOIC ACID ISOMER (18.28) | | | | | | |
| DICHLORINATED AROMATIC UNKNOWN(12.78) | 5 J | | | | | |
| UNKNOWN ALKYL BENZENE (25.12) | | | | | | |
| UNKNOWN AROMATIC (18.82) | | | | | | |
| BENZENEETHANOL (14.30) | | | | | | |
| BENEZENES AMIDE (21.20) | | | | | | |
| METHOX E ISOMER (16.28) | | | | | | |

| TENTATIV[illegible]DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midw[illegible]le Number | RN[illegible]13 | RNS-GW-S13DL | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-[illegible] | RNS-GW-D19 |
| Laboratory San[illegible]Number | S[illegible] | S076D | S077 | S077RE | S078 | S079 |
| Remarks | | | | | | Duplicate of RNS-GW-D14 |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Reextraction | | |
| BROMOBENZOIC ACID ISOMER (19.22) | 8 J | | | | | |
| BE[illegible]ENESULFONAMIDE,2-METHYL (22.00) | | | | | | |
| BEN[illegible]ENESULFONAMIDE, 4-METHYL (22.48) | | | | | | |

| TENTATIVEL[illegible] IDENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwes[illegible]ple Number | RNS S15 | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D15DI. | RNS-GW-S | RNS GW-S8DI. |
| Laboratory Sample Number | S081 | S083 | S086 | S086D | S088 | S088D |
| Remarks | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | Dilution | | Dilution |
| BENZOIC ACID (15.55) | | | | | | |
| BENZENESULFONAMIDE (21.17) | 47 JN | | | 1500 JN | | 1800 JN |
| METHOXYBENZENE ISOMER (16.28) | | | | 270 J | 39 J | 41 J |
| BROMOBENZOIC ACID ISOMER(19.25) | | | | | | |
| UNKNOWN ALKOXY BIPHENYL (27.04) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.15) | | 3 J | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| UNKNOWN BENZENE ALKANOL (17.42) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.57) | | | | | | |
| BENZENESULFONAMIDE (21.97) | | 1300 JN | 500 JN | | 1300 JN | |
| BENZENE, METHOXY ISOMER (16.28) | | | | | | |
| BENZENE, SULFONYL, UNKNOWN (22.15) | | | | | | |
| ALKOXYBENZENE ISOMER (36.19) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (18.80) | | | 5 J | | 2 J | |
| BENZENESULFONIC ACID UNKNOWN (22.62) | | | | | | |
| UNKNOWN (17.02) | | | | | | |
| BENZENESULFONAMIDE-N-(PHENYLSULFONYL) (30.57) | | | 12 J | | | |
| UNKNOWN (26.24) | | | | | | |
| METHOXYBENZENE ISOMER (16.25) | | | | | 7 J | |
| UNKNOWN (17.17) | | | 10 J | | | |
| UNKNOWN CYCLOHEXANE (19.98) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (22.15) | | | | | | |
| BENZOIC ACID (15.02) | | | | | 4 R | |
| DECANOIC ACID (25.48) | | | | | | |
| UNKNOWN SULFONYLBENZENE DERIVATIVE(18.77) | | | | | | |
| UNKNOWN BENZENEDIOL DERIVATIVE(16.68) | | | | | | |
| UNKNOWN (20.48) | | | | | | |
| UNKNOWN (25.05) | | | | | | |
| BENZENESULFONAMIDE, METHYL (22.63) | | | | | | |
| UNKNOWN (16.00) | | | | | | |
| UNKNOWN (19.37) | | | | | | |
| UNKNOWN (27.65) | | | | | | |
| UNKNOWN ALIPHATIC (13.55) | | | | | | |
| 7-OXABICYCLO 4.1.0 HEPTANE (9.07) | 2 R | 3 JN | 15 J | | 2 R | |
| UNKNOWN CYCLIC ALIPHATIC (13.55) | | | 5 R | | 3 R | |
| CARBOXYLIC ACID (16.63) | 2 J | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.78) | 2 JN | | | | | |
| UNKNOWN METHOXY BENZENE (16.28) | | 10 J | 180 J | | | |
| UNKNOWN CYCLOHEXANE (13.55) | | | | | | |
| MIX BENZENESULFONAMIDE + UNK (21.15) | | | 270 J | | | |
| BUTOXYBIPHENYL ISOMER (26.72) | | | 26 J | | | |
| CHLOROMETHYL BENZENEMETHANOL ISOMER (17.43) | | | 19 J | | | |
| BIPHENYL- OL ISOMER(20.63) | | | 14 J | | | |
| UNKNOWN AROMATIC (26.89) | | | 12 J | | | |
| BENZOIC AC[illegible]K (25.17) | | | 11 J | | | |
| POSS. PHEN[illegible]HTHYLAMINE(22.13) | | | 9 J | | | |

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwe : Number | RN' '5 | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D15DL | RNS-GW | NS-GW-S8DL |
| Laboratory Sa. umber | | S083 | S086 | S086D | S088 | S088D |
| Remarks | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | Dilution | | Dilution |
| BUTOXY BIPHENYL ISOMER (27.07) | | | 7 J | | | |
| UNKNOWN (14.17) | | | 7 J | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.57) | | | 5 J | | | |
| UNKNOWN CYCLOHEXANOL (9.72) | | | 5 R | | | |
| UNKNOWN ALIPHATIC (35.55) | | | 5 R | | | |
| ALIPHATIC HYDROCARBON (42.24) | | | 4 J | | | |
| UNKNOWN KETONE(10.73) | | | 4 J | | | |
| UNKNOWN KETONE (9.88) | | | 4 R | | | |
| UNKNOWN (23.40) | | | 3 J | | | |
| ALIPHATIC HYDROCARBON (29.32) | | | 3 J | | | |
| 1,2,3,4,5,7,7-HEPTACHLOR-BICYCLO[2.2.1] HEPT-2-ENE (32.78) | | | | | 9 J | |
| UNKNOWN (22.13) | | | | | 4 J | |
| UNKNOWN IMIDAZOLIDINE (17.02) | | | | | 3 J | |
| UNKNOWN BENZOYLMORPHOLINE (23.03) | | | | | 3 J | |
| SATURATED HYDROCARBON (31.60) | | | | | 2 J | |
| BENZENEMETHANOL DERIVATIVE(16.50) | | | | | 2 J | |
| SULFUR, MOL. (S8) (26.52) | | | | | | |
| UNKNOWN (26.70) | | | | | | |
| UNKNOWN (9.03) | | | | | | |
| UNKNOWN METHOXYBENZENE (16.27) | | | | | | |
| BENZENESULFONAMIDE (20.97) | | | | | | |
| HEXYL-PHENOL ISOMER (26.30) | | | | | | |
| TRIFLUOROMETHYLBENZAMINE ISOMER (13.33) | | | | | | |
| UNKNOWN MONOAROMATIC (22.80) | | | | | | |
| DIPHENYL-ETHANEDIONE (24.40) | | | | | | |
| CHLORINATED BIPHENYL UNK. (26.82) | | | | | | |
| BENZENAMINE UNKNOWN (22.47) | | | | | | |
| UNKNOWN AROMATIC (21.12) | | | | | | |
| BIPHENYL-OL UNKNOWN (27.12) | | | | | | |
| BENZOIC ACID, BROMO-UNK. (27.39) | | | | | | |
| 2,4-DICHLOROPHENOL, BENZENE SULFONATE (27.99) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (23.23) | | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.70) | | | | | | |
| UNKNOWN BENZENEMETHANOL (17.43) | | | | | | |
| DICHLOROBIPHENYL-OL UNK. (25.08) | | | | | | |
| BROMINATED ALIPHATIC UNK. (29.84) | | | | | | |
| METHANONE, DIPHENYL (22.12) | | | | | | |
| UNKNOWN AROMATIC (42.02) | | | | | | |
| BROMOBENZOIC ACID (27.65) | | | | | | |
| BROMODICHLOROBENZENE (17.08) | | | | | | |
| METHOXYCHLOR (30.97) | | | | | | |
| CHLOROETHENYL BENZENE (14.43) | | | | | | |
| 4-(TRIFLUOROMETHYL)-BENZENAMINE (13.28) | | | | | | |
| 1,2,3,4,5,7,7-HEPTACHLOROBICYCLO2.2.1 HEPT-Z-ENE(32.89) | | | | | | |
| HALOGENATED MONOAROMATIC (22.83) | | | | | | |

| TENTATIVEL[illegible] [illegible]DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest [illegible]ple Number | RNS [illegible] S15 | RNS-GW-D17 | RNS-GW-D15 | RNS GW-D15DL | RNS-GW-S | RNS-GW-S8DL |
| Laboratory Sample Number | S081 | S083 | S086 | S086D | S088 | S088D |
| Remarks | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | Dilution | | Dilution |
| HALOGENATED MONOAROMATIC (31.07) | | | | | | |
| ETHANEDIONE, DIPHENYL- (24.42) | | | | | | |
| OXYGENATED BIPHENYL (26.84) | | | | | | |
| HALOGENATED MONOAROMATIC (22.50) | | | | | | |
| DICHLOROPHENOL DERIVATIVE (28.05) | | | | | | |
| METHYOXYBENZENE ISOMER (16.35) | | | | | | |
| DIMETHYL-1,4-BENZENEDIAMINE (21.15) | | | | | | |
| HEPTACHLOROBICYCLOHEPTENE ISOMER (33.27) | | | | | | |
| CHLOROBIPHENYL-2-OL ISOMER (28.87) | | | | | | |
| OXYGENATED BIPHENYL DERIVATIVE (27.15) | | | | | | |
| UNKNOWN AROMATIC (44.05) | | | | | | |
| BROMINATED ALIPHATIC (29.90) | | | | | | |
| METHOXYCHLOR (30.12) | | | | | | |
| CHLORINATED MONAROMATIC (36.84) | | | | | | |
| UNKNOWN AROMATIC (42.24) | | | | | | |
| OCTACHLORONAPHTHALENE (31.80) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER (20.65) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER(25.13) | | | | | | |
| 1,2-ETHANDIOL, 1-PHENYL- (17.48) | | | | | | |
| BIPHENYLAMINE DERIVATIVE (30.72) | | | | | | |
| UN[illegible]OWN CHLORINATED (38.19) | | | | | | |
| CHLOROETHYENYL BENZENE ISOMER (13.53) | | | | | | |
| BENZENE, 1-CHLORO-4-(PHENYLSULFONYL) (27.30) | | | | | | |
| CARBOXYLIC ACID (25.52) | | | | | | |
| UNKNOWN (42.19) | | | | | | |
| DIHYDRO-1H ISOMER (18.93) | | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.47) | | | | | | |
| CYCLOPENTANOL ISOMER(9.63) | | | | | | |
| UNKNOWN (21.75) | | | | | | |
| PHENOL, 4,4-BUTYLIDENE BIS 2-(1,1-DIMETHYLETHYL)-5-METHYL 2 (33.15) | | | | | | |
| SATURATED HYDROCARBON (31.59) | | | | | | |
| SATURATED HYDROCARBON (35.52) | | | | | | |
| SATURATED HYDROCARBON (30.62) | | | | | | |
| SATURATED HYDROCARBON (39.55) | | | | | | |
| SATURATED HYDROCARBON (32.70) | | | | | | |
| SATURATED HYDROCARBON (34.00) | | | | | | |
| SATURATED HYDROCARBON (29.74) | | | | | | |
| SATURATED HYDROCARBON (45.42) | | | | | | |
| CYCLOHEXANEDIOL ISOMER (13.25) | | | | | | |
| BENZOIC ACID (14.93) | | | | | | |
| PHENOL, TRIMETHYL ISOMER (19.77) | | | | | | |
| CHLOROETHENYL BENZENE ISOMER (14.43) | | | | | | |
| BENZENE, CHLOROETHENYL ISOMER(13.57) | | | | | | |
| DIHYDRO-1H-INDOLE ISOMER (18.98) | | | | | | |
| ETHANONE, [illegible]OPHENYL ISOMER(17.50) | | | | | | |
| SULFONATE[illegible]OAROMATIC (42.30) | | | | | | |

| TENTATIVE' ENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwe. e Number | RN 15 | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D15DI | RNS-GW | NS-GW-S8DI |
| Laboratory Samp.. Number | S08. | S083 | S086 | S086D | S088 | S088D |
| Remarks | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | Dilution | | Dilution |
| PHENOL, TRIMETHYL (21.13) | | | | | | |
| UNKNOWN METHOXYALKYL BENZ. (16.33) | | | | | | |
| UNK. BIPHENYL/NAPTHALENE (26.75) | | | | | | |
| ETHANONE, UNKNOWN AMINOPHENYL (20.22) | | | | | | |
| UNKNOWN BENZENAMINE (22.72) | | | | | | |
| UNKNOWN ALKYLOXYBIPHENYL (27.07) | | | | | | |
| 1,1'-BIPHENYL-2-OL (20.62) | | | | | | |
| BENZENEMETHANOL, UNK. (17.42) | | | | | | |
| UNKNOWN CHLOROAROMATIC (27.97) | | | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| 2-METHOXY-BENZIMIDAZOLE-3-OXIDE (26.19) | | | | | | |
| DIHYDRO-1H-INDOLE (18.93) | | | | | | |
| 1,2,3,4,7,7,-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.77) | | | | | | |
| DIMETHOXY-ETHYLBENZENE ISOMER (18.25) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| BENZOIC ACID DERIVATIVE (16.50) | | | | | | |
| BENZOIC ACID (14.97) | | | | | | |
| UNKNOWN (22.08) | | | | | | |
| PHENOL, 4,4'-BUTYLIDENEBIS (33.15) | | | | | | |
| CHLORORBIPHENYL-OL, UNKNOWN (23.25) | | | | | | |
| CHLOROETHENYLBENZENE UNKNOWN (14.43) | | | | | | |
| SULFONATED MONOAROMATIC (24.33) | | | | | | |
| CHLOROBIPHENYL,-OL, UNK. (23.05) | | | | | | |
| METHOXYALKYLBENZENE UNK. (16.30) | | | | | | |
| UNKNOWN AROMATIC (21.08) | | | | | | |
| UNKNOWN CYCLOPENTANOL ISOMER (9.67) | | | | | | |
| UNKNOWN CYCLOPENTENE ISOMER(9.80) | | | | | | |
| BENZENESULFONAMIDE +UNK. (21.83) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.40) | | | | | | |
| METHOXYBENZENE UNK. (16.33) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.73) | | | | | | |
| ALKOXYBIPHENYL (27.09) | | | | | | |
| BENZENEMETHANOL ISOMER (17.45) | | | | | | |
| METHYLBENZENESULFONAMIDE (22.18) | | | | | | |
| BIPHENYL-OL ISOMER (20.65) | | | | | | |
| BROMOBENZOIC ACID ISOMER (16.52) | | | | | | |
| CHLORGBENZENESULFONAMIDE (23.32) | | | | | | |
| DIBROMOBENZENE ISOMER (23.03) | | | | | | |
| UNKNOWN CHLORINATED AROMATIC (26.72) | | | | | | |
| CHLOROBENZOIC ACID ISOMER (18.28) | | | | | | |
| DICHLORINATED AROMATIC UNKNOWN(12.78) | | | | | | |
| UNKNOWN ALKYLBENZENE (25.12) | | | | | | |
| UNKNOWN AROMATIC (18.82) | | | | | | |
| BENZENEETHANOL (14.30) | | | | | | |
| BENEZENESULFONAMIDE (21.20) | | | | | | |
| METHOXYBENZENE ISOMER (16.28) | | | | | | |

TENTATIVELY IDENTIFIED COMPOUNDS

| ERM-Midwest Sample Number | RN /-S15 | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D15DI | RNS-GW-S8 | RNS-GW-S8DI |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | S081 | S083 | S086 | S086D | S088 | S088D |
| Remarks | | | | | | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | Dilution | | Dilution |
| BROMOBENZOIC ACID ISOMER (19.22) | | | | | | |
| BENZENESULFONAMIDE,2-METHYL (22.00) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.48) | | | | | | |

| TENTATIVE ENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwe e Number | RN 2 | RNS-GW-D2DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-S | NS-GW-S21DL |
| Laboratory Sam Number | S089 | S089D | S090R2 | S090D | S091 | S091D |
| Remarks | | | | | Duplicate of RNS GW D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | Dilution |
| BENZOIC ACID (15.55) | | | | | | |
| BENZENESULFONAMIDE (21.17) | 120 JN | | | | | |
| METHOXYBENZENE ISOMER (16.28) | | | | | | |
| BROMOBENZOIC ACID ISOMER(19.25) | | | | | | |
| UNKNOWN ALKOXY BIPHENYL (27.04) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.15) | | | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| UNKNOWN BENZENE ALKANOL (17.42) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.57) | | | | | | |
| BENZENESULFONAMIDE (21.97) | | | | | | |
| BENZENE, METHOXY ISOMER (16.28) | | | 110 J | | | |
| BENZENE, SULFONYL, UNKNOWN (22.15) | | | | | | |
| ALKOXYBENZENE ISOMER (36.19) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (18.80) | | | | | | |
| BENZENESULFONIC ACID UNKNOWN (22.62) | | | | | | |
| UNKNOWN (17.02) | | | | | | |
| BENZENESULFONAMIDE-N-(PHENYLSULFONYL) (30.57) | | | | | | |
| UNKNOWN (26.24) | | | | | | |
| METHOXYBENZENE ISOMER (16.25) | | | | | | |
| UNKNOWN (17.17) | | | | | | |
| UNKNOWN CYCLOHEXANE (19.98) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (22.15) | | | | | | |
| BENZOIC ACID (15.02) | | | | | | |
| DECANOIC ACID (25.48) | | | | | | |
| UNKNOWN SULFONYLBENZENE DERIVATIVE(18.77) | | | | | | |
| UNKNOWN BENZENEDIOL DERIVATIVE(16.68) | | | | | | |
| UNKNOWN (20.48) | | | | | | |
| UNKNOWN (25.05) | | | | | | |
| BENZENESULFONAMIDE, METHYL (22.63) | | | | | | |
| UNKNOWN (16.00) | | | | | | |
| UNKNOWN (19.37) | | | | | | |
| UNKNOWN (27.65) | | | | | | |
| UNKNOWN ALIPHATIC (13.55) | | | | | | |
| 7-OXABICYCLO 4.1.0 HEPTANE (9.07) | | | | | | |
| UNKNOWN CYCLIC ALIPHATIC (13.55) | | | | | | |
| CARBOXYLIC ACID (16.63) | | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.78) | | | | | | |
| UNKNOWN METHOXY BENZENE (16.28) | | | | | | |
| UNKNOWN CYCLOHEXANE (13.55) | 3 R | | | | | |
| MIX BENZENESULFONAMIDE + UNK (21.15) | | | | | | |
| BUTOXYBIPHENYL ISOMER (26.72) | | | | | | |
| CHLOROMETHYL BENZENEMETHANOL ISOMER (17.43) | | | | | | |
| BIPHENYL- OL ISOMER(20.63) | | | 24 J | | | |
| UNKNOWN AROMATIC (26.89) | | | | | | |
| BENZOIC ACID UNK (25.17) | | | | | | |
| POSS. PHENYL/NAPHTHYLAMINE(22.13) | | | | | | |

| TENTATIVEL ' 'DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest ple Number | RNS -D2 | RNS-GW-D2DL | RNS GW D12 | RNS-GW-D12DL | RNS-GW-S21 | RNS-GW-S21DL |
| Laboratory Sample Number | S089 | S089D | S090R2 | S090D | S091 | S091D |
| Remarks | | | | | Duplicate of RNS GW D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | Dilution |
| BUTOXY BIPHENYL ISOMER (27.07) | | | | | | |
| UNKNOWN (14.17) | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39 57) | | | | | | |
| UNKNOWN CYCLOHEXANOL (9.72) | | | | | | |
| UNKNOWN ALIPHATIC (35.55) | | | | | | |
| ALIPHATIC HYDROCARBON (42.24) | | | | | | |
| UNKNOWN KETONE(10.73) | | | | | | |
| UNKNOWN KETONE (9.88) | | | | | | |
| UNKNOWN (23.40) | | | | | | |
| ALIPHATIC HYDROCARBON (29.32) | | | | | | |
| 1,2,3,4,5,7,7-HEPTACHLOR-BICYCLO[2.2.1] HEPT-2-ENE (32.78) | | | | | | |
| UNKNOWN (22.13) | | | | | | |
| UNKNOWN IMIDAZOLIDINE (17.02) | | | | | | |
| UNKNOWN BENZOYLMORPHOLINE (23.03) | | | | | | |
| SATURATED HYDROCARBON (31.60) | | | | | | |
| BENZENEMETHANOL DERIVATIVE(16.50) | | | | | | |
| SULFUR, MOL. (S8) (26.52) | 6 J | | | | | |
| UNKNOWN (26.70) | 3 J | | | | | |
| UNKNOWN (9.03) | 3 R | | | | | |
| UNKNOWN METHOXYBENZENE (16.27) | 3 J | | | | | |
| BE NESULFONAMIDE (20.97) | | 100 JN | | | | |
| HEXYL-PHENOL ISOMER (26.30) | | | 1900 J | | | |
| TRIFLUOROMETHYLBENZAMINE ISOMER (13.33) | | | 760 J | | | |
| UNKNOWN MONOAROMATIC (22.80) | | | 320 J | | | |
| DIPHENYL-ETHANEDIONE (24.40) | | | 240 J | | | |
| CHLORINATED BIPHENYL UNK. (26.82) | | | 230 J | | | |
| BENZENAMINE UNKNOWN (22.47) | | | 230 J | | | |
| UNKNOWN AROMATIC (21.12) | | | 140 J | | | |
| BIPHENYL-OL UNKNOWN (27.12) | | | 86 J | | | |
| BENZOIC ACID, BROMO-UNK. (27.39) | | | 62 J | | | |
| 2,4-DICHLOROPHENOL, BENZENE SULFONATE (27.99) | | | 58 JN | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | 44 J | | | |
| CHLOROBIPHENYL -OL, UNK. (23.23) | | | 44 J | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.70) | | | 43 JN | | | |
| UNKNOWN BENZENEMETHANOL (17.43) | | | 38 J | | | |
| DICHLOROBIPHENYL-OL UNK. (25.08) | | | 35 J | | | |
| BROMINATED ALIPHATIC UNK. (29.84) | | | 33 J | | | |
| METHANONE, DIPHENYL (22.12) | | | 28 JN | | | |
| UNKNOWN AROMATIC (42.02) | | | 20 J | | | |
| BROMOBENZOIC ACID (27.65) | | | 17 J | | 78 J | |
| BROMODICHLOROBENZENE (17.08) | | | 11 J | | | |
| METHOXYCHLOR (30.97) | | | 16 JN | | | |
| CHLOROETHENYL BENZENE (14.43) | | | 10 J | | | |
| 4-(TRIFLUOROMETHYL)-BENZENAMINE (13.28) | | | | | 590 JN | |
| 1,2,3,4,5,7,7-HEP CHLOROBICYCLO2.2.1 HEPT-Z-ENE(32.89) | | | | | 580 JN | |
| HALOGENA NOAROMATIC (22.83) | | | | | 290 J | |

| TENTATIVE' ENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwe e Number | RI )2 | RNS-GW-D2DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-. | NS-GW-S21DL |
| Laboratory Samp.. Number | S0o9 | S089D | S090R2 | S090D | S091 | S091D |
| Remarks | | | | | Duplicate of RNS-GW-D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | Dilution |
| HALOGENATED MONOAROMATIC (31.07) | | | | | 280 J | |
| ETHANEDIONE, DIPHENYL- (24.42) | | | | | 210 JN | |
| OXYGENATED BIPHENYL (26.84) | | | | | 210 J | |
| HALOGENATED MONOAROMATIC (22.50) | | | | | 210 J | |
| DICHLOROPHENOL DERIVATIVE (28.05) | | | | | 140 J | |
| METHYOXYBENZENE ISOMER (16.35) | | | | | 120 J | |
| DIMETHYL-1,4-BENZENEDIAMINE (21.15) | | | | | 120 J | |
| HEPTACHLOROBICYCLOHEPTENE ISOMER (33.27) | | | | | 100 J | |
| CHLOROBIPHENYL-2-OL ISOMER (28.87) | | | | | 83 J | |
| OXYGENATED BIPHENYL DERIVATIVE (27.15) | | | | | 81 J | |
| UNKNOWN AROMATIC (44.05) | | | | | 70 J | |
| BROMINATED ALIPHATIC (29.90) | | | | | 60 J | |
| METHOXYCHLOR (30.12) | | | | | 60 JN | |
| CHLORINATED MONAROMATIC (36.84) | | | 11 J | | 44 J | |
| UNKNOWN AROMATIC (42.24) | | | | | 37 J | |
| OCTACHLORONAPHTHALENE (31.80) | | | | | 36 JN | |
| CHLOROBIPHENYL-OL, ISOMER (20.65) | | | | | 33 J | |
| CHLOROBIPHENYL-OL, ISOMER(25.13) | | | | | 32 J | |
| 1,2-ETHANDIOL, 1-PHENYL- (17.48) | | | | | 30 JN | |
| BIPHENYLAMINE DERIVATIVE (30.72) | | | | | 28 J | |
| UNKNOWN CHLORINATED (38.19) | | | | | 28 J | |
| CHLOROETHYENYL BENZENE ISOMER (13.53) | | | | | | |
| BENZENE, 1-CHLORO-4-(PHENYLSULFONYL) (27.30) | | | | | | |
| CARBOXYLIC ACID (25.52) | | | | | | |
| UNKNOWN (42.19) | | | | | | |
| DIHYDRO-1H ISOMER (18.93) | | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.47) | | | | | | |
| CYCLOPENTANOL ISOMER(9.63) | | | | | | |
| UNKNOWN (21.75) | | | | | | |
| PHENOL, 4,4-BUTYLIDENE BIS 2-(1,1-DIMETHYLETHYL)-5-METHYL 2 (33.15) | | | | | | |
| SATURATED HYDROCARBON (31.59) | | | | | | |
| SATURATED HYDROCARBON (35.52) | | | | | | |
| SATURATED HYDROCARBON (30.62) | | | | | | |
| SATURATED HYDROCARBON (39.55) | | | | | | |
| SATURATED HYDROCARBON (32.70) | | | | | | |
| SATURATED HYDROCARBON (34.00) | | | | | | |
| SATURATED HYDROCARBON (29.74) | | | | | | |
| SATURATED HYDROCARBON (45.42) | | | | | | |
| CYCLOHEXANEDIOL ISOMER (13.25) | | | | | | |
| BENZOIC ACID (14.93) | | | | | | |
| PHENOL, TRIMETHYL ISOMER (19.77) | | | | | | |
| CHLOROETHENYL BENZENE ISOMER (14.43) | | | | | | |
| BENZENE, CHLOROETHENYL ISOMER(13.57) | | | | | | |
| DIHYDRO-1H-INDOLE ISOMER (18.98) | | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.50) | | | | | | |
| SULFONATED MONOAROMATIC (42.30) | | | | | | |

| TENTATIVEL ' DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest ple Number | RNS- D2 | RNS-GW-D2DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-S21 | RNS-GW-S21DL |
| Laboratory Sample Number | S089 | S089D | S090R2 | S090D | S091 | S091D |
| Remarks | | | | | Duplicate of RNS GW D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | Dilution |
| PHENOL, TRIMETHYL (21.13) | | | | | | |
| UNKNOWN METHOXYALKYL BENZ. (16.33) | | | | | | |
| UNK. BIPHENYL/NAPTHALENE (26.75) | | | | | | |
| ETHANONE, UNKNOWN AMINOPHENYL (20.22) | | | | | | |
| UNKNOWN BENZENAMINE (22.72) | | | | | | |
| UNKNOWN ALKYLOXYBIPHENYL (27.07) | | | | | | |
| 1,1'-BIPHENYL-2-OL (20.62) | | | | | | |
| BENZENEMETHANOL, UNK. (17.42) | | | | | | |
| UNKNOWN CHLOROAROMATIC (27.97) | | | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| 2-METHOXY-BENZIMIDAZOLE-3-OXIDE (26.19) | | | | | | |
| DIHYDRO-1H-INDOLE (18.93) | | | | | | |
| 1,2,3,4,7,7,-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.77) | | | | | | |
| DIMETHOXY-ETHYLBENZENE ISOMER (18.25) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| BENZOIC ACID DERIVATIVE (16.50) | | | | | | |
| BENZOIC ACID (14.97) | | | | | | |
| UNKNOWN (22.08) | | | | | | |
| PHENOL, 4,4'-BUTYLIDENEBIS (33.15) | | | | | | |
| CHLORORBIPHENYL-OL, UNKNOWN (23.25) | | | | | | |
| CHLOROETHENYLBENZENE UNKNOWN (14.43) | | | | | | |
| SULFONATED MONOAROMATIC (24.33) | | | | | | |
| CHLOROBIPHENYL,-OL, UNK. (23.05) | | | | | | |
| METHOXYALKYLBENZENE UNK. (16.30) | | | | | | |
| UNKNOWN AROMATIC (21.08) | | | | | | |
| UNKNOWN CYCLOPENTANOL ISOMER (9.67) | | | | | | |
| UNKNOWN CYCLOPENTENE ISOMER(9.80) | | | | | | |
| BENZENESULFONAMIDE +UNK. (21.83) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.40) | | | | | | |
| METHOXYBENZENE UNK. (16.33) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.73) | | | | | | |
| ALKOXYBIPHENYL (27.09) | | | | | | |
| BENZENEMETHANOL ISOMER (17.45) | | | | | | |
| METHYLBENZENESULFONAMIDE (22.18) | | | | | | |
| BIPHENYL-OL. ISOMER (20.65) | | | | | | |
| BROMOBENZOIC ACID ISOMER (16.52) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.32) | | | | | | |
| DIBROMOBENZENE ISOMER (23.03) | | | | | | |
| UNKNOWN CHLORINATED AROMATIC (26.72) | | | | | | |
| CHLOROBENZOIC ACID ISOMER (18.28) | | | | | | |
| DICHLORINATED AROMATIC UNKNOWN(12.78) | | | | | | |
| UNKNOWN ALKYLBENZENE (25.12) | | | | | | |
| UNKNOWN AROMATIC (18.82) | | | | | | |
| BENZENEETHANOL (14.30) | | | | | | |
| BENEZENES' IAMIDE (21.20) | | | | | | |
| METHOX'' E ISOMER (16.28) | | | | | | |

| TENTATIVE[illegible] IDENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midw[illegible]le Number | R[illegible]D2 | RNS-GW-D2DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-[illegible] | RNS-GW-S21DI |
| Laboratory Sa[illegible] Number | S[illegible] | S089D | S090R2 | S090D | S091 | S091D |
| Remarks | | | | | Duplicate of RNS GW-D12 | |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | Dilution |
| BROMOBENZOIC ACID ISOMER (19.22) | | | | | | |
| BENZENESULFONAMIDE,2-METHYL (22.00) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.48) | | | | | | |

| TENTATIVEI DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest ple Number | RNS- -S7 | RNS-GW-S7DL | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D1 | RNS-GW-S7-106 |
| Laboratory Sample Number | S092 | S092D | S093 | S093D | S094 | S095 |
| Remarks | | | | | | Field Blank |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | |
| BENZOIC ACID (15.55) | | | | | | |
| BENZENESULFONAMIDE (21.17) | 710 JN | 940 JN | | | | |
| METHOXYBENZENE ISOMER (16.28) | | | | | | |
| BROMOBENZOIC ACID ISOMER(19.25) | | | | | | |
| UNKNOWN ALKOXY BIPHENYL (27.04) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.15) | | | | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | | | | |
| UNKNOWN BENZENE ALKANOL (17.42) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.57) | | | | | | |
| BENZENESULFONAMIDE (21.97) | | | | | | |
| BENZENE, METHOXY ISOMER (16.28) | | 20 J | | | | |
| BENZENE, SULFONYL, UNKNOWN (22.15) | | | | | | |
| ALKOXYBENZENE ISOMER (36.19) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (18.80) | | | | | | |
| BENZENESULFONIC ACID UNKNOWN (22.62) | | | | | | |
| UNKNOWN (17.02) | | | | | | |
| BENZENESULFONAMIDE-N-(PHENYLSULFONYL) (30.57) | | | | | | |
| UNKNOWN (26.24) | | | | | | |
| METHOXYBENZENE ISOMER (16.25) | 21 J | | | | | |
| UNKNOWN (17.17) | | | | | | |
| UNKNOWN CYCLOHEXANE (19.98) | | | | | | |
| BENZENESULFONAMIDE DERIVATIVE (22.15) | | | | | | |
| BENZOIC ACID (15.02) | | | | | | |
| DECANOIC ACID (25.48) | | | | | | |
| UNKNOWN SULFONYLBENZENE DERIVATIVE(18.77) | | | | | | |
| UNKNOWN BENZENEDIOL DERIVATIVE(16.68) | | | | | | |
| UNKNOWN (20.48) | | | | | | |
| UNKNOWN (25.05) | | | | | | |
| BENZENESULFONAMIDE, METHYL (22.63) | 5 JN | | | | | |
| UNKNOWN (16.00) | | | | | | |
| UNKNOWN (19.37) | | | | | | |
| UNKNOWN (27.65) | | | | | | |
| UNKNOWN ALIPHATIC (13.55) | | | | | | |
| 7-OXABICYCLO 4.1.0 HEPTANE (9.07) | | | | | | |
| UNKNOWN CYCLIC ALIPHATIC (13.55) | | | | | | |
| CARBOXYLIC ACID (16.63) | | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.78) | | | | | 100 | |
| UNKNOWN METHOXY BENZENE (16.28) | | | | | | |
| UNKNOWN CYCLOHEXANE (13.55) | | | | | | |
| MIX BENZENESULFONAMIDE + UNK (21.15) | | | | | | |
| BUTOXYBIPHENYL ISOMER (26.72) | | | | | | |
| CHLOROMETHYL BENZENEMETHANOL ISOMER (17.43) | | | | | | |
| BIPHENYL- OL ISOMER(20.63) | | | | | | |
| UNKNOWN AROMATIC (26.89) | | | | | | |
| BENZOIC ACID NK (25.17) | | | | | | |
| POSS. PHEN HITHYLAMINE(22.13) | | | | | | |

| TENTATIVE NTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest : Number | RNS / | RNS-GW-S7DL | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-L | NS-GW-S7-106 |
| Laboratory Sample Number | S092 | S092D | S093 | S093D | S094 | S095 |
| Remarks | | | | | | Field Blank |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | |
| BUTOXY BIPHENYL ISOMER (27.07) | | | | | | |
| UNKNOWN (14.17) | | | | | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.57) | | | | | | |
| UNKNOWN CYCLOHEXANOL (9.72) | | | | | | |
| UNKNOWN ALIPHATIC (35.55) | | | | | | |
| ALIPHATIC HYDROCARBON (42.24) | | | | | | |
| UNKNOWN KETONE(10.73) | | | | | | |
| UNKNOWN KETONE (9.88) | | | | | | |
| UNKNOWN (23.40) | | | | | | |
| ALIPHATIC HYDROCARBON (29.32) | | | | | | |
| 1,2,3,4,5,7,7-HEPTACHLOR-BICYCLO[2.2.1] HEPT-2-ENE (32.78) | | | | | | |
| UNKNOWN (22.13) | | | | | | |
| UNKNOWN IMIDAZOLIDINE (17.02) | | | | | | |
| UNKNOWN BENZOYLMORPHOLINE (23.03) | | | | | | |
| SATURATED HYDROCARBON (31.60) | | | | | | |
| BENZENEMETHANOL DERIVATIVE(16.50) | | | | | | |
| SULFUR, MOL. (S8) (26.52) | 170 J | | | | | |
| UNKNOWN (26.70) | | | | | | |
| UNKNOWN (9.03) | | | | | | |
| UNKNOWN METHOXYBENZENE (16.27) | | | | | | |
| BENZENESULFONAMIDE (20.97) | | | | | | |
| HEXYL-PHENOL ISOMER (26.30) | | | | | 52 | |
| TRIFLUOROMETHYLBENZAMINE ISOMER (13.33) | | | | | | |
| UNKNOWN MONOAROMATIC (22.80) | | | | | | |
| DIPHENYL-ETHANEDIONE (24.40) | | | | | | |
| CHLORINATED BIPHENYL UNK. (26.82) | | | | | | |
| BENZENAMINE UNKNOWN (22.47) | | | | | | |
| UNKNOWN AROMATIC (21.12) | | | | | | |
| BIPHENYL-OL UNKNOWN (27.12) | | | | | | |
| BENZOIC ACID, BROMO-UNK. (27.39) | | | | | | |
| 2,4-DICHLOROPHENOL, BENZENE SULFONATE (27.99) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | | | | |
| CHLOROBIPHENYL -OL, UNK. (23.23) | | | | | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.70) | | | | | | |
| UNKNOWN BENZENEMETHANOL (17.43) | | | | | | |
| DICHLOROBIPHENYL-OL UNK. (25.08) | | | | | | |
| BROMINATED ALIPHATIC UNK. (29.84) | | | | | | |
| METHANONE, DIPHENYL (22.12) | | | | | | |
| UNKNOWN AROMATIC (42.02) | | | | | | |
| BROMOBENZOIC ACID (27.65) | | | | | | |
| BROMODICHLOROBENZENE (17.08) | | | | | | |
| METHOXYCHLOR (30.97) | | | | | | |
| CHLOROETHENYL BENZENE (14.43) | | | | | | |
| 4-(TRIFLUOROMETHYL)-BENZENAMINE (13.28) | | | | | | |
| 1,2,3,4,5,7,7-HEPTACHLOROBICYCLO2.2.1 HEPT-Z-ENE(32.89) | | | | | | |
| HALOGENATED MONOAROMATIC (22.83) | | | | | | |

| TENTATIVEI DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest ple Number | RNS- -S7 | RNS-GW-S7DL | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D1 | RNS-GW-S7-106 |
| Laboratory Sample Number | S092 | S092D | S093 | S093D | S094 | S095 |
| Remarks | | | | | | Field Blank |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | |
| HALOGENATED MONOAROMATIC (31.07) | | | | | | |
| ETHANEDIONE, DIPHENYL- (24.42) | | | | | | |
| OXYGENATED BIPHENYL (26.84) | | | | | | |
| HALOGENATED MONOAROMATIC (22.50) | | | | | | |
| DICHLOROPHENOL DERIVATIVE (28.05) | | | | | | |
| METHYOXYBENZENE ISOMER (16.35) | | | | | | |
| DIMETHYL-1,4-BENZENEDIAMINE (21.15) | | | | | | |
| HEPTACHLOROBICYCLOHEPTENE ISOMER (33.27) | | | | | | |
| CHLOROBIPHENYL-2-OL ISOMER (28.87) | | | | | | |
| OXYGENATED BIPHENYL DERIVATIVE (27.15) | | | | | | |
| UNKNOWN AROMATIC (44.05) | | | | | | |
| BROMINATED ALIPHATIC (29.90) | | | | | | |
| METHOXYCHLOR (30.12) | | | | | | |
| CHLORINATED MONAROMATIC (36.84) | | | | | | |
| UNKNOWN AROMATIC (42.24) | | | | | | |
| OCTACHLORONAPHTHALENE (31.80) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER (20.65) | | | | | | |
| CHLOROBIPHENYL-OL, ISOMER(25.13) | | | | | | |
| 1,2-ETHANDIOL, 1-PHENYL- (17.48) | | | | | | |
| BIPHENYLAMINE DERIVATIVE (30.72) | | | | | | |
| UNKNOWN CHLORINATED (38.19) | | | | | | |
| CHLOROETHYENYL BENZENE ISOMER (13.53) | 31 J | | | | | |
| BENZENE, 1-CHLORO-4-(PHENYLSULFONYL) (27.30) | 14 JN | | | | | |
| CARBOXYLIC ACID (25.52) | 13 J | | | | | |
| UNKNOWN (42.19) | 12 J | | | | | |
| DIHYDRO-1H ISOMER (18.93) | 11 J | | | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.47) | 11 J | | | | | |
| CYCLOPENTANOL ISOMER(9.63) | 7 R | | | | | |
| UNKNOWN (21.75) | 7 J | | | | | |
| PHENOL, 4,4-BUTYLIDENE BIS 2-(1,1-DIMETHYLETHYL)-5-METHYL 2 (33.15) | 6 JN | | | | | |
| SATURATED HYDROCARBON (31.59) | 6 J | | | | | |
| SATURATED HYDROCARBON (35.52) | 5 J | | | | | |
| SATURATED HYDROCARBON (30.62) | 5 J | | | | | |
| SATURATED HYDROCARBON (39.55) | 5 J | | | | | |
| SATURATED HYDROCARBON (32.70) | 5 J | | | | | |
| SATURATED HYDROCARBON (34.00) | 5 J | | | | | |
| SATURATED HYDROCARBON (29.74) | 4 J | | | | | |
| SATURATED HYDROCARBON (45.42) | 3 J | | | | | |
| CYCLOHEXANEDIOL ISOMER (13.25) | 3 R | | | | | |
| BENZOIC ACID (14.93) | 3 R | | | | | |
| PHENOL, TRIMETHYL ISOMER (19.77) | 3 J | | | | | |
| CHLOROETHENYL BENZENE ISOMER (14.43) | 3 J | | | | | |
| BENZENE, CHLOROETHENYL ISOMER(13.57) | | 28 J | | | | |
| DIHYDRO-1H-INDOLE ISOMER (18.98) | | 11 J | | | | |
| ETHANONE OPHENYL ISOMER(17.50) | | 9 J | | | | |
| SULFONA IOAROMATIC (42.30) | | 9 J | | | | |

| TENTATIVE ENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwes .e Number | RN .7 | RNS-GW-S7DL | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-L | NS-GW-S7-106 |
| Laboratory Sample Number | S092 | S092D | S093 | S093D | S094 | S095 |
| Remarks | | | | | | Field Blank |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | |
| PHENOL, TRIMETHYL (21.13) | | | 480 J | | | |
| UNKNOWN METHOXYALKYL BENZ. (16.33) | | | 310 J | | | |
| UNK. BIPHENYL/NAPTHALENE (26.75) | | | 96 J | | | |
| ETHANONE, UNKNOWN AMINOPHENYL (20.22) | | | 55 J | | | |
| UNKNOWN BENZENAMINE (22.72) | | | 47 J | | | |
| UNKNOWN ALKYLOXYBIPHENYL (27.07) | | | 39 J | | | |
| 1,1'-BIPHENYL-2-OL (20.62) | | | 30 JN | | | |
| BENZENEMETHANOL, UNK. (17.42) | | | 24 J | | | |
| UNKNOWN CHLOROAROMATIC (27.97) | | | 22 J | | | |
| ETHANONE, 1-PHENYL- (13.45) | | | 20 JN | | | |
| 2-METHOXY-BENZIMIDAZOLE-3-OXIDE (26.19) | | | 14 JN | | | |
| DIHYDRO-1H-INDOLE (18.93) | | | 12 J | | | |
| 1,2,3,4,7,7,-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.77) | | | 12 JN | | | |
| DIMETHOXY-ETHYLBENZENE ISOMER (18.25) | | | 9 J | | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | | 15 J | | | |
| BENZOIC ACID DERIVATIVE (16.50) | | | 7 J | | | |
| BENZOIC ACID (14.97) | | | 5 R | | | |
| UNKNOWN (22.08) | | | 4 J | | | |
| PHENOL, 4,4'-BUTYLIDENEBIS (33.15) | | | 4 JN | | | |
| CHLORORBIPHENYL-OL, UNKNOWN (23.25) | | | 4 J | | | |
| CHLOROETHENYLBENZENE UNKNOWN (14.43) | | | 4 J | | | |
| SULFONATED MONOAROMATIC (24.33) | | | 4 J | | | |
| CHLOROBIPHENYL,-OL, UNK. (23.05) | | | 3 J | | | |
| METHOXYALKYLBENZENE UNK. (16.30) | | | | 660 J | | |
| UNKNOWN AROMATIC (21.08) | | | | 430 J | | |
| UNKNOWN CYCLOPENTANOL ISOMER (9.67) | | | | | | 12 J |
| UNKNOWN CYCLOPENTENE ISOMER(9.80) | | | | | | 2 J |
| BENZENESULFONAMIDE +UNK. (21.83) | | | | | | |
| BROMOBENZOIC ACID ISOMER (19.40) | | | | | | |
| METHOXYBENZENE UNK. (16.33) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.73) | | | | | | |
| ALKOXYBIPHENYL (27.09) | | | | | | |
| BENZENEMETHANOL ISOMER (17.45) | | | | | | |
| METHYLBENZENESULFONAMIDE (22.18) | | | | | | |
| BIPHENYL-OL ISOMER (20.65) | | | | | | |
| BROMOBENZOIC ACID ISOMER (16.52) | | | | | | |
| CHLOROBENZENESULFONAMIDE (23.32) | | | | | | |
| DIBROMOBENZENE ISOMER (23.03) | | | | | | |
| UNKNOWN CHLORINATED AROMATIC (26.72) | | | | | | |
| CHLOROBENZOIC ACID ISOMER (18.28) | | | | | | |
| DICHLORINATED AROMATIC UNKNOWN(12.78) | | | | | | |
| UNKNOWN ALKYLBENZENE (25.12) | | | | | | |
| UNKNOWN AROMATIC (18.82) | | | | | | |
| BENZENEETHANOL (14.30) | | | | | | |
| BENEZENESULFONAMIDE (21.20) | | | | | | |
| METHOXYBENZENE ISOMER (16.28) | | | | | | |

| TENTATIVEI DENTIFIED COMPOUNDS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest ..ple Number | RNS-. S7 | RNS-GW-S7DI. | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D1. | .NS-GW-S7-106 |
| Laboratory Sample Number | S092 | S092D | S093 | S093D | S094 | S095 |
| Remarks | | | | | | Field Blank |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution | | Dilution | | |
| BROMOBENZOIC ACID ISOMER (19.22) | | | | | | |
| BENZENESULFONAMIDE,2-METHYL (22.00) | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.48) | | | | | | |

| TENTATIVE' ENTIFIED COMPOUNDS | | |
|---|---|---|
| ERM-Midwe. e Number | RI D6 | RNS-GW-D6DL |
| Laboratory Samp.. Number | S097 | S097D |
| Remarks | | |
| Units | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution |
| BENZOIC ACID (15.55) | | |
| BENZENESULFONAMIDE (21.17) | | |
| METHOXYBENZENE ISOMER (16.28) | | |
| BROMOBENZOIC ACID ISOMER(19.25) | | |
| UNKNOWN ALKOXY BIPHENYL (27.04) | | |
| CHLOROBENZENESULFONAMIDE (23.15) | | |
| ETHANONE, 1-PHENYL- (13.45) | | |
| UNKNOWN BENZENE ALKANOL (17.42) | | |
| BROMOBENZOIC ACID ISOMER (19.57) | 7 J | |
| BENZENESULFONAMIDE (21.97) | | |
| BENZENE, METHOXY ISOMER (16.28) | | |
| BENZENE, SULFONYL, UNKNOWN (22.15) | | |
| ALKOXYBENZENE ISOMER (36.19) | | |
| BENZENESULFONAMIDE DERIVATIVE (18.80) | | |
| BENZENESULFONIC ACID UNKNOWN (22.62) | | |
| UNKNOWN (17.02) | | |
| BENZENESULFONAMIDE-N-(PHENYLSULFONYL) (30.57) | | |
| UNKNOWN (26.24) | | |
| METHOXYBENZENE ISOMER (16.25) | | |
| UNKNOWN (17.17) | | |
| UNKNOWN CYCLOHEXANE (19.98) | | |
| BENZENESULFONAMIDE DERIVATIVE (22.15) | | |
| BENZOIC ACID (15.02) | | |
| DECANOIC ACID (25.48) | | |
| UNKNOWN SULFONYLBENZENE DERIVATIVE(18.77) | | |
| UNKNOWN BENZENEDIOL DERIVATIVE(16.68) | | |
| UNKNOWN (20.48) | | |
| UNKNOWN (25.05) | | |
| BENZENESULFONAMIDE, METHYL (22.63) | | |
| UNKNOWN (16.00) | | |
| UNKNOWN (19.37) | | |
| UNKNOWN (27.65) | | |
| UNKNOWN ALIPHATIC (13.55) | | |
| 7-OXABICYCLO 4.1.0 HEPTANE (9.07) | | |
| UNKNOWN CYCLIC ALIPHATIC (13.55) | | |
| CARBOXYLIC ACID (16.63) | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.78) | | |
| UNKNOWN METHOXY BENZENE (16.28) | | |
| UNKNOWN CYCLOHEXANE (13.55) | | |
| MIX BENZENESULFONAMIDE + UNK (21.15) | | |
| BUTOXYBIPHENYL ISOMER (26.72) | | |
| CHLOROMETHYL BENZENEMETHANOL ISOMER (17.43) | | |
| BIPHENYL- OL ISOMER(20.63) | | |
| UNKNOWN AROMATIC (26.89) | | |
| BENZOIC ACID UNK (25.17) | | |
| POSS. PHENYL/NAPHTHYLAMINE(22.13) | | |

| TENTATIVEL[illegible] ENTIFIED COMPOUNDS | | |
|---|---|---|
| ERM-Midwest S[illegible]ple Number | RNS- D6 | RNS-GW-D6DL |
| Laboratory Sample Number | S097 | S097D |
| Remarks | | |
| Units | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution |
| BUTOXY BIPHENYL ISOMER (27.07) | | |
| UNKNOWN (14.17) | | |
| UNKNOWN ALIPHATIC HYDROCARBON (39.57) | | |
| UNKNOWN CYCLOHEXANOL (9.72) | | |
| UNKNOWN ALIPHATIC (35.55) | | |
| ALIPHATIC HYDROCARBON (42.24) | | |
| UNKNOWN KETONE(10.73) | | |
| UNKNOWN KETONE (9.88) | | |
| UNKNOWN (23.40) | | |
| ALIPHATIC HYDROCARBON (29.32) | | |
| 1,2,3,4,5,7,7-HEPTACHLOR-BICYCLO[2.2.1] HEPT-2-ENE (32.78) | | |
| UNKNOWN (22.13) | | |
| UNKNOWN IMIDAZOLIDINE (17.02) | | |
| UNKNOWN BENZOYLMORPHOLINE (23.03) | | |
| SATURATED HYDROCARBON (31.60) | | |
| BENZENEMETHANOL DERIVATIVE(16.50) | | |
| SULFUR, MOL. (S8) (26.52) | | |
| UNKNOWN (26.70) | | |
| UNKNOWN (9.03) | | |
| UNKNOWN METHOXYBENZENE (16.27) | | |
| BENZENESULFONAMIDE (20.97) | | |
| HEXYL-PHENOL ISOMER (26.30) | | |
| TRIFLUOROMETHYLBENZAMINE ISOMER (13.33) | | |
| UNKNOWN MONOAROMATIC (22.80) | | |
| DIPHENYL-ETHANEDIONE (24.40) | | |
| CHLORINATED BIPHENYL UNK. (26.82) | | |
| BENZENAMINE UNKNOWN (22.47) | | |
| UNKNOWN AROMATIC (21.12) | | |
| BIPHENYL-OL UNKNOWN (27.12) | | |
| BENZOIC ACID, BROMO-UNK. (27.39) | | |
| 2,4-DICHLOROPHENOL, BENZENE SULFONATE (27.99) | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | |
| CHLOROBIPHENYL -OL, UNK. (23.23) | | |
| 1,2,3,4,7,7-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.70) | | |
| UNKNOWN BENZENEMETHANOL (17.43) | | |
| DICHLOROBIPHENYL-OL UNK. (25.08) | | |
| BROMINATED ALIPHATIC UNK. (29.84) | | |
| METHANONE, DIPHENYL (22.12) | | |
| UNKNOWN AROMATIC (42.02) | | |
| BROMOBENZOIC ACID (27.65) | | |
| BROMODICHLOROBENZENE (17.08) | | |
| METHOXYCHLOR (30.97) | | |
| CHLOROETHENYL BENZENE (14.43) | | |
| 4-(TRIFLUOROMETHYL)-BENZENAMINE (13.28) | | |
| 1,2,3,4,5,7,7-H[illegible]CHLOROBICYCLO2.2.1 HEPT-Z-ENE(32.89) | | |
| HALOGEN [illegible]ONOAROMATIC (22.83) | | |

| TENTATIVEI | 'NTIFIED COMPOUNDS | | |
|---|---|---|---|
| ERM-Midwest | Number | RN 6 | RNS-GW-D6DL |
| Laboratory Sample Number | | S09, | S097D |
| Remarks | | | |
| Units | | ug/L | ug/L |
| SEMIVOLATILE TICS | | | Dilution |
| HALOGENATED MONOAROMATIC (31.07) | | | |
| ETHANEDIONE, DIPHENYL- (24.42) | | | |
| OXYGENATED BIPHENYL (26.84) | | | |
| HALOGENATED MONOAROMATIC (22.50) | | | |
| DICHLOROPHENOL DERIVATIVE (28.05) | | | |
| METHYOXYBENZENE ISOMER (16.35) | | | |
| DIMETHYL-1,4-BENZENEDIAMINE (21.15) | | | |
| HEPTACHLOROBICYCLOHEPTENE ISOMER (33.27) | | | |
| CHLOROBIPHENYL-2-OL ISOMER (28.87) | | | |
| OXYGENATED BIPHENYL DERIVATIVE (27.15) | | | |
| UNKNOWN AROMATIC (44.05) | | | |
| BROMINATED ALIPHATIC (29.90) | | | |
| METHOXYCHLOR (30.12) | | | |
| CHLORINATED MONAROMATIC (36.84) | | | |
| UNKNOWN AROMATIC (42.24) | | | |
| OCTACHLORONAPHTHALENE (31.80) | | | |
| CHLOROBIPHENYL-OL, ISOMER (20.65) | | | |
| CHLOROBIPHENYL-OL, ISOMER(25.13) | | | |
| 1,2-ETHANDIOL, 1-PHENYL- (17.48) | | | |
| BIPHENYLAMINE DERIVATIVE (30.72) | | | |
| UNKNOWN CHLORINATED (38.19) | | | |
| CHLOROETHYENYL BENZENE ISOMER (13.53) | | | |
| BENZENE, 1-CHLORO-4-(PHENYLSULFONYL) (27.30) | | | |
| CARBOXYLIC ACID (25.52) | | | |
| UNKNOWN (42.19) | | | |
| DIHYDRO-1H ISOMER (18.93) | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.47) | | | |
| CYCLOPENTANOL ISOMER(9.63) | | | |
| UNKNOWN (21.75) | | | |
| PHENOL, 4,4-BUTYLIDENE BIS 2-(1,1-DIMETHYLETHYL)-5-METHYL 2 (33.15) | | | |
| SATURATED HYDROCARBON (31.59) | | | |
| SATURATED HYDROCARBON (35.52) | | | |
| SATURATED HYDROCARBON (30.62) | | | |
| SATURATED HYDROCARBON (39.55) | | | |
| SATURATED HYDROCARBON (32.70) | | | |
| SATURATED HYDROCARBON (34.00) | | | |
| SATURATED HYDROCARBON (29.74) | | | |
| SATURATED HYDROCARBON (45.42) | | | |
| CYCLOHEXANEDIOL ISOMER (13.25) | | | |
| BENZOIC ACID (14.93) | | | |
| PHENOL, TRIMETHYL ISOMER (19.77) | | | |
| CHLOROETHENYL BENZENE ISOMER (14.43) | | | |
| BENZENE, CHLOROETHENYL ISOMER(13.57) | | | |
| DIHYDRO-1H-INDOLE ISOMER (18.98) | | | |
| ETHANONE, AMINOPHENYL ISOMER(17.50) | | | |
| SULFONATED MONOAROMATIC (42.30) | | | |

| TENTATIVEL[illegible] ENTIFIED COMPOUNDS | | |
|---|---|---|
| ERM-Midwest S[illegible]ple Number | RNS[illegible] D6 | RNS-GW-D6DL |
| Laboratory Sample Number | S097 | S097D |
| Remarks | | |
| Units | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution |
| PHENOL, TRIMETHYL (21.13) | | |
| UNKNOWN METHOXYALKYL BENZ. (16.33) | | |
| UNK. BIPHENYL/NAPTHALENE (26.75) | | |
| ETHANONE, UNKNOWN AMINOPHENYL (20.22) | | |
| UNKNOWN BENZENAMINE (22.72) | | |
| UNKNOWN ALKYLOXYBIPHENYL (27.07) | | |
| 1,1'-BIPHENYL-2-OL (20.62) | | |
| BENZENEMETHANOL, UNK. (17.42) | | |
| UNKNOWN CHLOROAROMATIC (27.97) | | |
| ETHANONE, 1-PHENYL- (13.45) | | |
| 2-METHOXY-BENZIMIDAZOLE-3-OXIDE (26.19) | | |
| DIHYDRO-1H-INDOLE (18.93) | | |
| 1,2,3,4,7,7,-HEPTACHLOROBICYCLO[2.2.1]HEPT-2-ENE (32.77) | | |
| DIMETHOXY-ETHYLBENZENE ISOMER (18.25) | | |
| CHLOROBIPHENYL -OL, UNK. (28.82) | | |
| BENZOIC ACID DERIVATIVE (16.50) | | |
| BENZOIC ACID (14.97) | | |
| UNKNOWN (22.08) | | |
| PHENOL, 4,4'-BUTYLIDENEBIS (33.15) | | |
| CHLORORBIPHENYL-OL, UNKNOWN (23.25) | | |
| CHLOROETHENYLBENZENE UNKNOWN (14.43) | | |
| SULFONATED MONOAROMATIC (24.33) | | |
| CHLOROBIPHENYL,-OL, UNK. (23.05) | | |
| METHOXYALKYLBENZENE UNK. (16.30) | | |
| UNKNOWN AROMATIC (21.08) | | |
| UNKNOWN CYCLOPENTANOL ISOMER (9.67) | | |
| UNKNOWN CYCLOPENTENE ISOMER(9.80) | | |
| BENZENESULFONAMIDE +UNK. (21.83) | 1100 JN | |
| BROMOBENZOIC ACID ISOMER (19.40) | 140 J | |
| METHOXYBENZENE UNK. (16.33) | 130 J | |
| BENZENESULFONAMIDE, 4-METHYL (22.73) | 73 JN | |
| ALKOXYBIPHENYL (27.09) | 31 J | |
| BENZENEMETHANOL ISOMER (17.45) | 19 J | |
| METHYLBENZENESULFONAMIDE (22.18) | 18 J | |
| BIPHENYL-OL ISOMER (20.65) | 10 J | |
| BROMOBENZOIC ACID ISOMER (16.52) | 7 J | |
| CHLOROBENZENESULFONAMIDE (23.32) | 4 J | |
| DIBROMOBENZENE ISOMER (23.03) | 3 J | |
| UNKNOWN CHLORINATED AROMATIC (26.72) | 3 J | |
| CHLOROBENZOIC ACID ISOMER (18.28) | 3 J | |
| DICHLORINATED AROMATIC UNKNOWN(12.78) | 3 J | |
| UNKNOWN ALKYLBENZENE (25.12) | 3 J | |
| UNKNOWN AROMATIC (18.82) | 2 J | |
| BENZENEETHANOL (14.30) | 2 JN | |
| BENEZENES[illegible]AMIDE (21.20) | | 2500 JN |
| METHOX[illegible]E ISOMER (16.28) | | 190 J |

| TENTATIVE[illegible] ENTIFIED COMPOUNDS | | |
|---|---|---|
| ERM-Midwe[illegible] : Number | RN[illegible]6 | RNS-GW-D6DL |
| Laboratory Samp[illegible] umber | S0[illegible] | S097D |
| Remarks | | |
| Units | ug/L | ug/L |
| SEMIVOLATILE TICS | | Dilution |
| BROMOBENZOIC ACID ISOMER (19.22) | | 110 J |
| BENZENESULFONAMIDE,2-METHYL (22.00) | | 24 JN |
| BENZENESULFONAMIDE, 4-METHYL (22.48) | | 91 JN |

EXTRACTABI ' 'RGANIC ANALYSIS

| ERM-Midwest San., ,umber | RNS GW GUB | RNS GW-GUBDL | RNS GW RW1 | RNS GW-RW1DL | RNS GW RW1 107 | RNS GW-S12 | RNS GW S12RE |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S101R2 | S101D | S106 | S106D | S108 | S082 | S082RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIX- 98-10-2 + UNK ALIPH AM (22 08) | 1900 J | | | | | | |
| MIX - UNK. BENZAMINE+98-10-2 (21 07) | 260 J | | | | | | |
| BENZENE, METHOXY, UNK (16 25) | 100 J | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 55) | 17 J | | | | | | |
| CHLORO-AROMATIC UNK MW-262 (26 65) | 11 J | | | | | | |
| UNKNOWN SULFONATED BENZENE (18 75) | 9 J | | | | | | |
| OXYAROMATIC UNKNOWN MW-244 (27.07) | 5 J | | | | | | |
| ALIPHATIC UNKNOWN (9 00) | 5 R | | | | | | |
| MIX-BIPHENYL-OL-OTHER UNK (20 57) | 5 J | | | | | | |
| UNK ALIPHATIC HYDROCARB (13 23) | 4 J | | | | | | |
| MIX 70-55-3 + UNK (23 02) | 4 J | | | | | | |
| CYCLOHEXANOL UNKNOWN,POSS BR (14 20) | 4 R | | | | | | |
| UNKNOWN AROMATIC (25 18) | 3 J | | | | | | |
| MIX-UNKNOWN AROMATIC+ OTHER (15 92) | 3 J | | | | | | |
| UNKNOWN CYCLOHEXANOL (12 67) | 3 J | | | | | | |
| UNKNOWN CYCLOHEXANOL (9 67) | 3 J | | | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.00) | 3 J | | | | | | |
| UNKNOWN AROMATIC AMINE (26 87) | 3 J | | | | | | |
| UNK. ALIPHATIC KETONE/ALD (10.67) | 3 R | | | | | | |
| UNKNOWN ALKOXYBENZENE (18.20) | 3 J | | | | | | |
| UNK ALKOXYBIPHENYL, BENZ (24.30) | 2 J | | | | | | |
| BENZENESULFONAMIDE (21 00) | | 2400 JN | | | | | |
| UNKNOWN ALKOXYBENZENE (16 25) | | 140 J | | 930 J | | | |
| MIX AR AMINE UNK +DICHLOROBENZ (13 15) | | | 920 J | | | | |
| CHLOROBIPHENYLNAPTHALENE U (26.77) | | | 260 J | | | | |
| UNKNOWN NITROBENZENE (22 75) | | | 230 J | | | | |
| UNKNOWN METHOXYBENZENE (16.32) | | | 200 J | | | | |
| MIX-CHLOROALKYLBENZENEAMINE (21 08) | | | 170 J | | | | |
| UNK NITROBENZENEAMINE (22.43) | | | 160 J | | | | |
| ETHANDIONE, DIPHENYL (24 33) | | | 110 JN | | | | |
| BIPHENYL-OL/NAPTHALENE UNK (27 07) | | | 82 J | | | | |
| CHLOROBIPHENYL-OL UNK (28 79) | | | 27 J | | | | |
| BIPHENYL-OL UNK (20 58) | | | 25 J | | | | |
| DICHLOROPHENOLBENZENESULFON. (27.94) | | | 23 J | | | | |
| HALOGENATED AROMATIC, MW-326 (27.34) | | | 20 J | | | | |
| PHENYLETHANDIOL (17 38) | | | 19 JN | | | | |
| MIX 76-01 7 (11 68) | | | 17 J | | | | |

| EXTRACTABI ^RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest San ber | RNS GW GUB | RNS GW GUBDL | NS GW RW1 | RNS GW RW1DL | RNS GW RW1 107 | RNS GW S12 | Y S12RE |
| Laboratory Sample Number | S101R2 | S101D | S106 | S106D | S108 | S082 | 82RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| DICHLOROBIPHENYL-OL UNK (25 07) | | | 14 J | | | | |
| NAPTHYL UNK MW-270 (29 80) | | | 14 J | | | | |
| PAH UNK ,POSS CHLORO (23 22) | | | 12 J | | | | |
| METHANONE, DIPHENYL- (22 10) | | | 12 J | | | | |
| CHLOROBIPHENYL UNK. (32.67) | | | 12 J | | | | |
| CHLOROBIPHENYL-OL UNK (23 03) | | | 11 J | | | | |
| BENZOFURAN UNK (35 75) | | | 10 J | | | | |
| ETHANONE, 1-PHENYL (13.45) | | | 10 JN | | | | |
| METHOXYCHLOR (41 95) | | | 9 J | | | | |
| UNKNOWN CHLOROPHENYL AROM. (36.65) | | | 9 J | | | | |
| UNK. ALIPHATIC ACID (34 10) | | | 8 R | | | | |
| BENZOIC ACID (18.30) | | | | | | 2300 R | |
| BENZENESULFONAMIDE (22 27) | | | | | | 1100 JN | |
| BENZENE, METHOXY, UNK. (16.5) | | | | | | 480 J | |
| EB^NZENESULFONAMIDE, CHLORO UNK (23 87) | | | | | | 310 R | |
| BENZENES, UNK MIX (21 35) | | | | | | 300 J | |
| BROMINATED AROMATIC UNK (14 35) | | | | | | 230 J | |
| BROMOBENZOIC ACID UNK (19 83) | | | | | | 140 J | |
| BROMOBENZOIC ACID UNK (20 17) | | | | | | 120 J | |
| UNKNOWN SUBSTITUTED BENZENE (22 93) | | | | | | 195 J | |
| BROMOALIPHATIC UNK (9.63) | | | | | | 86 JN | |
| BENZAMIDE (18 93) | | | | | | 72 J | |
| CHLOROBENZOIC ACID UNK. (19 08) | | | | | | 63 J | |
| UNK. BIPHENYL (27.19) | | | | | | 55 J | |
| UNK ALIPHATIC (8 47) | | | | | | 53 R | |
| MIX ACID/PAH (23 20)) | | | | | | 52 J | |
| PYRIDINE, METHYLATED UNK (13 00) | | | | | | 44 J | |
| UNK CHLOROALIPHATIC (11.00) | | | | | | 40 J | |
| BENZOYL UNK (24 18) | | | | | | 39 J | |
| BENZOYL UNK (12 07) | | | | | | 34 J | |
| NITROBENZENE UNK (13 47) | | | | | | 31 J | |
| SULFONATED PHENYL UNK (28 92) | | | | | | 29 J | |
| UNKNOWN (30 30) | | | | | | 27 J | |
| UNKNOWN SULFONATED BENZENE (12 43) | | | | | | 25 J | |
| UNK. CYANOBENZENE (20 80) | | | | | | 24 J | |
| BENZOIC ACID (19 05) | | | | | | | 2800 R |
| UNK BENZENEMETHANOL (17 43) | | | | | | | 1100 J |
| ALKOXYBENZENE UNK (16 75) | | | | | | | 610 J |

| EXTRACTABL 'RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam .umber | RNS GW GUB | RNS GW GUBDL | RNS GW RW1 | RNS GW RW1DL | RNS GW RW1 107 | RNS GW S12 | RNS GW S12RE |
| Laboratory Sample Number | S101R2 | S101D | S108 | S108D | S108 | S082 | S082RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIXTURE UNK. AROMATIC/ALIPH (21 50) | | | | | | | 290 J |
| BENZENESULFONAMIDE (21 90) | | | | | | | 280 JN |
| UNKNOWN AROMATIC (28 62) | | | | | | | 280 J |
| BENZENESULFONAMIDE, CHLORO (23 55) | | | | | | | 260 J |
| BROMOALIPHATIC UNK (10 87) | | | | | | | 220 JN |
| BENZOIC ACID, BROMO- (20 18) | | | | | | | 160 J |
| BENZAMIDE (19 47) | | | | | | | 140 JN |
| UNKNOWN AROMATIC (22 88) | | | | | | | 130 J |
| UNKNOWN AROMATIC (22 62) | | | | | | | 130 J |
| MIX DICHLOROPHENOL/OTHER (15 85) | | | | | | | 110 J |
| UNKNOWN AROMATIC (28 85) | | | | | | | 88 J |
| BENZONITRILE (13 25) | | | | | | | 77 JN |
| UNK. NITROBENZENE (14 05) | | | | | | | 70 J |
| UNKNOWN BIPHENYL-OL (21 03) | | | | | | | 69 J |
| METHANE, DICHLORO-, +UNK (11 83) | | | | | | | 62 J |
| A BENZENESULFONAMIDE, UNK (30 42) | | | | | | | 62 J |
| MIX- UNKNOWN (13 72) | | | | | | | 56 J |
| ETHANONE, 1-PHENYL- (14 38) | | | | | | | 51 JN |
| UNK AROMATIC (23 98) | | | | | | | 37 J |
| UNK- BENZOYL (12 95) | | | | | | | 36 J |
| UNK. DICHLOROSULFONYLBENZ (29.95) | | | | | | | 29 J |
| CYCLOHEXANOL UNK. (12 65) | | | | | | | |
| CYCLIC ALIPHATIC HYDROCARB. (13.48) | | | | | | | |
| UNK CYCLIC ALIPHATIC (9 00) | | | | | | | |
| BENZENESULFONAMIDE (21.88) | | | | | | | |
| SULFONATED BENZENE UNK (25.95) | | | | | | | |
| MIXTURE AROMATIC UNKNOWN (21 12) | | | | | | | |
| METHOXYBENZENE UNK (16.30) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23.50) | | | | | | | |
| BIPHENYL UNK. (26 72) | | | | | | | |
| METHANONE, DIPHENYL- (22.18) | | | | | | | |
| BENZOIC ACID (15 00) | | | | | | | |
| HYDROXYBIPHENYL UNK (27 09) | | | | | | | |
| SULFONATED BENZENE (18 80) | | | | | | | |
| UNK. ALIPHATIC (9 05) | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.92) | | | | | | | |
| N-CONTAINING ALIPHATIC UNK (16 05) | | | | | | | |
| BIPHENYL -OL UNK (20 62) | | | | | | | |
| BIPHENYL/AL ATIC AMINE UNK (24 37) | | | | | | | |
| CHLOROP ULFOAMIDE UNK (23.18) | | | | | | | |

EXTRACTABI RGANIC ANALYSIS

| ERM Midwest San ar | RNS GW GUB | RNS GW GUBDL | NS GW RW1 | RNS GW RW1DL | RNS GW RW1 107 | RNS GW S12 | S12RE |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Nu ar | S101R2 | S101D | S106 | S106D | S108 | S082 | d2RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| BENZENEDIOL UNK ISOMER (16 68) | | | | | | | |
| ALIPHATIC UNKNOWN (10 72) | | | | | | | |
| MIX-ALIPHATIC UNK +BENZ ACID (18 48) | | | | | | | |
| MIX-BENZOIC ACID+UNK. ALIPHATIC (17 27) | | | | | | | |
| MIX 98-10-2+ALIPHATIC UNK (22 60) | | | | | | | |
| MIX- UNK ALIPHATICS (14 25) | | | | | | | |
| MIX-NITROPHENYLETHNONE+UNK (20 27) | | | | | | | |
| MIX-ALKYLBENZENE+OTHER UNK. (16.43) | | | | | | | |
| MIX-BROMOBENZOIC ACID+OTHER (20.57) | | | | | | | |
| MIX-UNKNOWN SULFBENZENE+OTHER (23.57) | | | | | | | |
| MIX-98-10-2+ UNK. OTHER (21.95) | | | | | | | |
| UNK. PHENYL/AROMATIC (23 03) | | | | | | | |
| MIX-98-10-2+UNKNOWN ALIPHAT. (21.49) | | | | | | | |
| UNKNOWN PHENYL/AROMATIC (23.90) | | | | | | | |
| MIX-BENZOIC ACID+UNKNOWN (15 95) | | | | | | | |
| BIPHENYL/NAPTHALENE UNK. (27.30) | | | | | | | |
| UNK AROMATIC (22.75) | | | | | | | |
| AMINOPHENYLETHANONE+ UNK. (20.95) | | | | | | | |
| BENZALDEHYDE (11 53) | | | | | | | |
| CHLOROBENZENE UNK. (19 33) | | | | | | | |
| CHLOROBENZENE UNK. (19.10) | | | | | | | |
| UNK. AROMATIC/BENZOTRIAZO (30.15) | | | | | | | |
| ETHANDIONE, DIPHENYL- (24 42) | | | | | | | |
| BENZOYL UNK (33 69) | | | | | | | |
| BENZOYL UNK (33.27) | | | | | | | |
| MIX-AROMATIC NITRILE+OTHER (11 83) | | | | | | | |
| MIX-AROMATIC NITRILE+OTHER (12 03)) | | | | | | | |
| BENZENESULFONAMIDE (22.22) | | | | | | | |
| AMINOPHENYLEHANONE UNK. (20.53) | | | | | | | |
| UNK BIPHENYL/NAPTHALENE (27.29) | | | | | | | |
| UNK AROMATIC ACID (16.83) | | | | | | | |
| MIX-SULFUR+UNK (26 35) | | | | | | | |
| METHOXYALKYLBENZENE UNK (16.33) | | | | | | | |
| UNKNOWN BIPHENYL-OL (20 70) | | | | | | | |
| MIX-4-METHOXYBENZOIC ACID+UNK. (19.42) | | | | | | | |
| ETHANONE, AMINOPHENYL UNK (19 15) | | | | | | | |
| UNK AROMATIC ALCOHOL (17 58) | | | | | | | |
| MIX-UNKNOWNS (25 38) | | | | | | | |
| BENZENESULFONAMIDE,METHYL UNK (23 18) | | | | | | | |
| UNK ALIPHATIC (38 20) | | | | | | | |

| EXTRACTABI ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest San, .umber | RNS GW GUB | RNS GW GUBDL | RNS GW RW1 | RNS GW RW1DL | RNS GW RW1 107 | RNS GW S12 | RNS GW S12RE |
| Laboratory Sample Number | S101R2 | S101D | S106 | S106D | S108 | S082 | S082RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| DICHLOROPHENOL UNK. ISO (15 47) | | | | | | | |
| BENZENESULFONAMIDE, CHLORO UNK (23 72) | | | | | | | |
| ALKOXYBENZENE UNK (16 00) | | | | | | | |
| UNK. ALIPHATIC HC (30.60) | | | | | | | |
| UNK ALIPHATIC HC (29.72) | | | | | | | |
| BENZOIC ACID (15 20) | | | | | | | |
| UNK. NITROGEN CPD MW-361 (37 03) | | | | | | | |
| UNK. ALIPHATIC HC (31.57) | | | | | | | |
| BIPHENYL/NAPTHALENE UNK (26 75) | | | | | | | |
| UNK ALIPHATIC MW-284 (26.90) | | | | | | | |
| UNK. ALIPHATIC (28 84) | | | | | | | |
| UNKNOWN (32.67) | | | | | | | |
| UNK. ALKOXYBENZENE (16 25) | | | | | | | |
| SULFUR, MW-(S8) (26 62) | | | | | | | |
| METHOXYBENZENE UNK (16.32) | | | | | | | |
| BIPHENYL, UNK (27.20) | | | | | | | |
| BIPHENYL-OL UNK (20 65) | | | | | | | |
| AMINOPHENYL EHTANONE UNK. (17 45) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 38) | | | | | | | |
| BROMOBENZOIC ACID (19.28) | | | | | | | |
| BENZENEMETHANESULFONAMIDE+UN (30 50) | | | | | | | |
| UNK. ALIPHATIC (12.62) | | | | | | | |
| SULFONYLBENZENE UNK (18 80) | | | | | | | |
| METHOXYALKYLBENZENE UNK (15.97) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 55) | | | | | | | |
| BENZOIC ACID (15.03) | | | | | | | |
| CYCLOHEXENE UNK. (14.52) | | | | | | | |
| METHANONE, DIPHENYL- (22.18) | | | | | | | |
| BROMOBENZOIC ACID UNK. ISO. (19 60) | | | | | | | |
| BENZENEMETHANOL UNK (16.48) | | | | | | | |
| CHLOROBENZOIC ACID UNK (18 25) | | | | | | | |
| ALKYLBENZENEAMINE UNK. (15 32) | | | | | | | |
| ALIPHATIC ALCOHOL UNK (10 08) | | | | | | | |
| BROMOPHENOL UNK (17 00) | | | | | | | |
| UNK ALIPHATIC (12 18) | | | | | | | |
| UNK ALIPHATIC (22 73)) | | | | | | | |
| UNK. ALKOXYBENZENE (16.25) | | | | | | | |
| MIX N-CONTAINING AROMATIC (26.63) | | | | | | | |
| BENZENESULF AMIDE+UNK (21 80) | | | | | | | |
| MIX AL IPAHT +98-10-2 (21 22) | | | | | | | |

EXTRACTAB' 'RGANIC ANALYSIS

| ERM-Midwest S. ...er | RNS-GW-GUB | RNS-GW-GUBL | NS-GW-RW1 | RNS-GW-RW1DL | RNS-GW-RW1-107 | RNS GW-S12 | / S12RE |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S101R2 | S101D | S108 | S108D | S108 | S082 | 82RE |
| Remarks | | Dilution | | Dilution | | | Reextraction |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIX BIPHENYL+FLUORIN. ALIPH. (13.18) | | | | | | | |
| UNK. ALKOXYBIPHENYL (26.85) | | | | | | | |
| METHOXYBENZENE UNK. (16.38) | | | | | | | |
| BENZENE, 2-(BROMOMETHYL)-1-M (22.82) | | | | | | | |
| AMINOPHENYLETHANONE UNK. (20.35) | | | | | | | |
| BIPHENYL -OL UNK. (20.68) | | | | | | | |
| UNK. BIPHENYL/ALKYL (27.19) | | | | | | | |
| NITROBENZENE UNK. (22.52) | | | | | | | |
| ETHANDIONE, DIPHENYL- (24.42) | | | | | | | |
| CHLORINATED AROMATIC UNK. (36.92) | | | | | | | |
| BROMOBENZOIC ACID UNK. ISO. (19.35) | | | | | | | |
| AROMATIC UNK. POSS. PHENOL (17.52) | | | | | | | |
| SULFONATED BENZENE UNK. (28.04) | | | | | | | |
| METHANONE, DIPHENYL (22.22) | | | | | | | |
| AROMATICACID UNK. (16.55) | | | | | | | |
| MIX UNK. ALIPHATICS (11.77) | | | | | | | |
| MIX UNK. AROMATICS (18.87) | | | | | | | |
| METHOXYCHLOR (38.25) | | | | | | | |
| CHLOROBIPHENYL UNK. (28.90) | | | | | | | |
| ETHANONE, 1-PHENYL- (13.53) | | | | | | | |
| DICHLOROBIPHENYL-OL UNK. (25.17) | | | | | | | |
| ALKOXYBENZENE UNK. (18.30) | | | | | | | |
| BENZENESULFONAMIDE (20.95) | | | | | | | |

EXTRACTABI ORGANIC ANALYSIS

| ERM Midwest San. Number | RNS GW S18 | RNS GW S19 | RNS GW S19DL | RNS GW S22 | RNS GW S22RE | RNS GW S8 | RNS GW S8DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S104 | S100 | S100D | S105 | S105RA | S096RE | S096D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIX- 98-10-2 + UNK ALIPH AM (22 08) | | | | | | | |
| MIX - UNK BENZAMINE+98-10-2 (21 07) | | | | | | | |
| BENZENE, METHOXY, UNK (16 25) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK (23 55) | | | | | | | |
| CHLORO-AROMATIC UNK MW-262 (26.65) | | | | | | | |
| UNKNOWN SULFONATED BENZENE (18 75) | | | | | | | |
| OXYAROMATIC UNKNOWN MW-244 (27.07) | | | | | | | |
| ALIPHATIC UNKNOWN (9 00) | | | | | | | |
| MIX-BIPHENYL-OL-OTHER UNK. (20.57) | | | | | | | |
| UNK ALIPHATIC HYDROCARB (13.23) | | | | | | | |
| MIX 70-55-3 + UNK. (23 02) | | | | | | | |
| CYCLOHEXANOL UNKNOWN,POSS BR (14 20) | | | | | | | |
| UNKNOWN AROMATIC (25.18) | | | | | | | |
| MIX-UNKNOWN AROMATIC+ OTHER (15 92) | | | | | | | |
| UNKNOWN CYCLOHEXANOL (12 67) | | | | | | | |
| UNKNOWN CYCLOHEXANOL (9.67) | | | | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17.00) | | | | | | | |
| UNKNOWN AROMATIC AMINE (26.87) | | | | | | | |
| UNK ALIPHATIC KETONE/ALD (10 67) | | | | | | | |
| UNKNOWN ALKOXYBENZENE (18 20) | | | | | | | |
| UNK. ALKOXYBIPHENYL, BENZ. (24 30) | | | | | | | |
| BENZENESULFONAMIDE (21.00) | | | 1800 JN | | | | 3000 JN |
| UNKNOWN ALKOXYBENZENE (16 25) | | | | | | | |
| MIX AR.AMINE UNK +DICHLOROBENZ (13 15) | | | | | | | |
| CHLOROBIPHENYL/NAPTHALENE U (26 77) | | | | | | | |
| UNKNOWN NITROBENZENE (22.75) | | | | | | | |
| UNKNOWN METHOXYBENZENE (16.32) | | | | | | | |
| MIX-CHLOROALKYLBENZENEAMINE (21.08) | | | | | | | |
| UNK NITROBENZENEAMINE (22.43) | | | | | | | |
| ETHANDIONE, DIPHENYL (24.33) | | | | | | | |
| BIPHENYL-OL/NAPTHALENE UNK. (27.07) | | | | | | | |
| CHLOROBIPHENYL-OL UNK. (28.79) | | | | | | | |
| BIPHENYL-OL UNK. (20 58) | | | | | | | |
| DICHLOROPHENOLBENZENESULFON (27 94) | | | | | | | |
| HALOGENATED AROMATIC, MW-326 (27 34) | | | | | | | |
| PHENYLETHANDIOL (17 38) | | | | | | | |
| MIX 76-01-7 (11 68) | | | | | | | |

| EXTRACTABI ^RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest San ber | RNS GW S18 | RNS GW S19 | NS GW S19DL | RNS GW S22 | RNS GW S22RE | RNS GW S8 | W S8DL |
| Laboratory Sample Number | S104 | S100 | S100D | S105 | S105RA | S096RE | S096D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| DICHLOROBIPHENYL-OL UNK (25 07) | | | | | | | |
| NAPTHYL UNK. MW-270 (29 80) | | | | | | | |
| PAH UNK ,POSS. CHLORO (23 22) | | | | | | | |
| METHANONE, DIPHENYL- (22 10) | | | | | | | |
| CHLOROBIPHENYL UNK. (32 67) | | | | | | | |
| CHLOROBIPHENYL-OL UNK (23 03) | | | | | | | |
| BENZOFURAN UNK. (35.75) | | | | | | | |
| ETHANONE, 1-PHENYL (13.45) | | | | | | | |
| METHOXYCHLOR (41 95) | | | | | | | |
| UNKNOWN CHLOROPHENYL AROM. (36.65) | | | | | | | |
| UNK ALIPHATIC ACID (34.10) | | | | | | | |
| BENZOIC ACID (18.30) | | | | | | | |
| BENZENESULFONAMIDE (22.27) | | | | | | | |
| BENZENE, METHOXY, UNK (16 5) | | | | | | | |
| EBENZENESULFONAMIDE, CHLORO UNK (23 87) | | | | | | | |
| BENZENES, UNK MIX (21.35) | | | | | | | |
| BROMINATED AROMATIC UNK (14 35) | | | | | | | |
| BROMOBENZOIC ACID UNK. (19 83) | | | | | | | |
| BROMOBENZOIC ACID UNK. (20 17) | | | | | | | |
| UNKNOWN SUBSTITUTED BENZENE (22.93) | | | | | | | |
| BROMOALIPHATIC UNK. (9.63) | | | | | | | |
| BENZAMIDE (18.93) | | | | | | | |
| CHLOROBENZOIC ACID UNK (19 08) | | | | | | | |
| UNK BIPHENYL (27 19) | | | | | | | |
| UNK. ALIPHATIC (8 47) | | | | | | | |
| MIX ACID/PAH (23.20)) | | | | | | | |
| PYRIDINE, METHYLATED UNK. (13.00) | | | | | | | |
| UNK. CHLOROALIPHATIC (11.00) | | | | | | | |
| BENZOYL UNK. (24 18) | | | | | | | |
| BENZOYL UNK (12.07) | | | | | | | |
| NITROBENZENE UNK (13 47) | | | | | | | |
| SULFONATED PHENYL UNK. (28.92) | | | | | | | |
| UNKNOWN (30.30) | | | | | | | |
| UNKNOWN SULFONATED BENZENE (12 43) | | | | | | | |
| UNK CYANOBENZENE (20 80) | | | | | | | |
| BENZOIC ACID (19 05) | | | | | | | |
| UNK BENZENEMETHANOL (17 43) | | | | | | | |
| ALKOXYBENZENE UNK (16 75) | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS-GW-S18 | RNS-GW-S19 | RNS-GW-S19DL | RNS-GW-S22 | RNS-GW-S22RE | RNS-GW-S6 | RNS-GW-S6DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S104 | S100 | S100D | S105 | S105RA | S096RE | S096D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIXTURE UNK. AROMATIC/ALIPH (21.50) | | | | | | | |
| BENZENESULFONAMIDE (21.90) | | | | | | | |
| UNKNOWN AROMATIC (28.62) | | | | | | | |
| BENZENESULFONAMIDE, CHLORO (23.55) | | | | | | | |
| BROMOALIPHATIC UNK (10.87) | | | | | | | |
| BENZOIC ACID, BROMO- (20.18) | | | | | | | |
| BENZAMIDE (19.47) | | | | | | | |
| UNKNOWN AROMATIC (22.88) | | | | | | | |
| UNKNOWN AROMATIC (22.62) | | | | | | | |
| MIX DICHLOROPHENOL/OTHER (15.85) | | | | | | | |
| UNKNOWN AROMATIC (28.85) | | | | | | | |
| BENZONITRILE (13.25) | | | | | | | |
| UNK. NITROBENZENE (14.05) | | | | | | | |
| UNKNOWN BIPHENYL-OL (21.03) | | | | | | | |
| METHANE, DICHLORO-, +UNK (11.83) | | | | | | | |
| A BENZENESULFONAMIDE, UNK. (30.42) | | | | | | | |
| MIX- UNKNOWN (13.72) | | | | | | | |
| ETHANONE, 1-PHENYL- (14.38) | | | | | | | |
| UNK. AROMATIC (23.98) | | | | | | | |
| UNK. BENZOYL (12.95) | | | | | | | |
| UNK. DICHLOROSULFONYLBENZ (29.95) | | | | | | | |
| CYCLOHEXANOL UNK. (12.65) | 3 R | | | | | | |
| CYCLIC ALIPHATIC HYDROCARB (13.48) | 3 R | | | | | | |
| UNK. CYCLIC ALIPHATIC (9.00) | 2 R | | | | | | |
| BENZENESULFONAMIDE (21.88) | | 1600 JN | | | | | |
| SULFONATED BENZENE UNK. (25.95) | | 650 J | | | | | |
| MIXTURE AROMATIC UNKNOWN (21.12) | | 300 J | | | | | |
| METHOXYBENZENE UNK. (16.30) | | 120 J | | | | | |
| CHLOROBENZENESULFONAMIDE UNK (23.50) | | 18 J | | | | | |
| BIPHENYL UNK (26.72) | | 10 J | | | | | |
| METHANONE, DIPHENYL- (22.18) | | 9 JN | | | | | |
| BENZOIC ACID (15.00) | | 8 R | | | | | |
| HYDROXYBIPHENYL UNK (27.09) | | 7 J | | | | | |
| SULFONATED BENZENE (18.80) | | 6 J | | | | | |
| UNK. ALIPHATIC (9.05) | | 5 R | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.92) | | 4 JN | | | | | |
| N-CONTAINING ALIPHATIC UNK (16.05) | | 3 J | | | | | |
| BIPHENYL -OL UNK (20.62) | | 3 J | | | | | |
| BIPHENYL/ALIPHATIC AMINE UNK. (24.37) | | 2 J | | | | | |
| CHLOROBEN SULFOAMIDE UNK (23.18) | | 2 J | | | | | |

| EXTRACTABI RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sa ber | RNS GW S18 | RNS GW S19 | IS GW S19DL | RNS GW S22 | RNS GW S22RE | RNS GW S6 | W S6DL |
| Laboratory Sample Nu er | S104 | S100 | S100D | S105 | S105RA | S096RE | J96D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| BENZENEDIOL UNK ISOMER (16 68) | | 2 J | | | | | |
| ALIPHATIC UNKNOWN (10.72) | | 2 R | | | | | |
| MIX-ALIPHATIC UNK +BENZ ACID (18.48) | | | | 19,000 R | | | |
| MIX-BENZOIC ACID+UNK ALIPHATIC (17.27) | | | | 12,000 R | | | |
| MIX 98-10-2+ALIPHATIC UNK (22.60) | | | | 5900 R | | | |
| MIX- UNK ALIPHATICS (14.25) | | | | 4300 R | | | |
| MIX-NITROPHENYLETHNONE+UNK (20.27) | | | | 4100 J | | | |
| MIX-ALKYLBENZENE+OTHER UNK (16 43) | | | | 3900 J | | | |
| MIX-BROMOBENZOIC ACID+OTHER (20 57) | | | | 3900 J | | | |
| MIX-UNKNOWN SULFBENZENE+OTHER (23.57) | | | | 2900 J | | | |
| MIX-98-10-2+ UNK. OTHER (21.95) | | | | 2500 J | | | |
| UNK. PHENYL/AROMATIC (23.03) | | | | 2400 J | | | |
| MIX-98-10-2+UNKNOWN ALIPHAT. (21.49) | | | | 2400 J | | | |
| UNKNOWN PHENYL/AROMATIC (23 90) | | | | 2200 J | | | |
| MIX-BENZOIC ACID+UNKNOWN (15 95) | | | | 1600 J | | | |
| BIPHENYL/NAPTHALENE UNK. (27.30) | | | | 1500 J | | | |
| UNK. AROMATIC (22.75) | | | | 1200 J | | | |
| AMINOPHENYLETHANONE+ UNK. (20.95) | | | | 1200 J | | | |
| BENZALDEHYDE (11 53) | | | | 730 JN | | | |
| CHLOROBENZENE UNK (19 33) | | | | 560 J | | | |
| CHLOROBENZENE UNK. (19 10) | | | | 550 J | | | |
| UNK. AROMATIC/BENZOTRIAZO (30 15) | | | | 490 J | | | |
| ETHANDIONE, DIPHENYL- (24.42) | | | | 390 JN | | | |
| BENZOYL UNK. (33 69) | | | | 380 J | | | |
| BENZOYL UNK. (33.27) | | | | 370 J | | | |
| MIX-AROMATIC NITRILE+OTHER (11 83) | | | | 320 J | | | |
| MIX-AROMATIC NITRILE+OTHER (12 03)) | | | | 300 J | | | |
| BENZENESULFONAMIDE (22 22) | | | | | | 1700 JN | |
| AMINOPHENYLEHANONE UNK. (20 53) | | | | | | 450 J | |
| UNK. BIPHENYL/NAPTHALENE (27 29) | | | | | | 330 J | |
| UNK. AROMATIC ACID (16 83) | | | | | | 310 J | |
| MIX-SULFUR+UNK. (26.35) | | | | | | 210 J | |
| METHOXYALKYLBENZENE UNK (16 33) | | | | | | 180 J | |
| UNKNOWN BIPHENYL-OL (20 70) | | | | | | 150 J | |
| MIX-4-METHOXYBENZOIC ACID+UNK (19.42) | | | | | | 150 JN | |
| ETHANONE, AMINOPHENYL UNK. (19 15) | | | | | | 100 J | |
| UNK. AROMATIC ALCOHOL (17 58) | | | | | | 61 J | |
| MIX-UNKNOWNS (25 38) | | | | | | 60 J | |
| BENZENESULFONAMIDE,METHYL UNK (23 18) | | | | | | 44 J | |
| UNK. ALIPHATIC (38 20) | | | | | | 40 J | |

| EXTRACTABI RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sam... Number | RNS-GW-S18 | RNS-GW-S19 | RNS-GW-S19DL | RNS-GW-S22 | RNS-GW-S22RE | RNS-GW-S8 | RNS-GW-S8DL |
| Laboratory Sample Number | S104 | S100 | S100D | S105 | S105RA | S096RE | S096D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| DICHLOROPHENOL UNK ISO (15 47) | | | | | | 38 J | |
| BENZENESULFONAMIDE, CHLORO UNK (23 72) | | | | | | 32 JN | |
| ALKOXYBENZENE UNK (16 00) | | | | | | 28 J | |
| UNK. ALIPHATIC HC (30 60) | | | | | | 27 R | |
| UNK ALIPHATIC HC (29 72) | | | | | | 25 R | |
| BENZOIC ACID (15.20) | | | | | | 23 R | |
| UNK. NITROGEN CPD MW-361 (37 03) | | | | | | 22 J | |
| UNK. ALIPHATIC HC (31 57) | | | | | | 22 R | |
| BIPHENYL/NAPTHALENE UNK. (26 75) | | | | | | 22 J | |
| UNK ALIPHATIC MW-284 (26.90) | | | | | | 19 R | |
| UNK ALIPHATIC (28.84) | | | | | | 16 R | |
| UNKNOWN (32.67) | | | | | | 16 J | |
| UNK. ALKOXYBENZENE (16 25) | | | | | | | 750 J |
| SULFUR, MW-(S8) (26.62) | | | | | | | |
| METHOXYBENZENE UNK. (16 32) | | | | | | | |
| BIPHENYL, UNK (27.20) | | | | | | | |
| BIPHENYL-OL UNK (20.65) | | | | | | | |
| AMINOPHENYL EHTANONE UNK (17.45) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK (23.38) | | | | | | | |
| BROMOBENZOIC ACID (19.28) | | | | | | | |
| BENZENEMETHANESULFONAMIDE+UN (30 50) | | | | | | | |
| UNK ALIPHATIC (12 62) | | | | | | | |
| SULFONYLBENZENE UNK. (18.80) | | | | | | | |
| METHOXYALKYLBENZENE UNK (15.97) | | | | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 55) | | | | | | | |
| BENZOIC ACID (15 03) | | | | | | | |
| CYCLOHEXENE UNK. (14.52) | | | | | | | |
| METHANONE, DIPHENYL- (22.18) | | | | | | | |
| BROMOBENZOIC ACID UNK. ISO. (19 60) | | | | | | | |
| BENZENEMETHANOL UNK. (16.48) | | | | | | | |
| CHLOROBENZOIC ACID UNK (18 25) | | | | | | | |
| ALKYLBENZENEAMINE UNK (15 32) | | | | | | | |
| ALIPHATIC ALCOHOL UNK (10 08) | | | | | | | |
| BROMOPHENOL UNK (17.00) | | | | | | | |
| UNK ALIPHATIC (12 18) | | | | | | | |
| UNK ALIPHATIC (22 73)) | | | | | | | |
| UNK ALKOXYBENZENE (16 25) | | | | | | | |
| MIX N-CONTAINING AROMATIC (26 63) | | | | | | | |
| BENZENESUL ONAMIDE+UNK (21 80) | | | | | | | |
| MIX ALIPAH K +98-10-2 (21 2?) | | | | | | | |

| EXTRACTAB[illegible]GANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest S[illegible]ber | RNS-GW-S18 | RNS-GW-S18 | IS-GW-S19DL | RNS-GW-S22 | RNS-GW-S22RE | RNS-GW-S6 | [illegible]N-S6DL |
| Laboratory Sample Number | S104 | S100 | S100D | S106 | S105RA | S096RE | [illegible]096D |
| Remarks | | | Dilution | Duplicate of RNS-GW-S18 | Reextraction | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | | | | |
| MIX BIPHENYL+FLUORIN. ALIPH. (13.18) | | | | | | | |
| UNK. ALKOXYBIPHENYL (26.85) | | | | | | | |
| METHOXYBENZENE UNK. (16.38) | | | | | | | |
| BENZENE, 2-(BROMOMETHYL)-1-M (22.82) | | | | | | | |
| AMINOPHENYLETHANONE UNK. (20.35) | | | | | | | |
| BIPHENYL -OL UNK. (20.68) | | | | | | | |
| UNK. BIPHENYL/ALKYL (27.19) | | | | | | | |
| NITROBENZENE UNK. (22.52) | | | | | | | |
| ETHANDIONE, DIPHENYL- (24.42) | | | | | | | |
| CHLORINATED AROMATIC UNK. (36.92) | | | | | | | |
| BROMOBENZOIC ACID UNK. ISO. (19.35) | | | | | | | |
| AROMATIC UNK. POSS. PHENOL (17.52) | | | | | | | |
| SULFONATED BENZENE UNK. (28.04) | | | | | | | |
| METHANONE, DIPHENYL (22.22) | | | | | | | |
| AROMATICACID UNK. (16.55) | | | | | | | |
| MIX UNK. ALIPHATICS (11.77) | | | | | | | |
| MIX UNK. AROMATICS (18.87) | | | | | | | |
| METHOXYCHLOR (38.25) | | | | | | | |
| CHLOROBIPHENYL UNK. (28.90) | | | | | | | |
| ETHANONE, 1-PHENYL- (13.53) | | | | | | | |
| DICHLOROBIPHENYL-OL UNK. (25.17) | | | | | | | |
| ALKOXYBENZENE UNK. (18.30) | | | | | | | |
| BENZENESULFONAMIDE (20.95) | | | | | | | |

| EXTRACTAB' 'RGANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM Midwest Sam... Number | RNS GW-T1 | RNS GW-T1DL | RNS-GW-T2 | RNS-GW-T2DL |
| Laboratory Sample Number | S098RE | S098D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| MIX 98-10-2 + UNK ALIPH AM (22 08) | | | | |
| MIX - UNK BENZAMINE+98-10-2 (21.07) | | | | |
| BENZENE, METHOXY, UNK (16 25) | | | | |
| CHLOROBENZENESULFONAMIDE UNK (23 55) | | | | |
| CHLORO-AROMATIC UNK. MW-262 (26.65) | | | | |
| UNKNOWN SULFONATED BENZENE (18.75) | | | | |
| OXYAROMATIC UNKNOWN MW-244 (27 07) | | | | |
| ALIPHATIC UNKNOWN (9.00) | | | | |
| MIX-BIPHENYL-OL-OTHER UNK (20 57) | | | | |
| UNK ALIPHATIC HYDROCARB (13 23) | | | | |
| MIX 70-55-3 + UNK (23 02) | | | | |
| CYCLOHEXANOL UNKNOWN,POSS BR (14.20) | | | | |
| UNKNOWN AROMATIC (25.18) | | | | |
| MIX-UNKNOWN AROMATIC+ OTHER (15 92) | | | | |
| UNKNOWN CYCLOHEXANOL (12 67) | | | | |
| UNKNOWN CYCLOHEXANOL (9.67) | | | | |
| UNKNOWN IMIDAZOLIDINEDIONE (17 00) | | | | |
| UNKNOWN AROMATIC AMINE (26.87) | | | | |
| UNK ALIPHATIC KETONE/ALD (10.67) | | | | |
| UNKNOWN ALKOXYBENZENE (18 20) | | | | |
| UNK ALKOXYBIPHENYL, BENZ. (24.30) | | | | |
| BENZENESULFONAMIDE (21.00) | 1100 JN | 2900 JN | | |
| UNKNOWN ALKOXYBENZENE (16 25) | | | | |
| MIX AR AMINE UNK.+DICHLOROBENZ (13 15) | | | | |
| CHLOROBIPHENYL/NAPTHALENE U (26 77) | | | | |
| UNKNOWN NITROBENZENE (22.75) | | | | |
| UNKNOWN METHOXYBENZENE (16 32) | | | | |
| MIX-CHLOROALKYLBENZENEAMINE (21 08) | | | | |
| UNK NITROBENZENEAMINE (22 43) | | | | |
| ETHANDIONE, DIPHENYL (24 33) | | | | |
| BIPHENYL-OL/NAPTHALENE UNK (27 07) | | | | |
| CHLOROBIPHENYL-OL UNK (28 79) | | | | |
| BIPHENYL-OL UNK (20 58) | | | | |
| DICHLOROPHENOLBENZENESULFON (27 94) | | | | |
| HALOGENATED AROMATIC, MW-326 (27 34) | | | | |
| PHENYLETHANDIOL (17.38) | | | | |
| MIX 76-01-7 (11 68) | | | | |

| EXTRACTAB' 'GANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest Sa. ber | RNS GW-T1 | RNS GW-T1DL | RNS GW-T2 | RNS GW-T2DL |
| Laboratory Sample Number | S098RE | S098D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| DICHLOROBIPHENYL-OL UNK (25 07) | | | | |
| NAPTHYL UNK MW-270 (29 80) | | | | |
| PAH UNK ,POSS CHLORO (23 22) | | | | |
| METHANONE, DIPHENYL- (22 10) | | | | |
| CHLOROBIPHENYL UNK (32 67) | | | | |
| CHLOROBIPHENYL-OL UNK (23.03) | | | | |
| BENZOFURAN UNK (35 75) | | | | |
| ETHANONE, 1-PHENYL (13 45) | | | | |
| METHOXYCHLOR (41 95) | | | | |
| UNKNOWN CHLOROPHENYL AROM (36.65) | | | | |
| UNK. ALIPHATIC ACID (34.10) | | | | |
| BENZOIC ACID (18.30) | | | | |
| BENZENESULFONAMIDE (22.27) | | | | |
| BENZENE, METHOXY, UNK (16.5) | | | | |
| EBENZENESULFONAMIDE, CHLORO UNK. (23 87) | | | | |
| BENZENES, UNK. MIX (21.35) | | | | |
| BROMINATED AROMATIC UNK. (14.35) | | | | |
| BROMOBENZOIC ACID UNK (19 83) | | | | |
| BROMOBENZOIC ACID UNK. (20 17) | | | | |
| UNKNOWN SUBSTITUTED BENZENE (22 93) | | | | |
| BROMOALIPHATIC UNK. (9.63) | | | | |
| BENZAMIDE (18 93) | | | | |
| CHLOROBENZOIC ACID UNK. (19.08) | | | | |
| UNK. BIPHENYL (27.19) | | | | |
| UNK ALIPHATIC (8.47) | | | | |
| MIX ACID/PAH (23.20)) | | | | |
| PYRIDINE, METHYLATED UNK. (13 00) | | | | |
| UNK. CHLCROALIPHATIC (11 00) | | | | |
| BENZOYL UNK (24.18) | | | | |
| BENZOYL UNK (12 07) | | | | |
| NITROBENZENE UNK (13 47) | | | | |
| SULFONATED PHENYL UNK (28 92) | | | | |
| UNKNOWN (30 30) | | | | |
| UNKNOWN SULFONATED BENZENE (12.43) | | | | |
| UNK CYANOBENZENE (20 80) | | | | |
| BENZOIC ACID (19 05) | | | | |
| UNK BENZENEMETHANOL (17 43) | | | | |
| ALKOXYBENZENE UNK (16 75) | | | | |

| EXTRACTABL[illegible]RGANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM Midwest San[illegible] Number | RNS GW-T1 | RNS GW-T1DL | RNS GW-T2 | RNS GW-T2DL |
| Laboratory Sample Number | S098RE | S098D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| MIXTURE UNK AROMATIC/ALIPH (21 50) | | | | |
| BENZENESULFONAMIDE (21 90) | | | | |
| UNKNOWN AROMATIC (28.62) | | | | |
| BENZENESULFONAMIDE, CHLORO (23.55) | | | | |
| BROMOALIPHATIC UNK (10 87) | | | | |
| BENZOIC ACID, BROMO- (20 18) | | | | |
| BENZAMIDE (19 47) | | | | |
| UNKNOWN AROMATIC (22 88) | | | | |
| UNKNOWN AROMATIC (22 62) | | | | |
| MIX DICHLOROPHENOL/OTHER (15.85) | | | | |
| UNKNOWN AROMATIC (28 85) | | | | |
| BENZONITRILE (13 25) | | | | |
| UNK. NITROBENZENE (14.05) | | | | |
| UNKNOWN BIPHENYL-OL (21 03) | | | | |
| METHANE, DICHLORO-, +UNK (11 83) | | | | |
| A BENZENESULFONAMIDE, UNK (30 42) | | | | |
| MIX- UNKNOWN (13 72) | | | | |
| ETHANONE, 1-PHENYL- (14 38) | | | | |
| UNK AROMATIC (23 98) | | | | |
| UNK. BENZOYL (12 95) | | | | |
| UNK DICHLOROSULFONYLBENZ. (29 95) | | | | |
| CYCLOHEXANOL UNK. (12 65) | | | | |
| CYCLIC ALIPHATIC HYDROCARB. (13.48) | | | | |
| UNK CYCLIC ALIPHATIC (9.00) | | | | |
| BENZENESULFONAMIDE (21.88) | | | | |
| SULFONATED BENZENE UNK. (25.95) | | | | |
| MIXTURE AROMATIC UNKNOWN (21 12) | | | | |
| METHOXYBENZENE UNK (16.30) | | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23.50) | | | | |
| BIPHENYL UNK. (26 72) | | | | |
| METHANONE, DIPHENYL- (22.18) | | | | |
| BENZOIC ACID (15 00) | | | | |
| HYDROXYBIPHENYL UNK (27.09) | | | | |
| SULFONATED BENZENE (18 80) | | | | |
| UNK ALIPHATIC (9 05) | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22.92) | | | | |
| N-CONTAINING ALIPHATIC UNK. (16 05) | | | | |
| BIPHENYL -OL UNK (20 62) | | | | |
| BIPHENYL/AL[illegible]ATIC AMINE UNK. (24 37) | | | | |
| CHLOROBE[illegible]SULFOAMIDE UNK (23 18) | | | | |

| EXTRACTAB' ?GANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM Midwest S ber | RNS GW T1 | RNS GW T1D. | RNS GW T2 | RNS GW T2DL |
| Laboratory Sample Number | S098RE | S098D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| BENZENEDIOL UNK. ISOMER (16 68) | | | | |
| ALIPHATIC UNKNOWN (10 72) | | | | |
| MIX-ALIPHATIC UNK.+BENZ ACID (18.48) | | | | |
| MIX-BENZOIC ACID+UNK. ALIPHATIC (17.27) | | | | |
| MIX 98-10-2+ALIPHATIC UNK. (22.60) | | | | |
| MIX- UNK. ALIPHATICS (14.25) | | | | |
| MIX-NITROPHENYLETHNONE+UNK. (20.27) | | | | |
| MIX-ALKYLBENZENE+OTHER UNK. (16.43) | | | | |
| MIX-BROMOBENZOIC ACID+OTHER (20 57) | | | | |
| MIX-UNKNOWN SULFBENZENE+OTHER (23 57) | | | | |
| MIX-98-10-2+ UNK. OTHER (21.95) | | | | |
| UNK. PHENYL/AROMATIC (23 03) | | | | |
| MIX-98-10-2+UNKNOWN ALIPHAT. (21.49) | | | | |
| UNKNOWN PHENYL/AROMATIC (23.90) | | | | |
| MIX-BENZOIC ACID+UNKNOWN (15.95) | | | | |
| BIPHENYL/NAPTHALENE UNK. (27.30) | | | | |
| UNK. AROMATIC (22.75) | | | | |
| AMINOPHENYLETHANONE+ UNK. (20 95) | | | | |
| BENZALDEHYDE (11.53) | | | | |
| CHLOROBENZENE UNK. (19 33) | | | | |
| CHLOROBENZENE UNK. (19.10) | | | | |
| UNK. AROMATIC/BENZOTRIAZO (30 15) | | | | |
| ETHANDIONE, DIPHENYL- (24 42) | | | | |
| BENZOYL UNK. (33 69) | | | | |
| BENZOYL UNK. (33 27) | | | | |
| MIX-AROMATIC NITRILE+OTHER (11.83) | | | | |
| MIX-AROMATIC NITRILE+OTHER (12.03)) | | | | |
| BENZENESULFONAMIDE (22.22) | | | | |
| AMINOPHENYLEHANONE UNK. (20 53) | | | | |
| UNK. BIPHENYL/NAPTHALENE (27.29) | | | | |
| UNK. AROMATIC ACID (16.83) | | | | |
| MIX-SULFUR+UNK. (26 35) | | | | |
| METHOXYALKYLBENZENE UNK. (16 33) | | | | |
| UNKNOWN BIPHENYL-OL (20 70) | | | | |
| MIX-4-METHOXYBENZOIC ACID+UNK. (19 42) | | | | |
| ETHANONE, AMINOPHENYL UNK. (19.15) | | | | |
| UNK. AROMATIC ALCOHOL (17 58) | | | | |
| MIX-UNKNOWNS (25 38) | | | | |
| BENZENESULFONAMIDE,METHYL UNK. (23.18) | | | | |
| UNK. ALIPHATIC (38 20) | | | | |

| EXTRACTABI ORGANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest San., umber | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | RNS-GW-T2DL |
| Laboratory Sample Number | S098RE | S098D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| DICHLOROPHENOL UNK. ISO. (15.47) | | | | |
| BENZENESULFONAMIDE, CHLORO UNK (23 72) | | | | |
| ALKOXYBENZENE UNK (16 00) | | | | |
| UNK. ALIPHATIC HC (30.60) | | | | |
| UNK. ALIPHATIC HC (29 72) | | | | |
| BENZOIC ACID (15 20) | | | | |
| UNK NITROGEN CPD MW-361 (37 03) | | | | |
| UNK ALIPHATIC HC (31.57) | | | | |
| BIPHENYL/NAPTHALENE UNK (26.75) | | | | |
| UNK ALIPHATIC MW-284 (26.90) | | | | |
| UNK ALIPHATIC (28 84) | | | | |
| UNKNOWN (32.67) | | | | |
| UNK. ALKOXYBENZENE (16.25) | | | | |
| SULFUR, MW-(S8) (26 62) | 780 JN | | | |
| METHOXYBENZENE UNK (16 32) | 160 J | | | |
| BIPHENYL, UNK (27 20) | 72 J | | | |
| BIPHENYL-OL UNK. (20 65) | 71 J | | | |
| AMINOPHENYL EHTANONE UNK. (17.45) | 28 J | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 38) | 26 J | | | |
| BROMOBENZOIC ACID (19.28) | 23 J | | | |
| BENZENEMETHANESULFONAMIDE+UN (30.50) | 20 JN | | | |
| UNK. ALIPHATIC (12.62) | 14 J | | | |
| SULFONYLBENZENE UNK. (18.80) | 13 J | | | |
| METHOXYALKYLBENZENE UNK. (15.97) | 9 J | | | |
| CHLOROBENZENESULFONAMIDE UNK. (23 55) | 8 J | | | |
| BENZOIC ACID (15.03) | 8 R | | | |
| CYCLOHEXENE UNK. (14.52) | 8 J | | | |
| METHANONE, DIPHENYL- (22.18) | 6 JN | | | |
| BROMOBENZOIC ACID UNK. ISO. (19.60) | 6 J | | | |
| BENZENEMETHANOL UNK. (16.48) | 5 J | | | |
| CHLOROBENZOIC ACID UNK. (18.25) | 5 J | | | |
| ALKYLBENZENEAMINE UNK (15 32) | 4 J | | | |
| ALIPHATIC ALCOHOL UNK. (10.08) | 4 R | | | |
| BROMOPHENOL UNK. (17.00) | 4 J | | | |
| UNK ALIPHATIC (12 18) | 3 R | | | |
| UNK ALIPHATIC (22.73)) | 3 R | | | |
| UNK ALKOXYBENZENE (16.25) | | 430 J | | |
| MIX N-CONTAINING AROMATIC (26.63) | | | 1500 J | |
| BENZENESU AMIDE+UNK (21 80) | | | 1100 JN | |
| MIX ALIPA +98-10-2 (21 22) | | | 790 R | |

| EXTRACTABI ?GANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest San, ,ber | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | RNS-GW-T2DL |
| Laboratory Sample Number | S088RE | S088D | S099 | S099D |
| Remarks | | Dilution | | Dilution |
| Units | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE TICS | | | | |
| MIX BIPHENYL+FLUORIN ALIPH. (13 18) | | | 700 J | |
| UNK. ALKOXYBIPHENYL (26.85) | | | 250 J | |
| METHOXYBENZENE UNK. (16.38) | | | 170 J | |
| BENZENE, 2-(BROMOMETHYL)-1-M (22.82) | | | 130 JN | |
| AMINOPHENYLETHANONE UNK. (20.35) | | | 120 J | |
| BIPHENYL -OL UNK. (20.68) | | | 110 J | |
| UNK. BIPHENYL/ALKYL (27.19) | | | 110 J | |
| NITROBENZENE UNK. (22.52) | | | 96 J | |
| ETHANDIONE, DIPHENYL- (24.42) | | | 68 JN | |
| CHLORINATED AROMATIC UNK. (36 92) | | | 62 J | |
| BROMOBENZOIC ACID UNK. ISO. (19.35) | | | 45 J | |
| AROMATIC UNK. POSS. PHENOL (17.52) | | | 44 J | |
| SULFONATED BENZENE UNK. (28.04) | | | 41 J | |
| METHANONE, DIPHENYL (22.22) | | | 35 JN | |
| AROMATICACID UNK. (16.55) | | | 30 J | |
| MIX ' 'K ALIPHATICS (11.77) | | | 29 J | |
| MIX UNK. AROMATICS (18.87) | | | 24 J | |
| METHOXYCHLOR (38.25) | | | 23 J | |
| CHLOROBIPHENYL UNK. (28.90) | | | 22 J | |
| ETHANONE, 1-PHENYL- (13.53) | | | 21 JN | |
| DICHLOROBIPHENYL-OL UNK. (25.17) | | | 21 J | |
| ALKOXYBENZENE UNK. (18.30) | | | 19 J | |
| BENZENESULFONAMIDE (20.95) | | | | 1700 JN |

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Pesticides/PCBs

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 | RNS-GW-S6DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P054 | P077 | P063 | P061 | P096 | P096DL10 |
| Remarks | | | | | | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | | UJ | UJ | UJ | | |
| beta-BHC | 0.05 | | UJ | UJ | UJ | | |
| delta-BHC | 0.05 | | UJ | UJ | UJ | | |
| gamma-BHC (Lindane) | 0.05 | | UJ | UJ | UJ | | |
| Heptachlor | 0.05 | | UJ | UJ | UJ | | |
| Aldrin | 0.05 | | UJ | UJ | UJ | | |
| Heptachlor Epoxide | 0.05 | | UJ | UJ | UJ | | |
| Endosulfan I | 0.05 | | UJ | UJ | UJ | | |
| Dieldrin | 0.1 | | UJ | UJ | UJ | | |
| 4,4'-DDE | 0.1 | | UJ | UJ | UJ | 0.014 J | |
| Endrin | 0.1 | | UJ | UJ | UJ | | 0.026 J |
| Endosulfan II | 0.1 | | UJ | UJ | UJ | | |
| 4,4'-DDD | 0.1 | | 0.013 J | UJ | UJ | | |
| Endosulfan Sulfate | 0.1 | | UJ | UJ | UJ | 0.036 J | UJ |
| 4,4'-DDT | 0.1 | | UJ | UJ | UJ | 0.010 J | |
| Methoxychlor | 0.5 | | UJ | UJ | UJ | | |
| Endrin Ketone | 0.1 | | UJ | UJ | UJ | | |
| Endrin Aldehyde | 0.1 | | UJ | UJ | UJ | | |
| alpha-Chlordane | 0.05 | | UJ | UJ | UJ | 0.038 J | |
| gamma-Chlordane | 0.05 | | UJ | UJ | UJ | | |
| Toxaphene | 5 | | UJ | UJ | UJ | | |
| Aroclor-1016 | 1 | | UJ | UJ | UJ | | |
| Aroclor-1221 | 2 | | UJ | UJ | UJ | | |
| Aroclor-1232 | 1 | | UJ | UJ | UJ | | |
| Aroclor-1242 | 1 | | UJ | UJ | UJ | | |
| Aroclor-1248 | 1 | | UJ | UJ | UJ | | |
| Aroclor-1254 | 1 | | UJ | UJ | UJ | | |
| Aroclor-1260 | 1 | | UJ | UJ | UJ | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 10 |
| Date of Sample Collection | | 10/27/92 | 11/02/92 | 10/28/92 | 10/27/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 11/03/92 | 10/29/92 | 10/28/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 10/30/92 | 11/05/92 | 10/30/92 | 10/30/92 | 11/09/92 | 11/09/92 |
| Date of Sample Analysis | | 12/05/92 | 12/09/92 | 12/05/92 | 12/05/92 | 12/10/92 | 12/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S7 | RNS-GW-S7-106 | RNS-GW-S8 | RNS-GW-S9 | RNS-GW-S10 | RNS-GW-S11 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P092 | P095 | P088 | P042 | P059 | P058 |
| Remarks | | | Field Blank | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | UJ | | | |
| beta-BHC | 0.05 | | | UJ | | | |
| delta-BHC | 0.05 | | | UJ | | | |
| gamma-BHC (Lindane) | 0.05 | | | UJ | | | |
| Heptachlor | 0.05 | | | UJ | | | |
| Aldrin | 0.05 | | | UJ | | | |
| Heptachlor Epoxide | 0.05 | | | UJ | | | |
| Endosulfan I | 0.05 | 0.05 U | | UJ | | | |
| Dieldrin | 0.1 | | | UJ | | | |
| 4,4'-DDE | 0.1 | | | UJ | | | |
| Endrin | 0.1 | 0.017 J | | UJ | | | |
| Endosulfan II | 0.1 | 0.10 U | | 0.10 U | | | |
| 4,4'-DDD | 0.1 | | | UJ | | | |
| Endosulfan Sulfate | 0.1 | | | UJ | | | |
| 4,4'-DDT | 0.1 | | | 0.023 J | | | |
| Methoxychlor | 0.5 | 0.50 U | 1.4 | 0.50 U | | | |
| Endrin Ketone | 0.1 | | | UJ | | | |
| Endrin Aldehyde | 0.1 | | 0.11 J | UJ | | | |
| alpha-Chlordane | 0.05 | | | UJ | | | |
| gamma-Chlordane | 0.05 | 0.011 J | | UJ | | | |
| Toxaphene | 5 | | | UJ | | | |
| Aroclor-1016 | 1 | | | UJ | | | |
| Aroclor-1221 | 2 | | | UJ | | | |
| Aroclor-1232 | 1 | | | UJ | | | |
| Aroclor-1242 | 1 | | | UJ | | | |
| Aroclor-1248 | 1 | | | UJ | | | |
| Aroclor-1254 | 1 | | | UJ | | | |
| Aroclor-1260 | 1 | | | UJ | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 10/26/92 | 10/27/92 | 10/27/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 10/28/92 | 10/28/92 | 10/28/92 |
| Date Sample Extracted | | 11/05/92 | 11/09/92 | 11/05/92 | 10/30/92 | 10/30/92 | 10/30/92 |
| Date of Sample Analysis | | 12/09/92 | 12/10/92 | 12/09/92 | 12/01/92 | 12/05/92 | 12/05/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S14 | RNS-GW-S15 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P082DL10 | P082DL100 | P076 | P076DL10 | P066 | P081 |
| Remarks | | Dilution | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | UJ | UJ | UJ | UJ | UJ | |
| beta-BHC | 0.05 | UJ | UJ | UJ | UJ | R | |
| delta-BHC | 0.05 | UJ | UJ | UJ | | R | |
| gamma-BHC (Lindane) | 0.05 | 0.13 J | UJ | 0.064 U | 0.05 U | UJ | |
| Heptachlor | 0.05 | UJ | UJ | UJ | UJ | R | |
| Aldrin | 0.05 | UJ | UJ | UJ | | R | |
| Heptachlor Epoxide | 0.05 | UJ | UJ | UJ | | R | |
| Endosulfan I | 0.05 | UJ | UJ | UJ | UJ | R | |
| Dieldrin | 0.1 | UJ | UJ | UJ | UJ | R | |
| 4,4'-DDE | 0.1 | UJ | UJ | UJ | | R | |
| Endrin | 0.1 | 0.21 J | UJ | UJ | | R | |
| Endosulfan II | 0.1 | 0.83 J | UJ | UJ | | R | |
| 4,4'-DDD | 0.1 | UJ | UJ | 0.047 J | | R | |
| Endosulfan Sulfate | 0.1 | UJ | UJ | UJ | UJ | UJ | |
| 4,4'-DDT | 0.1 | UJ | UJ | UJ | | R | |
| Methoxychlor | 0.5 | UJ | UJ | UJ | | UJ | |
| Endrin Ketone | 0.1 | UJ | UJ | UJ | | UJ | |
| Endrin Aldehyde | 0.1 | 1.2 | 0.82 J | UJ | | UJ | |
| alpha-Chlordane | 0.05 | UJ | UJ | UJ | | R | |
| gamma-Chlordane | 0.05 | UJ | UJ | UJ | | R | |
| Toxaphene | 5 | UJ | UJ | UJ | | R | |
| Aroclor-1016 | 1 | UJ | UJ | UJ | | R | |
| Aroclor-1221 | 2 | UJ | UJ | UJ | | R | |
| Aroclor-1232 | 1 | UJ | UJ | UJ | | R | |
| Aroclor-1242 | 1 | UJ | UJ | UJ | | R | |
| Aroclor-1248 | 1 | UJ | UJ | UJ | | R | |
| Aroclor-1254 | 1 | UJ | UJ | UJ | | R | |
| Aroclor-1260 | 1 | UJ | UJ | UJ | | R | |
| Quantitation Limit Multiplier | | 10 | 100 | 1 | 10 | 1 | 1 |
| Date of Sample Collection | | 11/02/92 | 11/02/92 | 11/02/92 | 11/02/92 | 10/28/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 10/29/92 | 11/03/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/03/92 | 11/05/92 |
| Date of Sample Analysis | | 12/16/92 | 12/16/92 | 12/09/92 | 12/16/92 | 12/05/92 | 12/09/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S16 | RNS-GW-S16-105 | RNS-GW-S17 | RNS-GW-S20 | RNS-GW-S18 | RNS-GW-S18DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P071 | P072 | P073 | P075 | P104DL100 | P104DL1000 |
| Remarks | | | Field Blank | | Dupilcate of RNS-GW-S17 | Dilution | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | UJ | | | | | |
| beta-BHC | 0.05 | UJ | | | | | |
| delta-BHC | 0.05 | UJ | | | | | |
| gamma-BHC (Lindane) | 0.05 | UJ | | | | | |
| Heptachlor | 0.05 | UJ | | | | | |
| Aldrin | 0.05 | UJ | | | | | |
| Heptachlor Epoxide | 0.05 | UJ | | | | | |
| Endosulfan I | 0.05 | UJ | | | | | |
| Dieldrin | 0.1 | UJ | | | | | |
| 4,4'-DDE | 0.1 | UJ | | | | | |
| Endrin | 0.1 | UJ | | | | | |
| Endosulfan II | 0.1 | UJ | | | | | |
| 4,4'-DDD | 0.1 | UJ | | | | | 53 J |
| Endosulfan Sulfate | 0.1 | UJ | | | | | |
| 4,4'-DDT | 0.1 | UJ | | | | 0.97 J | |
| Methoxychlor | 0.5 | UJ | | | | 1.0 J | |
| Endrin Ketone | 0.1 | UJ | | | | | |
| Endrin Aldehyde | 0.1 | UJ | | | | 2.7 J | |
| alpha-Chlordane | 0.05 | UJ | | | | | |
| gamma-Chlordane | 0.05 | UJ | | | | 0.28 J | |
| Toxaphene | 5 | UJ | | | | | |
| Aroclor-1016 | 1 | UJ | | | | | |
| Aroclor-1221 | 2 | UJ | | | | | |
| Aroclor-1232 | 1 | UJ | | | | | |
| Aroclor-1242 | 1 | UJ | | | | | |
| Aroclor-1248 | 1 | UJ | | | | | |
| Aroclor-1254 | 1 | UJ | | | | | |
| Aroclor-1260 | 1 | UJ | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 100 | 1000 |
| Date of Sample Collection | | 10/28/92 | 10/28/92 | 11/02/92 | 11/02/92 | 11/04/92 | 11/04/92 |
| Date Sample Received by Laboratory | | 10/29/92 | 10/29/92 | 11/03/92 | 11/03/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 11/03/92 | 11/03/92 | 11/05/92 | 11/05/92 | 11/09/92 | 11/09/92 |
| Date of Sample Analysis | | 12/06/92 | 12/06/92 | 12/06/92 | 12/06/92 | 12/16/92 | 12/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S22 | RNS-GW-S22DL | RNS-GW-D1 | RNS-GW-D1-104 | RNS-GW-D2 | RNS-GW-D3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P105DL100 | P105DL1000 | P040 | P041 | P089 | P062 |
| Remarks | | Dilution | Dilution | | Field Blank | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | | | | | | UJ |
| beta-BHC | 0.05 | | | | | | UJ |
| delta-BHC | 0.05 | | | | | | UJ |
| gamma-BHC (Lindane) | 0.05 | | | | | | UJ |
| Heptachlor | 0.05 | | | | | | UJ |
| Aldrin | 0.05 | | | | | | UJ |
| Heptachlor Epoxide | 0.05 | | | | | | UJ |
| Endosulfan I | 0.05 | | | | | | UJ |
| Dieldrin | 0.1 | | | | | | UJ |
| 4,4'-DDE | 0.1 | | | | | | UJ |
| Endrin | 0.1 | 4.4 J | | | | | UJ |
| Endosulfan II | 0.1 | 1.3 J | | | | | UJ |
| 4,4'-DDD | 0.1 | | | | | | UJ |
| Endosulfan Sulfate | 0.1 | | | | | | UJ |
| 4,4'-DDT | 0.1 | 2.2 J | 1.7 J | | | | UJ |
| Methoxychlor | 0.5 | 4.3 J | 1.4 J | | | | UJ |
| Endrin Ketone | 0.1 | | | | | | UJ |
| Endrin Aldehyde | 0.1 | 6.6 J | | | | | UJ |
| alpha-Chlordane | 0.05 | | | | | | UJ |
| gamma-Chlordane | 0.05 | 0.36 J | | | | | UJ |
| Toxaphene | 5 | | | | | | UJ |
| Aroclor 1016 | 1 | | | | | | UJ |
| Aroclor-1221 | 2 | | | | | | UJ |
| Aroclor-1232 | 1 | | | | | | UJ |
| Aroclor-1242 | 1 | | | | | | UJ |
| Aroclor-1248 | 1 | | | | | | UJ |
| Aroclor-1254 | 1 | | | | | | UJ |
| Aroclor-1260 | 1 | | | | | | UJ |
| Quantitation Limit Multiplier | | 100 | 1000 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 10/26/92 | 10/26/92 | 11/03/92 | 10/28/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 11/05/92 | 10/27/92 | 10/27/92 | 11/04/92 | 10/29/92 |
| Date Sample Extracted | | 11/09/92 | 11/09/92 | 10/27/92 | 10/27/92 | 11/05/92 | 10/30/92 |
| Date of Sample Analysis | | 12/16/92 | 12/16/92 | 12/01/92 | 12/01/92 | 12/09/92 | 12/05/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D18 | RNS-GW-D4 | RNS-GW-D5 | RNS-GW-D6 | RNS-GW-D7 | RNS-GW-D8 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P064 | P060 | P056 | P097 | P067 | P074 |
| Remarks | | Duplicate of RNS-GW-D3 | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | | | UJ |
| beta-BHC | 0.05 | | | | | | UJ |
| delta-BHC | 0.05 | | | | | | UJ |
| gamma-BHC (Lindane) | 0.05 | | | | | | UJ |
| Heptachlor | 0.05 | | | | | | UJ |
| Aldrin | 0.05 | | | | | | UJ |
| Heptachlor Epoxide | 0.05 | | | | | | UJ |
| Endosulfan I | 0.05 | | | | 0.05 U | | UJ |
| Dieldrin | 0.1 | | | | | | UJ |
| 4,4'-DDE | 0.1 | | | | | | UJ |
| Endrin | 0.1 | | | | | | UJ |
| Endosulfan II | 0.1 | | | | | | UJ |
| 4,4'-DDD | 0.1 | | | | 0.0040 J | | UJ |
| Endosulfan Sulfate | 0.1 | | | | | | UJ |
| 4,4'-DDT | 0.1 | | | | 0.011 J | | UJ |
| Methoxychlor | 0.5 | | | | | | UJ |
| Endrin Ketone | 0.1 | | | | | | UJ |
| Endrin Aldehyde | 0.1 | | | | | | UJ |
| alpha-Chlordane | 0.05 | | | | | | UJ |
| gamma-Chlordane | 0.05 | | | | | | UJ |
| Toxaphene | 5 | | | | | | UJ |
| Aroclor-1016 | 1 | | | | | | UJ |
| Aroclor-1221 | 2 | | | | | | UJ |
| Aroclor-1232 | 1 | | | | | | UJ |
| Aroclor-1242 | 1 | | | | | | UJ |
| Aroclor-1248 | 1 | | | | | | UJ |
| Aroclor-1254 | 1 | | | | | | UJ |
| Aroclor-1260 | 1 | | | | | | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/28/92 | 10/27/92 | 10/27/92 | 11/03/92 | 10/28/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 10/29/92 | 10/28/92 | 10/28/92 | 11/05/92 | 10/29/92 | 11/03/92 |
| Date Sample Extracted | | 11/03/92 | 10/30/92 | 10/30/92 | 11/09/92 | 11/0[illegible]/92 | 11/05/92 |
| Date of Sample Analysis | | 12/05/92 | 12/05/92 | 12/05/92 | 12/10/92 | 12/0[illegible]/92 | 12/06/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D9 | RNS-GW-D10 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D12 | RNS-GW-D12DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P070 | P034 | P093 | P093DL10 | P090DL10 | P090DL100 |
| Remarks | | | | | Dilution | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | | |
| Heptachlor | 0.05 | | | | | UJ | UJ |
| Aldrin | 0.05 | | | | | | |
| Heptachlor Epoxide | 0.05 | | | | UJ | UJ | UJ |
| Endosulfan I | 0.05 | | | | 0.11 R | 2.1 J | 1.9 J |
| Dieldrin | 0.1 | | | | UJ | UJ | UJ |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | | 7.3 J | 0.80 J |
| Endosulfan II | 0.1 | | | 0.10 U | UJ | 2.2 J | 1.9 J |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | 1.1 J | 0.83 J |
| Methoxychlor | 0.5 | | | | | 130 J | 280 J |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | 0.10 U | 1.0 U | 14 J | 12 J |
| alpha-Chlordane | 0.05 | | | 0.023 J | UJ | 0.28 J | UJ |
| gamma-Chlordane | 0.05 | | | 0.0036 J | | 0.44 J | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 10 | 10 | 100 |
| Date of Sample Collection | | 10/28/92 | 10/22/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/29/92 | 10/23/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Extracted | | 11/03/92 | 10/27/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 12/06/92 | 12/01/92 | 12/09/92 | 12/16/92 | 12/16/92 | 12/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S21 | RNS-GW-S21DL | RNS-GW-D13 | RNS-GW-D14 | RNS-GW-D19 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P091DL10 | P091DL100 | P094 | P078 | P079 |
| Remarks | | Duplicate of RNS-GW-D12 | Duplicate of RNS-GW-D12 | | | Duplicate of RNS-GW-D14 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | Dilution | | | |
| alpha-BHC | 0.05 | UJ | | | | |
| beta-BHC | 0.05 | UJ | | | | |
| delta-BHC | 0.05 | UJ | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | |
| Heptachlor | 0.05 | | UJ | | | |
| Aldrin | 0.05 | UJ | | | | |
| Heptachlor Epoxide | 0.05 | | UJ | | | |
| Endosulfan I | 0.05 | 1.5 J | 1.4 J | | | |
| Dieldrin | 0.1 | | UJ | | | |
| 4,4'-DDE | 0.1 | | | | | |
| Endrin | 0.1 | | UJ | | | |
| Endosulfan II | 0.1 | 0.62 J | 0.18 J | | | |
| 4,4'-DDD | 0.1 | UJ | | | | |
| Endosulfan Sulfate | 0.1 | | | | | |
| 4,4'-DDT | 0.1 | UJ | | 0.0028 J | | |
| Methoxychlor | 0.5 | 58 J | 58 J | UJ | | |
| Endrin Ketone | 0.1 | | | UJ | | |
| Endrin Aldehyde | 0.1 | 3.2 J | 2.3 J | | | |
| alpha-Chlordane | 0.05 | | | | | |
| gamma-Chlordane | 0.05 | UJ | | | | |
| Toxaphene | 5 | | | | | |
| Aroclor-1016 | 1 | | | | | |
| Aroclor-1221 | 2 | | | | | |
| Aroclor-1232 | 1 | | | | | |
| Aroclor-1242 | 1 | | | | | |
| Aroclor-1248 | 1 | | | | | |
| Aroclor-1254 | 1 | | | | | |
| Aroclor-1260 | 1 | | | | | |
| Quantitation Limit Multiplier | | 10 | 100 | 1 | 1 | 1 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/02/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 11/03/92 | 11/03/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 11/09/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 12/16/92 | 12/16/92 | 12/09/92 | 12/09/92 | 12/09/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D15 | RNS-GW-D16 | RNS-GW-D17 | RNS-GW-T1 | RNS-GW-T2 | RNS-GW-T2DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P086 | P013 | P083 | P098 | P099DL10 | P099DL100 |
| Remarks | | | | | | Dilution | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES/AROCLORS | Quantitation Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | UJ | | UJ | UJ | | |
| beta-BHC | 0.05 | UJ | | UJ | UJ | | |
| delta-BHC | 0.05 | UJ | | UJ | UJ | | |
| gamma-BHC (Lindane) | 0.05 | UJ | | UJ | UJ | | |
| Heptachlor | 0.05 | UJ | | UJ | UJ | | |
| Aldrin | 0.05 | 0.0078 J | | UJ | UJ | | |
| Heptachlor Epoxide | 0.05 | UJ | | UJ | UJ | | |
| Endosulfan I | 0.05 | UJ | | UJ | UJ | 0.59 J | 0.65 J |
| Dieldrin | 0.1 | UJ | | UJ | UJ | | |
| 4,4'-DDE | 0.1 | UJ | | UJ | UJ | | |
| Endrin | 0.1 | UJ | | UJ | UJ | | |
| Endosulfan II | 0.1 | UJ | | UJ | UJ | 0.17 J | |
| 4,4'-DDD | 0.1 | 0.0077 J | | UJ | 0.012 J | | |
| Endosulfan Sulfate | 0.1 | UJ | | UJ | UJ | | |
| 4,4'-DDT | 0.1 | 0.0046 J | | UJ | 0.0077 J | | |
| Methoxychlor | 0.5 | UJ | | 0.50 U | UJ | 24 | 18 |
| Endrin Ketone | 0.1 | UJ | | UJ | UJ | | |
| Endrin Aldehyde | 0.1 | UJ | | UJ | UJ | 0.98 J | 0.69 J |
| alpha-Chlordane | 0.05 | 0.0068 J | | UJ | UJ | | |
| gamma-Chlordane | 0.05 | UJ | | UJ | UJ | | |
| Toxaphene | 5 | UJ | | UJ | UJ | | |
| Aroclor-1016 | 1 | UJ | | UJ | UJ | | |
| Aroclor-1221 | 2 | UJ | | UJ | UJ | | |
| Aroclor-1232 | 1 | UJ | | UJ | UJ | | |
| Aroclor-1242 | 1 | UJ | | UJ | UJ | | |
| Aroclor-1248 | 1 | UJ | | UJ | UJ | | |
| Aroclor-1254 | 1 | UJ | | UJ | UJ | | |
| Aroclor-1260 | 1 | UJ | | UJ | UJ | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 10 | 100 |
| Date of Sample Collection | | 11/03/92 | 10/21/92 | 11/03/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 10/22/92 | 11/04/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 11/05/92 | 10/22/92 | 11/05/92 | 11/09/92 | 11/09/92 | 11/09/92 |
| Date of Sample Analysis | | 12/09/92 | 11/16/92 | 12/09/92 | 12/10/92 | 12/16/92 | 12/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-RW1 | RNS-GW-RW1-107 | RNS-GW-RW1-107DL | RNS-GW-RW1 | RNS-GW-AS | RNS-GW-AUB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P106DL10 | P108DL10 | P108DL100 | P106DL100 | P037 | P036 |
| Remarks | | Dilution | Dilution | Dilution | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | Field | | | | |
| alpha-BHC | 0.05 | | | | | R | |
| beta-BHC | 0.05 | | | | | R | |
| delta-BHC | 0.05 | | | | | R | |
| gamma-BHC (Lindane) | 0.05 | | | | | R | |
| Heptachlor | 0.05 | | | | | R | |
| Aldrin | 0.05 | | | | | R | |
| Heptachlor Epoxide | 0.05 | | | | | R | |
| Endosulfan I | 0.05 | 0.55 J | | | 0.62 J | R | |
| Dieldrin | 0.1 | | | | | R | |
| 4,4'-DDE | 0.1 | | | | | R | |
| Endrin | 0.1 | | | | | R | |
| Endosulfan II | 0.1 | | | | | R | |
| 4,4'-DDD | 0.1 | | | | | R | |
| Endosulfan Sulfate | 0.1 | | | | | R | |
| 4,4'-DDT | 0.1 | | | | | R | |
| Methoxychlor | 0.5 | 7.7 | 0.15 J | | 5.3 J | R | |
| Endrin Ketone | 0.1 | | | | | R | |
| Endrin Aldehyde | 0.1 | 0.97 J | | | 0.63 J | R | |
| alpha-Chlordane | 0.05 | | | | | R | |
| gamma-Chlordane | 0.05 | | | | | R | |
| Toxaphene | 5 | | | | | R | |
| Aroclor-1016 | 1 | | | | | R | |
| Aroclor-1221 | 2 | | | | | R | |
| Aroclor-1232 | 1 | | | | | R | |
| Aroclor-1242 | 1 | | | | | R | |
| Aroclor-1248 | 1 | | | | | R | |
| Aroclor-1254 | 1 | | | | | R | |
| Aroclor-1260 | 1 | | | | | R | |
| Quantitation Limit Multiplier | | 10 | 10 | 100 | 100 | 1 | 1 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 11/09/92 | 11/09/92 | 11/09/92 | 11/09/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 12/16/92 | 12/17/92 | 12/16/92 | 12/16/92 | 12/01/92 | 12/01/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-AVF1 | RNS-GW-BS | RNS-GW-CS | RNS-GW-CUB | RNS-GW-CLB | RNS-GW-DVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P038 | P039 | P005 | P008 | P021 | P020 |
| Remarks | | Duplicate of RNS-GW-AUB | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | | UJ | | | | UJ |
| beta-BHC | 0.05 | | UJ | | | | UJ |
| delta-BHC | 0.05 | | UJ | | | | UJ |
| gamma-BHC (Lindane) | 0.05 | | UJ | | | | UJ |
| Heptachlor | 0.05 | | UJ | | | | UJ |
| Aldrin | 0.05 | | UJ | | | | UJ |
| Heptachlor Epoxide | 0.05 | | UJ | | | | UJ |
| Endosulfan I | 0.05 | | UJ | | | | UJ |
| Dieldrin | 0.1 | | UJ | | | | UJ |
| 4,4'-DDE | 0.1 | | UJ | | | | UJ |
| Endrin | 0.1 | | UJ | | | | UJ |
| Endosulfan II | 0.1 | | UJ | | | | UJ |
| 4,4'-DDD | 0.1 | | UJ | | | | UJ |
| Endosulfan Sulfate | 0.1 | | UJ | | | | UJ |
| 4,4'-DDT | 0.1 | | UJ | | | | UJ |
| Methoxychlor | 0.5 | | UJ | | | | UJ |
| Endrin Ketone | 0.1 | | UJ | | | | UJ |
| Endrin Aldehyde | 0.1 | | UJ | | | | UJ |
| alpha-Chlordane | 0.05 | | UJ | | | | UJ |
| gamma-Chlordane | 0.05 | | UJ | | | | UJ |
| Toxaphene | 5 | | UJ | | | | UJ |
| Aroclor-1016 | 1 | | UJ | | | | UJ |
| Aroclor-1221 | 2 | | UJ | | | | UJ |
| Aroclor-1232 | 1 | | UJ | | | | UJ |
| Aroclor-1242 | 1 | | UJ | | | | UJ |
| Aroclor-1248 | 1 | | UJ | | | | UJ |
| Aroclor-1254 | 1 | | UJ | | | | UJ |
| Aroclor-1260 | 1 | | UJ | | | | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/26/92 | 10/26/92 | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 |
| Date Sample Received by Laboratory | | 10/27/92 | 10/27/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/22/92 |
| Date Sample Extracted | | 10/27/92 | 10/27/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date of Sample Analysis | | 12/01/92 | 12/01/92 | 11/15/92 | 11/15/92 | 11/16/92 | 11/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-DVF3 | RNS-GW-DLB | RNS-GW-EVF1 | RNS-GW-EVF2 | RNS-GW-EVF3 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P019 | P018 | P010 | P011 | P012 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | *Quantitation* | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | |
| alpha-BHC | 0.05 | | | | | |
| beta-BHC | 0.05 | | | | | |
| delta-BHC | 0.05 | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | |
| Heptachlor | 0.05 | | | | | |
| Aldrin | 0.05 | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | |
| Endosulfan I | 0.05 | | | | | |
| Dieldrin | 0.1 | | | | | |
| 4,4'-DDE | 0.1 | | | | | |
| Endrin | 0.1 | | | | | |
| Endosulfan II | 0.1 | | | | | |
| 4,4'-DDD | 0.1 | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | |
| 4,4'-DDT | 0.1 | | | | | |
| Methoxychlor | 0.5 | | | | | |
| Endrin Ketone | 0.1 | | | | | |
| Endrin Aldehyde | 0.1 | | | | | |
| alpha-Chlordane | 0.05 | | | | | |
| gamma-Chlordane | 0.05 | | | | | |
| Toxaphene | 5 | | | | | |
| Aroclor-1016 | 1 | | | | | |
| Aroclor-1221 | 2 | | | | | |
| Aroclor-1232 | 1 | | | | | |
| Aroclor-1242 | 1 | | | | | |
| Aroclor-1248 | 1 | | | | | |
| Aroclor-1254 | 1 | | | | | |
| Aroclor-1260 | 1 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Laboratory | | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Extracted | | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date of Sample Analysis | | 11/16/92 | 11/16/92 | 11/15/92 | 11/15/92 | 11/15/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW-ELB | RNS-GW-FVF3 | RNS-GW-FVF4 |
| Laboratory Sample Number | | P014 | P022 | P025 | P027 | P026 |
| Remarks | | Duplicate of RNS-GW-EVF3 | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | |
| alpha-BHC | 0.05 | | | | | |
| beta-BHC | 0.05 | | | | | |
| delta-BHC | 0.05 | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | |
| Heptachlor | 0.05 | | | | | |
| Aldrin | 0.05 | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | |
| Endosulfan I | 0.05 | | | | | |
| Dieldrin | 0.1 | | | | | |
| 4,4'-DDE | 0.1 | | | | | |
| Endrin | 0.1 | | | | | |
| Endosulfan II | 0.1 | | | | | |
| 4,4'-DDD | 0.1 | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | |
| 4,4'-DDT | 0.1 | | | | | |
| Methoxychlor | 0.5 | | | | | |
| Endrin Ketone | 0.1 | | | | | |
| Endrin Aldehyde | 0.1 | | | | | |
| alpha-Chlordane | 0.05 | | | | | |
| gamma-Chlordane | 0.05 | | | | | |
| Toxaphene | 5 | | | | | |
| Aroclor-1016 | 1 | | | | | |
| Aroclor-1221 | 2 | | | | | |
| Aroclor-1232 | 1 | | | | | |
| Aroclor-1242 | 1 | | | | | |
| Aroclor-1248 | 1 | | | | | |
| Aroclor-1254 | 1 | | | | | |
| Aroclor-1260 | 1 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/22/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date Sample Extracted | | 10/22/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 11/16/92 | 11/16/92 | 11/30/92 | 12/01/92 | 11/30/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-FVF4-103 | RNS-GW-FVF6 | RNS-GW-FLB | RNS-GW-GUB | RNS-GW-HS | RNS-GW-HVF1 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P028 | P032 | P033 | P101 | P030 | P031 |
| Remarks | | Field Blank | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | | | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | | |
| Heptachlor | 0.05 | | | | | | |
| Aldrin | 0.05 | | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | 0.054 J | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | | | | 0.056 J | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | 0.017 J | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/22/92 | 10/22/92 | 10/22/92 | 11/04/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/23/92 | 10/23/92 | 10/23/92 | 11/05/92 | 10/23/92 | 10/23/92 |
| Date Sample Extracted | | 10/27/92 | 10/27/92 | 10/27/92 | 11/09/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 11/16/92 | 12/01/92 | 12/01/92 | 12/10/92 | 12/01/92 | 12/01/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-HUB | RNS-GW-IS | RNS-GW-II | RNS-IUB | RNS-GW-ILB | RNS-GW-JVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P029 | P001 | P002 | P003 | P009 | P051 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Ag) | | | | | | |
| alpha-BHC | 0.05 | | | | | | UJ |
| beta-BHC | 0.05 | | | | | | UJ |
| delta-BHC | 0.05 | | | | | | UJ |
| gamma-BHC (Lindane) | 0.05 | | | | | | UJ |
| Heptachlor | 0.05 | | | | | | UJ |
| Aldrin | 0.05 | | | | | | UJ |
| Heptachlor Epoxide | 0.05 | | | | | | UJ |
| Endosulfan I | 0.05 | | | | | | UJ |
| Dieldrin | 0.1 | | | | | | UJ |
| 4,4'-DDE | 0.1 | | | 0.064 J | 0.089 J | | UJ |
| Endrin | 0.1 | | | | | | UJ |
| Endosulfan II | 0.1 | | | | | | UJ |
| 4,4'-DDD | 0.1 | | | | | | UJ |
| Endosulfan Sulfate | 0.1 | | | | | | UJ |
| 4,4'-DDT | 0.1 | | | | | | UJ |
| Methoxychlor | 0.5 | | | | | | UJ |
| Endrin Ketone | 0.1 | | | | | | UJ |
| Endrin Aldehyde | 0.1 | | | | | | UJ |
| alpha-Chlordane | 0.05 | | | | | | UJ |
| gamma-Chlordane | 0.05 | | | | | | UJ |
| Toxaphene | 5 | | | | | | UJ |
| Aroclor-1016 | 1 | | | | | | UJ |
| Aroclor-1221 | 2 | | | | | | UJ |
| Aroclor-1232 | 1 | | | | | | UJ |
| Aroclor-1242 | 1 | | | | | | UJ |
| Aroclor-1248 | 1 | | | | | | UJ |
| Aroclor-1254 | 1 | | | | | | UJ |
| Aroclor-1260 | 1 | | | | | | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/22/92 | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 | 10/27/92 |
| Date Sample Received by Laboratory | | 10/23/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/22/92 | 10/28/92 |
| Date Sample Extracted | | 10/27/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/30/92 |
| Date of Sample Analysis | | 12/01/92 | 11/15/92 | 11/15/92 | 11/15/92 | 11/15/92 | 12/05/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 | RNS-GW-KVF4 | RNS-GW-KLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P052 | P053 | P048 | P016 | P017 | P007 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | UJ | UJ | | | | |
| beta-BHC | 0.05 | UJ | UJ | | | | |
| delta-BHC | 0.05 | UJ | UJ | | | | |
| gamma-BHC (Lindane) | 0.05 | UJ | UJ | | | | |
| Heptachlor | 0.05 | UJ | UJ | | | | |
| Aldrin | 0.05 | UJ | UJ | | | | |
| Heptachlor Epoxide | 0.05 | UJ | UJ | | | | |
| Endosulfan I | 0.05 | UJ | UJ | | | | |
| Dieldrin | 0.1 | UJ | UJ | | | | |
| 4,4'-DDE | 0.1 | UJ | UJ | | | | |
| Endrin | 0.1 | UJ | UJ | | | | |
| Endosulfan II | 0.1 | UJ | UJ | | | | |
| 4,4'-DDD | 0.1 | UJ | UJ | | | | |
| Endosulfan Sulfate | 0.1 | UJ | UJ | | | | |
| 4,4'-DDT | 0.1 | UJ | UJ | | | | |
| Methoxychlor | 0.5 | UJ | UJ | | | | |
| Endrin Ketone | 0.1 | UJ | UJ | | | | |
| Endrin Aldehyde | 0.1 | UJ | UJ | | | | |
| alpha-Chlordane | 0.05 | UJ | UJ | | | | |
| gamma-Chlordane | 0.05 | UJ | UJ | | | | |
| Toxaphene | 5 | UJ | UJ | | | | |
| Aroclor-1016 | 1 | UJ | UJ | | | | |
| Aroclor-1221 | 2 | UJ | UJ | | | | |
| Aroclor-1232 | 1 | UJ | UJ | | | | |
| Aroclor-1242 | 1 | UJ | UJ | | | | |
| Aroclor-1248 | 1 | UJ | UJ | | | | |
| Aroclor-1254 | 1 | UJ | UJ | | | | |
| Aroclor-1260 | 1 | UJ | UJ | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 10/27/92 | 10/21/92 | 10/21/92 | 10/20/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 10/28/92 | 10/28/92 | 10/22/92 | 10/22/92 | 10/21/92 |
| Date Sample Extracted | | 10/30/92 | 10/30/92 | 10/30/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date of Sample Analysis | | 12/05/92 | 12/05/92 | 12/01/92 | 11/16/92 | 11/16/92 | 11/16/92 |

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EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GW-LLB |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P008 | P044 | P043 | P046 | P045 |
| Remarks | | Duplicate of RNS-GW-KLB | | | Duplicate of RNS-GW-LVF2 | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Quantitation | | | | | |
| PESTICIDES/AROCLORS | Limit (Aq) | | | | | |
| alpha-BHC | 0.05 | | UJ | UJ | | |
| beta-BHC | 0.05 | | UJ | UJ | | |
| delta-BHC | 0.05 | | UJ | UJ | | |
| gamma-BHC (Lindane) | 0.05 | | UJ | UJ | | |
| Heptachlor | 0.05 | | UJ | UJ | | |
| Aldrin | 0.05 | | UJ | UJ | | |
| Heptachlor Epoxide | 0.05 | | UJ | UJ | | |
| Endosulfan I | 0.05 | | UJ | UJ | | |
| Dieldrin | 0.1 | | UJ | UJ | | |
| 4,4'-DDE | 0.1 | | UJ | UJ | | |
| Endrin | 0.1 | | UJ | UJ | | |
| Endosulfan II | 0.1 | | UJ | UJ | | |
| 4,4'-DDD | 0.1 | | UJ | UJ | | |
| Endosulfan Sulfate | 0.1 | | UJ | UJ | | |
| 4,4'-DDT | 0.1 | | UJ | UJ | | |
| Methoxychlor | 0.5 | | UJ | UJ | | |
| Endrin Ketone | 0.1 | | UJ | UJ | | |
| Endrin Aldehyde | 0.1 | | UJ | UJ | | |
| alpha-Chlordane | 0.05 | | UJ | UJ | | |
| gamma-Chlordane | 0.05 | | UJ | UJ | | |
| Toxaphene | 5 | | UJ | UJ | | |
| Aroclor-1016 | 1 | | UJ | UJ | | |
| Aroclor-1221 | 2 | | UJ | UJ | | |
| Aroclor-1232 | 1 | | UJ | UJ | | |
| Aroclor-1242 | 1 | | UJ | UJ | | |
| Aroclor-1248 | 1 | | UJ | UJ | | |
| Aroclor-1254 | 1 | | UJ | UJ | | |
| Aroclor-1260 | 1 | | UJ | UJ | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 10/20/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 10/22/92 | 10/30/92 | 10/30/92 | 10/30/92 | 10/30/92 |
| Date of Sample Analysis | | 11/15/92 | 12/01/92 | 12/01/92 | 12/01/92 | 12/01/92 |

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# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Mirex, Photomirex and Kepone

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 |
| Laboratory Sample Number | | M054 | M077 | M063 | M061 | M096 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | | | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 50.0 | 1.0 | 1.0 | 5.0 |
| Date of Sample Collection | | 10/27/92 | 11/02/92 | 10/28/92 | 10/27/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 11/03/92 | 10/29/92 | 10/28/92 | 11/04/92 |
| Date Sample Extracted | | 10/29/92 | 11/05/92 | 11/02/92 | 11/02/92 | 11/09/92 |
| Date of Sample Analysis | | 11/17/92 | 12/15/92 | 11/18/92 | 11/18/92 | 12/17/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-S7 | RNS-GW-S7-106 | RNS-GW-S8 | RNS-GW-S8DL | RNS-GW-S9 |
| Laboratory Sample Number | | M092 | M095 | M088 | M088D | M042 |
| Remarks | | | Field Blank | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | UJ | | 0.018 J | | |
| Mirex | 0.00544 | | 0.0180 | 1.19 J | 1.6200 | 0.0061 |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 10.0 | 1.0 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 10/28/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 10/29/92 |
| Date of Sample Analysis | | 12/15/92 | 12/17/92 | 12/15/92 | 12/17/92 | 11/13/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-S10 | RNS-GW-S11 | RNS-GW-S12 | RNS-GW-S13 | RNS-GW-S14 |
| Laboratory Sample Number | | M059 | M058 | M082 | M076 | M066 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | 0.0330 | | | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 125.0 | 50.0 | 1.0 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 11/02/92 | 11/02/92 | 10/28/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 10/28/92 | 11/03/92 | 11/03/92 | 10/29/92 |
| Date Sample Extracted | | 11/02/92 | 11/02/92 | 11/05/92 | 11/05/92 | 11/02/92 |
| Date of Sample Analysis | | 11/17/92 | 11/17/92 | 12/15/92 | 12/15/92 | 11/18/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-S15 | RNS-GW-S16 | RNS-GW-S16-105 | RNS-GW-S17 | RNS-GW-S20 |
| Laboratory Sample Number | | M081 | M071 | M072 | M073 (3) | M075 |
| Remarks | | | | Field Blank | | Dup GW-S17 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | | | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 11/02/92 | 10/28/92 | 10/28/92 | 11/02/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/03/92 | 10/29/92 | 10/29/92 | 11/03/92 | 11/03/92 |
| Date Sample Extracted | | 11/05/92 | 11/02/92 | 11/02/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 12/15/92 | 11/18/92 | 11/18/92 | 11/18/92 | 11/18/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-S18 | RNS-GW-S18DL | RNS-GW-S22 | RNS-GW-S22DL | RNS-GW-S19 |
| Laboratory Sample Number | | M104 | M104DL | M105 | M105DL | M100 |
| Remarks | | | Dilution | Dup GW-S18 | Dup GW-S18 | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | Dilution | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | 5.64 J | | R | | R |
| Photomirex | 0.0474 | 0.417 JN | 0.075 N | 0.230 JN | 0.023 N | UJ |
| Mirex | 0.00544 | 7.23 J | 1.62 J | 4.63 J | 0.535 J | 0.0377 U |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 10.0 | 1.0 | 10.0 | 5.0 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 11/10/92 | 11/10/92 | 11/10/92 | 11/10/92 | 11/12/92 |
| Date of Sample Analysis | | 12/20/92 | 12/28/92 | 12/20/92 | 12/28/92 | 12/22/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-D1 | RNS-GW-D1-104 | RNS-GW-D2 | RNS-GW-D3 | RNS-GW-D18 |
| Laboratory Sample Number | | M040 | M041 | M089 | M062 (3) | M064 (3) |
| Remarks | | | Field Blank | | | Dup GW-D3 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | 0.0424 | | 0.045 U | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/26/92 | 10/26/92 | 11/03/92 | 10/28/92 | 10/28/92 |
| Date Sample Received by Laboratory | | 10/27/92 | 10/27/92 | 11/04/92 | 10/29/92 | 10/29/92 |
| Date Sample Extracted | | 10/29/92 | 10/29/92 | 11/05/92 | 11/02/92 | 11/02/92 |
| Date of Sample Analysis | | 11/13/92 | 11/13/92 | 12/15/92 | 11/18/92 | 11/18/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-D4 | RNS-GW-D5 | RNS-GW-D6 | RNS-GW-D7 | RNS-GW-D8 |
| Laboratory Sample Number | | M060 | M056 | M097 | M067 | M074 (4) |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | 0.005 J | |
| Mirex | 0.00544 | | 0.0120 | | 0.018 J | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 5.0 | 1.0 | 5.0 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 11/03/92 | 10/28/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 10/28/92 | 11/05/92 | 10/29/92 | 11/03/92 |
| Date Sample Extracted | | 11/02/92 | 10/29/92 | 11/05/92 | 11/02/92 | 11/05/92 |
| Date of Sample Analysis | | 11/17/92 | 11/17/92 | 12/17/92 | 11/19/91 | 11/18/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-D9 | RNS-GW-D10 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D12DL |
| Laboratory Sample Number | | M070 | M034 | M093 | MC33D | M090D1 |
| Remarks | | | | | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Ag) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | 0.0870 | | |
| Mirex | 0.00544 | 0.0060 | | 0.83 J | 0.75 J | 239.6 J |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 2.0 | 200.0 |
| Date of Sample Collection | | 10/28/92 | 10/22/92 | 11/03/92 | 11/03/92 | 11/03/92 |
| Date Sample Received by Laboratory | | 10/29/92 | 10/23/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Extracted | | 11/02/92 | 10/27/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 11/18/92 | 11/12/92 | 12/15/92 | 12/17/92 | 12/17/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-D12DL | RNS-GW-S21 | RNS-GW-S21DL | RNS-GW-D13 | RNS-GW-D14 |
| Laboratory Sample Number | | M090D2 | M091 | M091D | M094 | M078 |
| Remarks | | Dilution | Dup GW-D12 | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | |
| Kepone | 0.132 | | 0.067 J | | | |
| Photomirex | 0.0474 | | 0.049 J | | | |
| Mirex | 0.00544 | 172.1 J | 8.22 J | 59.59 J | 0.034 U | |
| | | | | | | |
| Reporting Limit Multiplier | | 1000.0 | 1.0 | 200.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 11/03/92 | 11/03/92 | 11/03/92 | 11/03/92 | 11/02/92 |
| Date Sample Received by Laboratory | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/03/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date of Sample Analysis | | 12/17/92 | 12/15/92 | 12/17/92 | 12/17/92 | 12/15/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-D19 | RNS-GW-D15 | RNS-GW-D16 | RNS-GW-D17 | RNS-GW-T1 |
| Laboratory Sample Number | | M079 | M086 | M013 | M083 | M098 |
| Remarks | | Dup GW-D14 | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | UJ |
| Photomirex | 0.0474 | | | | | 0.0437 J |
| Mirex | 0.00544 | | | 0.006 J | | 0.618 J |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 5.0 | 5.0 |
| Date of Sample Collection | | 11/02/92 | 11/03/92 | 10/21/92 | 11/03/92 | 11/04/92 |
| Date Sample Received by Laboratory | | 11/03/92 | 11/04/92 | 10/22/92 | 11/04/92 | 11/05/92 |
| Date Sample Extracted | | 11/05/92 | 11/05/92 | 10/23/92 | 11/05/92 | 11/09/92 |
| Date of Sample Analysis | | 12/15/92 | 12/15/92 | 11/06/92 | 12/15/92 | 12/18/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-T1DL | RNS-GW-T2 | RNS-GW-T2DL | RNS-GW-RW1 | RNS-GW-RW1DL |
| Laboratory Sample Number | | M098DL | M099 | M099DL | M106 | M106DL |
| Remarks | | | Dilution | Dilution | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | |
| Kepone | 0.132 | R | 0.753 R | | 9.96 J | |
| Photomirex | 0.0474 | | 1.99 J | 2.11 J | 2.38 JN | 0.856 N |
| Mirex | 0.00544 | 0.9280 | 7.57 J | 16.4000 | 10.5 J | 24.7000 |
| | | | | | | |
| Reporting Limit Multiplier | | 10.0 | 1.0 | 100.0 | 1.0 | 100.0 |
| Date of Sample Collection | | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 | 11/04/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 |
| Date Sample Extracted | | 11/09/92 | 11/09/92 | 11/09/92 | 11/10/92 | 11/10/92 |
| Date of Sample Analysis | | 12/22/92 | 12/18/92 | 12/18/92 | 12/20/92 | 12/28/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-RW1-107 | RNS-GW-AS | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-BS |
| Laboratory Sample Number | | M108 | M037 | M036 | M038 | M039 |
| Remarks | | Field Blank | | | W12 | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | R | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | 0.0120 | | 0.0220 J | | 0.00227 J |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 11/04/92 | 10/26/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 11/05/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 11/10/92 | 10/29/92 | 10/29/92 | 10/29/92 | 10/29/92 |
| Date of Sample Analysis | | 12/20/92 | 11/12/92 | 11/12/92 | 11/13/92 | 11/13/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-CS | RNS-GW-CUB | RNS-GW-CLB | RNS-GW-DVF2 | RNS-GW-DVF3 |
| Laboratory Sample Number | | M005 | M006 | M021 | M020 | M019 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | 0.003 J | 0.007 J | 0.0120 | 0.003 J | 0.004 J |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 11/04/92 | 11/05/92 | 11/06/92 | 11/06/92 | 11/06/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-DLB | RNS-GW-EVF1 | RNS-GW-EVF2 | RNS-GW-EVF3 | RNS-GW-EVF4 |
| Laboratory Sample Number | | M018 | M010 | M011 | M012 | M022 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | 0.0130 | | 0.003 J | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/21/92 | 10/21/92 | 10/21/92 | 10/21/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/22/92 | 10/22/92 | 10/21/92 | 10/22/92 | 10/23/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/27/92 |
| Date of Sample Analysis | | 11/06/92 | 11/05/92 | 11/05/92 | 11/06/92 | 11/11/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-EVF5 | RNS-GW-FVF3 | RNS-GW-FVF4 | RNS-GW-FVF4-103 | RNS-GW-FVF6 |
| Laboratory Sample Number | | M014 | M027 | M026 | M028 | M032 |
| Remarks | | Dup GW-EVF3 | | | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | |
| Kepone | 0.132 | UJ | | | | |
| Photomirex | 0.0474 | UJ | | | | |
| Mirex | 0.00544 | UJ | | | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/21/92 | 10/22/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/22/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date Sample Extracted | | 10/23/92 | 10/27/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 11/06/92 | 11/12/92 | 11/12/92 | 11/11/92 | 11/12/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-FLB | RNS-GW-GUB | RNS-GW-HS | RNS-GW-HUB | RNS-GW-HVF1 |
| Laboratory Sample Number | | M033 | M101 | M030 | M029 | M031 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | R | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | 0.0593 | | 0.00279 J | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/22/92 | 11/04/92 | 10/22/92 | 10/22/92 | 10/22/92 |
| Date Sample Received by Laboratory | | 10/23/92 | 11/05/92 | 10/23/92 | 10/23/92 | 10/23/92 |
| Date Sample Extracted | | 10/27/92 | 11/09/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date of Sample Analysis | | 11/12/92 | 12/22/92 | 11/12/92 | 11/12/92 | 11/12/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-IS | RNS-GW-II | RNS-IUB | RNS-GW-ILB | RNS-GW-JVF2 |
| Laboratory Sample Number | | M001 | M002 | M003 | M009 | M051 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | | | 0.0140 | 0.00705 |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/19/92 | 10/19/92 | 10/20/92 | 10/21/92 | 10/27/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/21/92 | 10/21/92 | 10/23/92 | 10/28/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/23/92 | 10/23/92 | 10/29/92 |
| Date of Sample Analysis | | 11/05/92 | 11/05/92 | 11/05/92 | 11/05/92 | 11/17/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 | RNS-GW-KVF4 |
| Laboratory Sample Number | | M052 | M053 | M048 | M016 | M017 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting | | | | | |
| | Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | | | 0.003 J | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/27/92 | 10/27/92 | 10/27/92 | 10/21/92 | 10/21/92 |
| Date Sample Received by Laboratory | | 10/28/92 | 10/28/92 | 10/28/92 | 10/22/92 | 10/21/92 |
| Date Sample Extracted | | 10/29/92 | 10/29/92 | 10/29/92 | 10/23/92 | 10/23/92 |
| Date of Sample Analysis | | 11/17/92 | 11/17/92 | 11/13/92 | 11/06/92 | 11/06/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-KLB | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 |
| Laboratory Sample Number | | M007 | M008 | M044 | M043 | M046 |
| Remarks | | | Dup GW-KLB | | | Dup GW-LVF2 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | |
| Kepone | 0.132 | | | | | |
| Photomirex | 0.0474 | | | | | |
| Mirex | 0.00544 | | | | | |
| | | | | | | |
| Reporting Limit Multiplier | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Date of Sample Collection | | 10/20/92 | 10/20/92 | 10/26/92 | 10/26/92 | 10/26/92 |
| Date Sample Received by Laboratory | | 10/21/92 | 10/21/92 | 10/27/92 | 10/27/92 | 10/27/92 |
| Date Sample Extracted | | 10/23/92 | 10/23/92 | 10/29/92 | 10/29/92 | 10/29/92 |
| Date of Sample Analysis | | 11/05/92 | 11/05/92 | 11/13/92 | 11/13/92 | 11/13/92 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | |
|---|---|---|
| ERM-Midwest Sample Number | | RNS-GW-LLB |
| Laboratory Sample Number | | M045 |
| Remarks | | |
| Units | | ug/L |
| | Reporting | |
| | Limit(Aq) | |
| Kepone | 0.132 | |
| Photomirex | 0.0474 | |
| Mirex | 0.00544 | 0.0217 |
| | | |
| Reporting Limit Multiplier | | 1.0 |
| Date of Sample Collection | | 10/26/92 |
| Date Sample Received by Laboratory | | 10/27/92 |
| Date Sample Extracted | | 10/29/92 |
| Date of Sample Analysis | | 11/13/92 |
| Instrument Used for Analysis | | MS-4000 |

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# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Dioxins/Furans

| DIOXIN AND FURAN ANALYTICAL RESULTS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-S12 | RNS-GW-S6 | RNS-GW-T2 | RNS-GW-S18 | RNS-GW-S22 |
| Laboratory Sample Number | 32085 | 32086 | 32087 | 32088 | 32089 |
| Remarks | | | | | Dup GW-S18 |
| Units | pg/L | pg/L | pg/L | pg/L | pg/L |
| DIOXINS AND FURANS | | | | | |
| | | | | | |
| Total TCDD | 16.3 J | ND( 10.8 cdl) R | ND( 10.6 cdl) R | ND( 10.6 cdl) R | 42.8 J |
| 2,3,7,8-TCDD | ND( 10.4 cdl) R | ND( 10.8 cdl) R | ND( 10.6 cdl) R | ND( 10.6 cdl) R | 16.7 (mpc) J |
| Total PeCDDS | 65.1 J | ND( 54.0 cdl) R | ND( 53.0 cdl) R | 138 J | 257 J |
| 1,2,3,7,8-PeCDD | ND( 51.9 cdl) R | ND( 54.0 cdl) R | ND( 53.0 cdl) R | ND( 52.9 cdl) R | ND( 51.3 cdl) R |
| Total HxCDDs | 139 J | 60.3 J | ND( 53.0 cdl) R | 187 J | ND( 51.3 cdl) R |
| 1,2,3,4,7,8-HxCDD | ND( 52.6 cdl) R | ND( 54.0 cdl) R | ND( 53.1 cdl) R | ND( 52.9 cdl) R | ND( 51.3 cdl) R |
| 1,2,3,6,7,8-HxCDD | ND( 51.8 cdl) R | ND( 54.0 cdl) R | ND( 53.0 cdl) R | ND( 52.9 cdl) R | ND( 51.3 cdl) R |
| 1,2,3,7,8,9-HxCDD | ND( 52.5 cdl) R | ND( 54.0 cdl) R | ND( 53.1 cdl) R | ND( 52.9 cdl) R | ND( 51.3 cdl) R |
| Total HpCDDs | 180 J | 145 J | 256 J | 348 J | 334 J |
| 1,2,3,4,6,7,8-HpCDD | 98.9 J | 81.4 J | 137 J | 184 J | 163 J |
| OCDD | 195 J | ND( 108 cdl) R | 445 J | 426 J | 532 J |
| Total TCDFs | 216 J | 144 J | 2310 J | 1660 J | 1930 J |
| 2,3,7,8-TCDF | 22 J | 16.4 (mpc) J | 205 J | 114 J | 167 J |
| Total PeCDFs | 1010 J | 771 J | 1460 J | 2150 J | 2430 J |
| 1,2,3,7,8-PeCDF | 81.5 J | 64.1 J | ND( 52.9 cdl) R | 98 J | 90 J |
| 2,3,4,7,8-PeCDF | 89.9 J | 65.9 J | 272 J | 175 J | 189 J |
| Total HxCDFs | 1060 J | 823 J | 1250 J | 1290 J | 1040 J |
| 1,2,3,4,7,8-HxCDF | 213 J | 151 J | 271 J | 283 J | 246 J |
| 1,2,3,6,7,8-HxDCF | 145 J | 114 J | 158 J | 160 J | 119 J |
| 2,3,4,6,7,8-HxCDF | 91.7 J | 73.5 J | 111 J | 119 J | 93.5 J |
| 1,2,3,7,8,9-HxCDF | ND( 51.8 cdl) R | ND( 54.1 cdl) R | ND( 53.0 cdl) R | ND( 52.9 cdl) R | ND( 51.3 cdl) R |
| Total HpCDFs | 854 J | 572 J | 843 J | 1390 J | 1100 J |
| 1,2,3,4,6,7,8-HpCDF | 526 J | 321 J | 464 J | 475 J | 293 J |
| 1,2,3,4,7,8,9-HpCDF | 79.1 J | 60.5 J | 111 J | 112 J | 100 J |
| OCDF | 486 J | 158 J | 386 J | 407 J | 412 J |
| | | | | | |
| Date Sample Collected | Nov-2-1992 | Nov-3-1992 | Nov-4-1992 | Nov-4-1992 | Nov-4-1992 |
| Date Sample Received by Laboratory | Nov-3-1992 | Nov-5-1992 | Nov-5-1992 | Nov-5-1992 | Nov-5-1992 |
| Date Sample Extracted | Jan-19-1993 | Jan-19-1993 | Jan-19-1993 | Jan-19-1993 | Jan-19-1993 |
| Date Sample Analyzed | Jan-30-1993 | Jan-30-1993 | Jan-30-1993 | Jan-30-1993 | Jan-30-1993 |

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# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 1 GROUNDWATER RESULTS

## Inorganics

| INORGANIC - ANALYTICAL RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-MW Sample Number | | | RNS-GW-S6 | RNS-GW-S12 | RNS-GW-T2 | RNS-GW-S22 | RNS-GW-S18 |
| Laboratory Sample Number | | | 002 | 001 | 003 | 005 | 004 |
| Remarks | | | | | | Dup GW-S18 | |
| Units | | | ug/L | ug/L | ug/L | ug/L | ug/L |
| INORGANIC ELEMENTS | | Detection Limit | | | | | |
| Aluminum | P | 19.3 | 476.6 | 754230 | (5 X) | 349630 | 406070 |
| Antimony | F | 2.3 | | 5.9 | | | |
| Arsenic | F | 1.6 | 58.0 | 58.0 | (10 X) | 18.0 | 17.0 |
| Barium | P | 1.1 | 103.1 | 182.5 J | 83.45 | 27.75 U | 30.5 U |
| Beryllium | P | 0.6 | (5 X) | 78.0 J | (5 X) | 22.3 | 25.15 J |
| Cadmium | P | 1.7 | (5 X) | 123 J | (5 X) | 15.55 | 15.6 J |
| Calcium | P | 3.7 | 221950 | 529690 | 317500 | 749570 | 775810 |
| Chromium | P | 2.9 | (5 X) | 171.2 J | 441 U | 88.65 U | 106.35 J |
| Cobalt | P | 2.7 | (5 X) | 994.4 | 318 U | 556.45 | 660.7 |
| Copper | P | 2.2 | 21.25 U | 2141.4 | 12.0 U | 710.65 J | 993.9 J |
| Iron | P | 5.7 | 198820 | 716630 | 17854 | 399380 J | 514440 J |
| Lead | F | 0.9 | 1.6 U | 756 J | UJ | 5.1 U | 12.7 J |
| Magnesium | P | 37.2 | 39201 | 313990 | 93234 | 197990 | 228450 |
| Manganese | P | 1.1 | 3201 | 95073 | 513.8 | 86160 | 101960 |
| Mercury | CV | 0.2 | 0.20 | 0.70 | | 1.56 | 1.34 |
| Nickel | P | 5.0 | 94.4 U | 2265.1 J | 49.8 U | 1003.9 J | 1093.6 J |
| Potassium | P | 339.2 | (5 x) R | 16716 J | 3755.8 J | 15023 J | 17033 J |
| Selenium | F | 1.5 | | | | | |
| Silver | P | 3.1 | (5 X) UJ | 43.45 U | 19.25 U | 40.6 U | 40.3 U |
| Sodium | P | 14.7 | 143130 | 1736700 | 131550 | 391050 | 464610 |
| Thallium | F | 2.6 | (10 X) | (10 X) | (10 X) | (10 X) | (10 X) |
| Vanadium | P | 2.8 | (5 X) | 118.2 J | 14.95 U | 552.1 | 635.85 |
| Zinc | P | 2.3 | 584.1 | 12598 | 594.8 | 2891.8 | 3351.7 |
| Cyanide | A | 10 | UJ | UJ | UJ | 15 J | 23 J |

ANALYTICAL METHOD:

P - Inductively Coupled Plasma
F - Graphite Furnace Atomic Absorption
CV - Cold Vapor Atomic Absorption
A - Auto Analyzer

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# APPENDIX K

## (ROUND 2)
## LABORATORY ANALYTICAL RESULTS

## APPENDIX K

## ROUND 2 GROUNDWATER

- Volatile Compounds
- Volatile Tentatively Identified Compounds
- Semivolatile Compounds
- Semivolatile Tentatively Identified Compounds
- Pesticides/PCBs
- Mirex, Photomirex and Kepone
- Dioxins/Furans
- Inorganics

LEGEND:

| | |
|---|---|
| - | Compound was not detected. |
| J | Quantitation is approximate due to limitations identified during the quality control review (data validation). |
| N | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification." |
| R | Unreliable result - analyte may or may not be present in this sample. |
| UL | This analyte was not detected, but the quantitation limit is higher due to a low bias identified during the quality assurance review. |
| U | This compound should be considered "not detected" since it was detected in a blank at a similar level. |
| S | Matrix spike compound. |
| NA | Not analyzed. |
| B | This result is qualitatively suspect since this compound was detected in field and/or laboratory blanks at similar levels. |
| NR | Not received in time to be included in this submittal. |
| blank | The compound/constituent was analyzed for, but was not detected at a concentration at/or above the quantitation limit/detection limit. |

* The presence of this compound is indicated; however, the exact concentration cannot be calculated.

** This result for this compound is being reported from a dilution analysis.

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 2 GROUNDWATER RESULTS

## Volatile Compounds

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-S1R | GW-S2 | GW-S3R | GW-S4R | GW-S5R |
|---|---|---|---|---|---|---|
| *Laboratory Sample Number* | | V406 | V277 | V407 | V409 | V412 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 10 U | | 10 U | 10 U | 10 U |
| Bromomethane | 10 | | | | UJ | UJ |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | UJ | | UJ | UJ | UJ |
| Methylene Chloride | 10 | UJ | | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 2 J | 7 J | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | UJ | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 4 J | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | UJ | | | |
| Tetrachloretherie | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/23/93 | 02/22/93 | 03/23/93 | 03/23/93 | 03/23/93 |
| Date Sample Received by Laboratory | | 03/24/93 | 02/23/93 | 03/24/93 | 03/24/93 | 03/24/93 |
| Date of Sample Analysis | | 03/24/93 | 03/03/93 | 03/24/93 | 03/25/93 | 03/25/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-S6 | GW-S6-11 | GW-S7 | GW-S8 | GW-S9R |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V295 | V297 | V283 | V291 | V402 |
| Remarks | | | Field Blank | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Ag) | | | | | |
| Chloromethane | 10 | | 15 | | 50 U | 12 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | 2 J | 92 | |
| Chloroethane | 10 | | | | | UJ |
| Methylene Chloride | 10 | | | | | UJ |
| Acetone | 10 | 2000 U | 3 J | 10 U | | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 19000 | | 95 | 110 | 4 J |
| Chloroform | 10 | 1200 J | | | | |
| 1,2-Dichloroethane | 10 | | | 2 J | 660 | |
| 2-Butanone | 10 | | UJ | | | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | UJ | UJ | UJ | |
| 1,1,2,2-Tetrachloroethane | 10 | 2700 | | 10 U | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 7900 | | 56 | 50 U | 6 J |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 6800 | | 1 J | 360 | 3 J |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | UJ | | | | |
| 2-Hexanone | 10 | | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | UJ | | | |
| Tetrachlorethene | 10 | 12000 | | 10 U | | |
| Toluene | 10 | 2000 | | | | |
| Chlorobenzene | 10 | 2000 | | 3 J | 13 J | |
| Ethylbenzene | 10 | 1200 J | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 200 | 1 | 1 | 5 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/23/93 | 02/23/93 | 03/22/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/24/93 | 02/24/93 | 03/23/93 |
| Date of Sample Analysis | | 03/08/93 | 03/03/93 | 03/05/93 | 03/05/93 | 03/24/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-S10R | GW-S11R | GW-S12 | GW-S21 | GW-S13 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V403 | V404 | V288 | V289 | V278 |
| Remarks | | | | | Dup GW-S12 | |
| Units | | ug/L | ug/L | ug/L | ug/L | µg/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 10 U | 10 U | | | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | UJ | UJ | | | |
| Methylene Chloride | 10 | UJ | UJ | 2500 U | 2500 U | 10 U |
| Acetone | 10 | UJ | 10 U | 2500 U | 2500 U | |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | 20 | 790 J | 790 J | 45 |
| Chloroform | 10 | | | 540 J | 530 J | 2 J |
| 1,2-Dichloroethane | 10 | | 1 J | 17000 | 17000 | 64 |
| 2-Butanone | 10 | UJ | UJ | | | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | 22000 | 23000 | 60 |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | 4500 | 4900 | 240J |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | 3J |
| Benzene | 10 | | 4 J | 22000 | 25000 | 61 |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | UJ | UJ | |
| 2-Hexanone | 10 | UJ | UJ | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorether e | 10 | | | 5600 | 5700 | 10U |
| Toluene | 10 | | | 1900 J | 2000 J | |
| Chlorobenzene | 10 | | 3 J | 550 J | 570 J | 2 J |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 250 | 250 | 1 |
| Date of Sample Collection | | 03/22/93 | 03/22/93 | 02/23/93 | 02/23/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 03/23/93 | 03/23/93 | 02/24/93 | 02/24/93 | 02/23/93 |
| Date of Sample Analysis | | 03/24/93 | 03/24/93 | 03/08/93 | 03/08/93 | 03/04/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-S13DL | GW-S14R | GW-S15 | GW-S16R | GW-S17 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V278 | V415 | V279 | V420 | V272 |
| Remarks | | Dilution | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | 10 U | | 10 U | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | 150 | 9 J |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | 250 U | UJ | | UJ | 10 U |
| Acetone | 10 | | 10 U | 10 U | 10 U | UJ |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 460 | | | 57 | 130 |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | 610 | UJ | | 14 J | 2 J |
| 2-Butanone | 10 | | | UJ | | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | UJ | | |
| 1,1,2,2-Tetrachloroethane | 10 | 600 | UJ | | UJ | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 2300 | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 620 | | | | 7 J |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | UJ | UJ | UJ | UJ |
| Tetrachlorethene | 10 | 250 U | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | 1 J |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 25 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/22/93 | 03/23/93 | 02/22/93 | 03/23/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 03/24/93 | 02/23/93 | 03/24/93 | 02/23/93 |
| Date of Sample Analysis | | 03/04/93 | 03/29/93 | 03/03/93 | 03/29/93 | 03/03/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-S20 | GW-S18 | GW-D1R | GW-D1-110R | GW-D2 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V273 | V294 | V400 | V401 | V290 |
| Remarks | | Dup GW-S17 | | | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | 12 U | 6 J | 10 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | 11 | | | | |
| Chloroethane | 10 | | | UJ | UJ | |
| Methylene Chloride | 10 | | | UJ | UJ | |
| Acetone | 10 | UJ | | 10 U | 2 J | |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 140 | | | | 16 |
| Chloroform | 10 | | 720 J | | | |
| 1,2-Dichloroethane | 10 | 2 J | 18000 | | | |
| 2-Butanone | 10 | UJ | | UJ | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | 60000 | | | 9 J |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | 20000 | | | 77 |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 6 J | 45000 | | | 15 |
| cis-1,3-Dichloropropene | 10 | | UJ | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | UJ | | | | |
| Tetrachlorethene | 10 | | 32000 | | | 210 J |
| Toluene | 10 | | 7500 | | | |
| Chlorobenzene | 10 | 1 J | 4700 J | | | 3 J |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | 5000 U | | | |
| Quantitation Limit Multiplier | | 1 | 500 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/22/93 | 02/24/93 | 03/22/93 | 03/22/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/25/93 | 03/23/93 | 03/23/93 | 02/24/93 |
| Date of Sample Analysis | | 03/03/93 | 03/09/93 | 03/24/93 | 03/24/93 | 03/05/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D2DL | GW-D3R | GW-D4R | GW-D5R | GW-D18R |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V290 | V408 | V410 | V413 | V414 |
| Remarks | | Dilution | | | | Dup GW-D5R |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | 10 | | UJ | UJ | UJ | UJ |
| Vinyl Chloride | 10 | | 3 J | | | |
| Chloroethane | 10 | | UJ | UJ | UJ | UJ |
| Methylene Chloride | 10 | 42 J | UJ | UJ | UJ | UJ |
| Acetone | 10 | | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | 2 J | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 7 J | 240 | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | 80 | | | |
| 2-Butanone | 10 | | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | UJ | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | 8 J | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 73 | 91 | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 15 J | 120 | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | 7 J | | | | |
| Tetrachlorethene | 10 | 190 | 4 J | | 1 J | |
| Toluene | 10 | | 7 J | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 5 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 03/23/93 | 03/23/93 | 03/23/93 | 03/23/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 03/24/93 | 03/24/93 | 03/24/93 | 03/24/93 |
| Date of Sample Analysis | | 03/05/93 | 03/25/93 | 03/25/93 | 03/25/93 | 03/25/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D5-219R | GW-D6 | GW-D7R | GW-D7RD | GW-D7-220 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V411 | V296 | V416 | V416 | V271 |
| Remarks | | Trip Blank | | | Dilution | Trip Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | | | 12 |
| Bromomethane | 10 | UJ | | UJ | | |
| Vinyl Chloride | 10 | | 150 J | 42 | 28 J | |
| Chloroethane | 10 | UJ | | UJ | UJ | |
| Methylene Chloride | 10 | UJ | 500 U | UJ | | |
| Acetone | 10 | 2 J | | 10 U | 200 U | 2 J |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | 4 J | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | 2700 | 1600 J | 1100 | |
| Chloroform | 10 | | 200 J | | | |
| 1,2-Dichloroethane | 10 | | 1800 | 22 | 23 J | |
| 2-Butanone | 10 | UJ | | UJ | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | 500 U | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | 6100 | 130 | 100 J | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | 1200 | 8 J | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | UJ | | | |
| 2-Hexanone | 10 | UJ | | UJ | UJ | |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | 500 U | 43 | 36 J | |
| Toluene | 10 | | | 1 J | | |
| Chlorobenzene | 10 | | 220 J | 6 J | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 50 | 1 | 20 | 1 |
| Date of Sample Collection | | 03/23/93 | 02/24/93 | 03/23/93 | 03/23/93 | 02/17/93 |
| Date Sample Received by Laboratory | | 03/24/93 | 02/25/93 | 03/24/93 | 03/24/93 | 02/18/93 |
| Date of Sample Analysis | | 03/25/93 | 03/08/93 | 03/25/93 | 03/26/93 | 03/02/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D8 | GW-D8DL | GW-D9R | GW-D10R | GW-D11 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V274 | V274 | V419 | V378 | V284 |
| Remarks | | | Dilution | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | 10 U | 10 U | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | 53 | 490 J | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | 10 U | | UJ | UJ | |
| Acetone | 10 | | 500 U | 10 U | 10 U | |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | 1 J | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 610 J | 5800 | | | 1000 |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | 14 | 130 J | UJ | | |
| 2-Butanone | 10 | | | | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | | UJ | | 5100 |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 3 J | | | | 5800 |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 26 | 270 J | | | 1600 |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | | | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | UJ | | |
| Tetrachlorethene | 10 | 2 J | | | | 17000 |
| Toluene | 10 | 1 J | | | | 200 J |
| Chlorobenzene | 10 | 4 J | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 50 | 1 | 1 | 100 |
| Date of Sample Collection | | 02/22/93 | 02/22/93 | 03/23/93 | 03/17/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/23/93 | 03/24/93 | 03/18/93 | 02/24/93 |
| Date of Sample Analysis | | 03/04/93 | 03/04/93 | 03/29/93 | 03/22/93 | 03/05/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D11-222 | GW-D12 | GW-D13 | GW-D14 | GW-D19 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V286 | V287 | V285 | V280 | V281 |
| Remarks | | Trip Blank | | | | Dup GW-D14 |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | | | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | | 3500 U | | | |
| Acetone | 10 | UJ | 2500 U | UJ | | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | 1700 J | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | UJ | | UJ | | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | UJ | | UJ | | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | 11000 | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | 8500 | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | UJ | 1300 J | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | UJ | | | |
| 2-Hexanone | 10 | UJ | | UJ | | UJ |
| 4-Methyl-2-Pentanone | 10 | UJ | | UJ | | UJ |
| Tetrachlorethene | 10 | | 38000 | | | |
| Toluene | 10 | UJ | 780 J | | | |
| Chlorobenzene | 10 | UJ | 570 J | | | |
| Ethylbenzene | 10 | UJ | | | | |
| Styrene | 10 | UJ | | | | |
| Total Xylenes | 10 | UJ | | | | |
| Quantitation Limit Multiplier | | 1 | 250 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 02/23/93 | 02/23/93 | 02/22/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 02/24/93 | 02/24/93 | 02/23/93 | 02/23/93 |
| Date of Sample Analysis | | 03/03/93 | 03/08/93 | 03/03/93 | 03/04/93 | 03/03/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D14-221 | GW-D15 | GW-D15DL | GW-D16R | GW-D17 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V282 | V276 | V276 | V363 | V275 |
| Remarks | | Trip Blank | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | | 27 U | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | 16 |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | | 250 U | | UJ | |
| Acetone | 10 | UJ | | | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | 4 J |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | 5400 | 5500 | | 950 J |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | 260 | 240 J | | 12 |
| 2-Butanone | 10 | UJ | | | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | UJ | | | | UJ |
| 1,1,2,2-Tetrachloroethane | 10 | | 250 U | 500 U | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | 1600 | 1600 | | 25 |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | UJ | | | | |
| Benzene | 10 | | 1200 | 1100 | | 28 |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | | | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | UJ | | | | UJ |
| Tetrachlorethene | 10 | | 970 | 910 | | 10 U |
| Toluene | 10 | UJ | | | | 1 J |
| Chlorobenzene | 10 | UJ | 55 J | 51 J | | 7 J |
| Ethylbenzene | 10 | UJ | | | | |
| Styrene | 10 | UJ | | | | |
| Total Xylenes | 10 | UJ | | | | |
| Quantitation Limit Multiplier | | 1 | 25 | 50 | 1 | 1 |
| Date of Sample Collection | | 02/22/93 | 02/22/93 | 02/22/93 | 03/15/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/23/93 | 02/23/93 | 03/17/93 | 02/23/93 |
| Date of Sample Analysis | | 03/03/93 | 03/04/93 | 03/04/93 | 03/19/93 | 03/03/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-D17DL | GW-T1 | GW-T2 | GW-T2-22 | GW-RW1 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V275 | V292 | V293 | V300 | V304 |
| Remarks | | Dilution | | | Trip Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | 1000 U | | | |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | 1600 | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | 100 U | 1000 U | | | |
| Acetone | 10 | UJ | | | UJ | |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 780 | 12000 | | | 2400 J |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | 1300 | | | |
| 2-Butanone | 10 | UJ | | | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | UJ | | | UJ | |
| 1,1,2,2-Tetrachloroethane | 10 | | | 5300 J | | 10000 |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 20 J | 1000 U | 19000 | | 8100 |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | 24 J | | | | |
| Benzene | 10 | | 860 J | 5100 J | UJ | 4400 J |
| cis-1,3-Dichloropropene | 10 | | | UJ | | UJ |
| Bromoform | 10 | | UJ | | | |
| 2-Hexanone | 10 | UJ | | | UJ | |
| 4-Methyl-2-Pentanone | 10 | UJ | | | UJ | |
| Tetrachloroethene | 10 | | | 100000 | | 92000 |
| Toluene | 10 | | 100 J | 1300 J | UJ | |
| Chlorobenzene | 10 | | 480 J | | UJ | |
| Ethylbenzene | 10 | | | | UJ | |
| Styrene | 10 | | | | UJ | |
| Total Xylenes | 10 | | | | UJ | |
| Quantitation Limit Multiplier | | 10 | 100 | 1000 | 1 | 500 |
| Date of Sample Collection | | 02/22/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 |
| Date of Sample Analysis | | 03/03/93 | 03/08/93 | 03/09/93 | 03/03/93 | 03/09/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-RW1-112 | GW-S22R | GW-ASR | GW-A-UBR | GW-A-VF1R |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V306 | V421 | V396 | V397 | V398 |
| Remarks | | Field Blank | Dup of RW | | | Dup GW-AUB |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 12 | UJ | 14 U | 11 U | 10 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | UJ | UJ | UJ |
| Methylene Chloride | 10 | | UJ | UJ | UJ | UJ |
| Acetone | 10 | 3 J | 5000 U | 10 U | UJ | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | 2100 J | 11 | | |
| Chloroform | 10 | | | 1 J | | |
| 1,2-Dichloroethane | 10 | | UJ | 170 | 82 | 80 |
| 2-Butanone | 10 | UJ | | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | UJ | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | 11,000 J | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | 8400 | 6 J | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | 4700 J | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | UJ | UJ | | | |
| Tetrachlorethene | 10 | | 68000 | | | |
| Toluene | 10 | | 580 J | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 500 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 03/23/93 | 03/22/93 | 03/22/93 | 03/22/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 03/24/93 | 03/23/93 | 03/23/93 | 03/23/93 |
| Date of Sample Analysis | | 03/03/93 | 03/29/93 | 03/24/93 | 03/24/93 | 03/24/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-BSR | GW-BS-218 | GW-CSR | GW-CUBR | GW-C-LBR |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V399 | V405 | V367 | V368 | V365 |
| Remarks | | | Trip Blank | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | | | 20 J | 16 J | 47 J |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | 790 | | | | |
| Chloroethane | 10 | UJ | UJ | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 500U | 2 J | 10 U | 10 U | 21 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 11000 | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | 4900 | | | | |
| 2-Butanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | 3700 | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 6100 | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | 100J | | | | |
| Toluene | 10 | 93J | | | | |
| Chlorobenzene | 10 | 390J | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 50 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 3/22/93 | 03/22/93 | 03/16/93 | 03/16/93 | 03/16/93 |
| Date Sample Received by Laboratory | | 3/23/93 | 03/23/93 | 03/17/93 | 03/17/93 | 03/17/93 |
| Date of Sample Analysis | | 3/24/93 | 03/24/93 | 03/19/93 | 03/19/93 | 03/19/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-DVF2 | GW-DVF3 | GW-D-LBR | GW-EVF1 | GW-EVF2 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V373 | V374 | V384 | V356 | V357 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 21 U | 15 U | 16 J |
| Bromomethane | 10 | | | UJ | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | UJ | UJ | UJ | | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | | |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/16/93 | 03/16/93 | 03/17/93 | 03/15/93 | 03/15/93 |
| Date Sample Received by Laboratory | | 03/17/93 | 03/17/93 | 03/18/93 | 03/17/93 | 03/17/93 |
| Date of Sample Analysis | | 03/22/93 | 03/22/93 | 03/23/93 | 03/18/93 | 03/18/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-EVF3 | GW-EVF5R | GW-EVF4 | GW-ELBR | GW-F-VF3 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V358 | V360 | V359 | V364 | V379 |
| Remarks | | | Dup GW-EVF3R | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 17 J | 22 J | 19 J | 13 U | 15 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | | UJ | | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | | UJ | | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/15/93 | 03/15/93 | 03/15/93 | 03/16/93 | 03/17/93 |
| Date Sample Received by Laboratory | | 03/17/93 | 03/17/93 | 03/17/93 | 03/17/93 | 03/18/93 |
| Date of Sample Analysis | | 03/18/93 | 03/18/93 | 03/18/93 | 03/19/93 | 03/22/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-FVF3-109 | GW-F-VF3-217 | GW-F-VF4 | GW-F-VF6 | GW-F-LBR |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V383 | V385 | V380 | V381 | V382 |
| Remarks | | Field Blank | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 11 J | 20 | 10 U | 10 U | 13 U |
| Bromomethane | 10 | UJ | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 3 J | 7 J | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | UJ |
| 2-Butanone | 10 | UJ | UJ | UJ | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | UJ |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | UJ |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/17/93 | 03/17/93 | 03/17/93 | 03/17/93 | 03/17/93 |
| Date Sample Received by Laboratory | | 03/18/93 | 03/18/93 | 03/18/93 | 03/18/93 | 03/18/93 |
| Date of Sample Analysis | | 03/23/93 | 03/23/93 | 03/22/93 | 03/22/93 | 03/29/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-GUB | GW-H-SR | GW-H-VF1R | GW-H-UBR | GW-ISR |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V301 | V377 | V375 | V376 | V351 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 200 U | 10 U | 10 U | 14 U | 21 J |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | 290 | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | | UJ | UJ | UJ | UJ |
| Acetone | 10 | | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | 5800 | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | 160 J | | | | |
| 2-Butanone | 10 | | UJ | UJ | UJ | |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | 240 | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | UJ | | | | |
| 2-Hexanone | 10 | | UJ | UJ | UJ | |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 20 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 03/16/93 | 03/15/93 | 03/15/93 | 03/15/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 03/17/93 | 03/17/93 | 03/17/93 | 03/17/93 |
| Date of Sample Analysis | | 03/08/93 | 03/22/93 | 03/22/93 | 03/22/93 | 03/18/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-IIR | GW-II-108 | GW-IUBR | GW-I-LBR | GW-JVF2R |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V352 | V355 | V353 | V354 | V390 |
| Remarks | | | Field Blank | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 11 U | 3 J | 14 U | 18 J | 14 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 1 J | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | | | | | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | | | | | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/15/93 | 03/15/93 | 03/15/93 | 03/15/93 | 03/22/93 |
| Date Sample Received by Laboratory | | 03/17/93 | 03/17/93 | 03/17/93 | 03/17/93 | 03/23/93 |
| Date of Sample Analysis | | 03/18/93 | 03/18/93 | 03/18/93 | 03/18/93 | 03/23/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

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VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-JVF3R | GW-JVF4R | GW-JLBR | GW-KVF2 | GW-KVF4 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V391 | V392 | V393 | V369 | V370 |
| Remarks | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 11 U | 13 U | 10 U | 15 U | 10 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 10 U | | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/22/93 | 03/22/93 | 03/22/93 | 03/16/93 | 03/16/93 |
| Date Sample Received by Laboratory | | 03/23/93 | 03/23/93 | 03/23/93 | 03/17/93 | 03/17/93 |
| Date of Sample Analysis | | 03/23/93 | 03/23/93 | 03/23/93 | 03/19/93 | 03/19/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS- | GW-KLBR | GW-KVF5R | GW-LVF1R | GW-LVF2R | GW-LVF3R |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V372 | V371 | V386 | V387 | V388 |
| Remarks | | | Dup GW-KLB | | | Dup GW-LVF2R |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | |
| Chloromethane | 10 | 10 U | 10 U | 11 U | 15 U | 12 U |
| Bromomethane | 10 | | | | | |
| Vinyl Chloride | 10 | | | | | |
| Chloroethane | 10 | | | | | |
| Methylene Chloride | 10 | UJ | UJ | UJ | UJ | UJ |
| Acetone | 10 | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | 10 | | | | | |
| 1,1-Dichloroethene | 10 | | | | | |
| 1,1-Dichloroethane | 10 | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | | |
| Chloroform | 10 | | | | | |
| 1,2-Dichloroethane | 10 | | | | | |
| 2-Butanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 1,1,1-Trichloroethane | 10 | | | | | |
| Carbon Tetrachloride | 10 | | | | | |
| Bromodichloromethane | 10 | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | | | | |
| 1,2-Dichloropropane | 10 | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | |
| Trichloroethene | 10 | | | | | |
| Dibromochloromethane | 10 | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | |
| Benzene | 10 | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | |
| Bromoform | 10 | | | | | |
| 2-Hexanone | 10 | UJ | UJ | UJ | UJ | UJ |
| 4-Methyl-2-Pentanone | 10 | | | | | |
| Tetrachlorethene | 10 | | | | | |
| Toluene | 10 | | | | | |
| Chlorobenzene | 10 | | | | | |
| Ethylbenzene | 10 | | | | | |
| Styrene | 10 | | | | | |
| Total Xylenes | 10 | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/16/93 | 03/16/93 | 03/22/93 | 03/22/93 | 03/22/93 |
| Date Sample Received by Laboratory | | 03/17/93 | 03/17/93 | 03/23/93 | 03/23/93 | 03/23/93 |
| Date of Sample Analysis | | 03/19/93 | 03/19/93 | 03/23/93 | 03/23/93 | 03/23/93 |
| Instrument Used for Analysis | | MS-5100 | MS-5100 | MS-5100 | MS-5100 | MS-5100 |

VOLATILE ORGANIC ANALYSIS

| | | |
|---|---|---|
| ERM-Midwest Sample Number | RNS- | GW-LLBR |
| Laboratory Sample Number | | V389 |
| Remarks | | |
| Units | | ug/L |
| VOLATILE COMPOUNDS | Quantitation Limit (Aq) | |
| Chloromethane | 10 | 10 U |
| Bromomethane | 10 | |
| Vinyl Chloride | 10 | |
| Chloroethane | 10 | |
| Methylene Chloride | 10 | UJ |
| Acetone | 10 | 10 U |
| Carbon Disulfide | 10 | |
| 1,1-Dichloroethene | 10 | |
| 1,1-Dichloroethane | 10 | |
| Total 1,2-Dichloroethene | 10 | |
| Chloroform | 10 | |
| 1,2-Dichloroethane | 10 | |
| 2-Butanone | 10 | UJ |
| 1,1,1-Trichloroethane | 10 | |
| Carbon Tetrachloride | 10 | |
| Bromodichloromethane | 10 | |
| 1,1,2,2-Tetrachloroethane | 10 | |
| 1,2-Dichloropropane | 10 | |
| trans-1,3-Dichloropropene | 10 | |
| Trichloroethene | 10 | |
| Dibromochloromethane | 10 | |
| 1,1,2-Trichloroethane | 10 | |
| Benzene | 10 | |
| cis-1,3-Dichloropropene | 10 | |
| Bromoform | 10 | |
| 2-Hexanone | 10 | UJ |
| 4-Methyl-2-Pentanone | 10 | |
| Tetrachlorethene | 10 | |
| Toluene | 10 | |
| Chlorobenzene | 10 | |
| Ethylbenzene | 10 | |
| Styrene | 10 | |
| Total Xylenes | 10 | |
| Quantitation Limit Multiplier | | 1 |
| Date of Sample Collection | | 03/22/93 |
| Date Sample Received by Laboratory | | 03/23/93 |
| Date of Sample Analysis | | 03/23/93 |
| Instrument Used for Analysis | | MS-5100 |

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# ROUND 2

## TENTATIVELY IDENTIFIED COMPOUNDS
## VOLATILES

| VOLATILE OR IIC ANALYSIS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-II-108R | RNS-GW-ISR | RNS-GW-IIR | RNS-GW-IUBR | RNS-GW-I-LBR | RNS-GW-EVF1R | RNS-GW-EVF2R | ..NS-GW-EVF3R |
| Laboratory Sample Number | V355 | V361 | V362 | V363 | V364 | V366 | V367 | V368 |
| Remarks | Field Blank | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | |
| AIR/CO2 (1.78) | 12 R | | 11 R | | 12 R | 12 R | 11 R | |
| AIR/CO2 (0.98) | | 6 R | 6 R | 5 R | 6 R | 6 R | 6 R | 6 R |
| AIR/CO2 (1.87) | | 12 R | | 12 R | | | | 12 R |
| HEXANE (4.93) | | | | | 10 R | | | |
| AIR/CO2 (0.78) | | | | | | | | |

| VOLATILE OR IIC ANALYSIS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-EVF4R | RNS-GW-EVF6I. | RNS-GW-ELb.. | RNS-GW-C-LBR | RNS-GW-KLB-216R | RNS-GW-CSR | RNS-GW-CUBR | RNS-GW-KVF2R |
| Laboratory Sample Number | V359 | V360 | V364 | V365 | V366 | V367 | V368 | V369 |
| Remarks | | Duplicate of RNS-GW-EVF3R | | | Trip Blank | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | |
| AIR/CO2 (1.78) | | | | 10 R | | | | |
| AIR/CO2 (0.98) | 6 R | 6 R | 6 R | | 5 R | 6 R | 6 R | 8 R |
| AIR/CO2 (1.87) | 13 R | 11 R | 11 R | | 14 R | 12 R | 12 R | 13 R |
| HEXANE (4.93) | | | 7 R | | | | | |
| AIR/CO2 (0.78) | | | 6 R | | | | | 7 R |

| VOLATILE OR IIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM Midwest Sample Number | RNS-GW-KVF3R | RNS-GW-KVF6R | RNS-GW-KLBR | RNS-GW-KLBR | RNS-GW-DVF2R | RNS-GW-DVF3R |
| Laboratory Sample Number | V370 | V371 | V372 | V372 | V373 | V374 |
| Remarks | | Duplicate of RNS-GW-KLBR | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | |
| AIR/CO2 (1.78) | | | | | 9 R | 10 R |
| AIR/CO2 (0.98) | 8 R | 8 R | 8 R | 8 R | 6 R | 6 R |
| AIR/CO2 (1.87) | 13 R | 13 R | 15 R | 15 R | | |
| HEXANE (4.93) | | | | | | |
| AIR/CO2 (0.78) | 7 R | 6 R | 6 R | 6 R | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam, umber | RNS-GW-D16R | RNS-GW-H-VF1R | RNS-GW-H-UBR | RNS-GW R | RNS-GW-D10R | RNS-GW-F-VF3R | RNS-GW-F-VF4R | RNS-GW-F-VF6R | RNS-GW-F-LBI | NS-GW-FVF3-109R |
| Laboratory Sample Number | V363 | V375 | V376 | V377 | V378 | V379 | V380 | V381 | V382 | V383 |
| Remarks | | | | | | | | | | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | | |
| AIR/CO2 (0.78) | 6 R | | | | | | | | | |
| AIR/CO2 (0.98) | 7 R | 5 R | 5 R | | 6 R | 6 R | 6 R | 6 R | 6 R | |
| AIR/CO2 (1.85) | 12 R | 10 R | 10 R | 95 R | 12 R | 12 R | 12 R | 13 R | 11 R | 9 R |
| HEXANE (3.33) | 17 R | | | | | | | | | |
| AIR/CO2 (2.68) | | | | | 5 R | | | | | |
| 3-METHYL-PENTANE (4.23) | | | | | | | | | 6 J | |
| HEXANE (4.90) | | | | | | | | | 92 R | |
| METHYL-CYCLOPENTANE (5.98) | | | | | | | | | 19 J | |
| AIR/CO2 (1.77) | | | | | | | | | | |
| AIR/CO2 (1.02) | | | | | | | | | | |

| VOLATILE OR NIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam, umber | RNS-GW-D LBR | RNS-GW-F-VF3-217 | RNS-GW-LVF1R | RNS-G. VF2R | RNS-GW-LVF3R | RNS-GW-LLBR | RNS-GW-JVF2R | RNS-GW-JVF3R | RNS G. F4R |
| Laboratory Sample Number | V384 | V385 | V386 | V387 | V388 | V389 | V390 | V391 | V392 |
| Remarks | | Trip Blank | | | Duplicate of RNS-GW-LVF2R | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | |
| AIR/CO2 (0 78) | 5 R | | 7 R | | 5 R | 6 R | 8 R | 6 R | 6 R |
| AIR/CO2 (0 98) | 6 R | | 9 R | 9 R | 7 R | 8 R | 11 R | 9 R | 9 R |
| AIR/CO2 (1.85) | 12 R | 15 R | 15 R | 15 R | 15 R | 14 R | 14 R | 15 R | 14 R |
| HEXANE (3.33) | | | | | | | | | |
| AIR/CO2 (2.68) | | | | | | | | | |
| 3-METHYL-PENTANE (4 23) | | | | | | | | | |
| HEXANE (4.90) | | | | | | | | | |
| METHYL-CYCLOPENTANE (5.98) | | | | | | | | | |
| AIR/CO2 (1.77) | | | | | | | | | |
| AIR/CO2 (1.02) | | | | | | | | | |

| VOLATILE OR NIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest Sam umber | RNS-GW-JLBR | RNS-GW-ASR | RNS-GW-A-UBR | RN A-VF1R |
| Laboratory Sample Number | V393 | V396 | V397 | V398 |
| Remarks | | | | Duplicate of RNS-GW-A-UBR |
| Units | µg/L | µg/L | µg/L | µg/L |
| LATILE TICS | | | | |
| R/CO2 (0 78) | 6 R | 7 R | 6 R | |
| AIR/CO2 (0 98) | 10 R | 8 R | | 6 R |
| AIR/CO2 (1.85) | 16 R | 5 R | 12 R | 12 R |
| HEXANE (3.33) | | | | |
| AIR/CO2 (2.68) | | | | |
| 3-METHYL-PENTANE (4 23) | | | | |
| HEXANE (4.90) | | | | |
| METHYL-CYCLOPENTANE (5.98) | | | | |
| AIR/CO2 (1.77) | | 10 R | | |
| AIR/CO2 (1.02) | | | 7 R | |

| VOLATILE ORG[illegible]C ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample [illegible]ber | RNS-GW-D7-220 | RNS-GW-S17 | RNS-GW-S20 | RNS-L[illegible] | RNS-GW-D8DL | RNS-GW-B-SR | RNS-GW-D1R | RNS-GW-D1-110R | RNS[illegible]9R |
| Laboratory Sample Number | V271 | V272 | V273 | V274 | V274 | V399 | V400 | V401 | V402 |
| Remarks | Trip Blank | | Duplicate of RNS-GW-S17 | | Dilution | | | Field Blank | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | |
| HEXANE (5.02) | | | | | | | | | |
| METHYLCYCLOPENTANE (6.12) | | | | | | | | | |
| 1-CHLOROCYCLOPENTENE (8.03) | | | | | | | | | |
| 2-CHLOROPROPANE (6.80) | | | | | | | | | |
| AIR/CO2 (1.63) | | 5 R | | | | | | | |
| AIR (0.70) | | | | 6 R | | | | | |
| AIR/CO2 (0.97) | | | | | | 350 R | 7 R | 6 R | 7 R |
| AIR/CO2 (1.82) | | | | | | 980 R | 16 R | | 16 R |
| AIR/CO2 (0.77) | | | | | | | 5 R | | |
| AIR/CO2 (1.87) | | | | | | | | 16 R | |
| AIR/CO2 (1.78) | | | | | | | | | |
| AIR/CO2 (1.73) | | | | | | | | | |
| AIR/CO2 (1.52) | | | | | | | | | |

VOLATILE ORG[illegible]C ANALYSIS

| ERM-Midwest Sample [illegible]ber<br>Laboratory Sample Number | RNS-GW-S10R<br>V403 | RNS-GW-S11R<br>V404 | RNS-GW-BS-218R<br>V405 | RNS-G[illegible]R<br>V406 | RNS-GW-S3R<br>V407 | RNS-GW-D3R<br>V408 | RNS-GW-S4R<br>V409 | RNS-GW-D4R<br>V410 | RNS-GW-D[illegible]R<br>V411 |
|---|---|---|---|---|---|---|---|---|---|
| Remarks | | | Trip Blank | | | | | | Trip Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | |
| HEXANE (5 02) | | | | | | | | | |
| METHYLCYCLOPENTANE (6 12) | | | | | | | | | |
| 1-CHLOROCYCLOPENTENE (8 03) | | | | | | | | | |
| 2-CHLOROPROPANE (6 80) | | | | | | | | | |
| AIR/CO2 (1 63) | | | | | | | | | |
| AIR (0.70) | | | | | | | | | |
| AIR/CO2 (0.97) | 8 R | 8 R | 7 R | 9 R | 8 R | 8 R | 8 R | 8 R | 8 R |
| AIR/CO2 (1 82) | 17 R | 17 R | 18 R | 18 R | 17 R | | | 18 R | |
| AIR/CO2 (0.77) | 7 R | 6 R | | 6 R | 6 R | 7 R | 6 R | 6 R | |
| AIR/CO2 (1 87) | | | | | | | | | 18 R |
| AIR/CO2 (1 78) | | | | | | 13 R | 14 R | | |
| AIR/CO2 (1.73) | | | | | | | | | |
| AIR/CO2 (1.52) | | | | | | | | | |

| VOLATILE ORG[illegible]C ANALYSIS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample [illegible]er | RNS-GW-S5R | RNS-GW-D5R | RNS-GW-D18R | RNS-GW[illegible]R | RNS GW D7R | RNS-GW-D7RDL | RNS GW-D9R | RNS GW-S16R |
| Laboratory Sample Number | V412 | V413 | V414 | V415 | V416 | V416 | V419 | V420 |
| Remarks | | | Duplicate of RNS-GW-D5R | | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | |
| HEXANE (5.02) | | 29 R | 26 R | | | | | |
| METHYLCYCLOPENTANE (6 12) | | 14 J | 12 J | | | | | |
| 1-CHLOROCYCLOPENTENE (8.03) | | 42 J | | | 61 J | | | |
| 2-CHLOROPROPANE (6.80) | | | | | | | | 5 J |
| AIR/CO2 (1.63) | | | | | | | | |
| AIR (0 70) | | | | | | | | |
| AIR/CO2 (0.97) | 9 R | 10 R | 9 R | 6 R | 8 R | 140 R | | |
| AIR/CO2 (1.82) | 19 R | 19 R | 18 R | | 19 R | 340 R | | |
| AIR/CO2 (0.77) | 6 R | 7 R | 6 R | 12 R | 8 R | | | |
| AIR/CO2 (1.87) | | | | | | | | |
| AIR/CO2 (1.78) | | | | | | | | |
| AIR/CO2 (1.73) | | | | | | | | |
| AIR/CO2 (1.52) | | | | | | | | |

VOLATILE OR NIC ANALYSIS

| ERM-Midwest San. Number<br>Laboratory Sample Number | RNS-GW-D17<br>V275 | RNS-GW-D17DL<br>V275 | RNS-GW-D16<br>V276 | RNS G... 2<br>V277 | RNS-GW-S13<br>V278 | RNS-GW-S13DL<br>V278 | RNS-GW-S16<br>V279 | RNS-GW-D14<br>V280 | RNS-GW-D19<br>V281 | RNS-GW-D14-221<br>V282 |
|---|---|---|---|---|---|---|---|---|---|---|
| Remarks | | Dilution | | | | Dilution | | | Duplicate of RNS-GW-D14 | Trip Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | | |
| AIR/CO2 (0 67) | 9 R | | 200 R | 8 R | | | 7 R | | 9 R | |
| AIR/CO2 (0 72) | | 60 R | | | | | | | | 6 R |
| AIR/CO2 (0 75) | | | | | | | | 10 R | | |
| AIR/CO2 (1 62) | | | | | | | | | | |
| AIR/CO2 (0 95) | | | | | | | | | | |
| AIR/CO2 (0 70) | | | | | | | | | | |
| AIR/CO2 (0 90) | | | | | | | | | | |
| HEXANE (4 47) | | | | | | | | | 16 R | |
| HEXANE (4 53) | | | | | | | | 13 R | | |
| METHYLCYCLOPENTANE (5 52) | | | | | | | | | 5 J | |
| TRICHLOROFLUOROMETHANE (1 83) | | | | | | | | | | |
| AIR/CO2 (1 60) | | | | | | | | | | |
| AIR/CO2 (1 58) | | | | | | | | | | |

| VOLATILE OR[illegible]NIC ANALYSIS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam[illegible] [illegible]umber<br>Laboratory Sample Number | RNS-GW-S7<br>V283 | RNS-GW-D11<br>V284 | RNS-GW-D13<br>V285 | RNS-G[illegible]-D11-222<br>V286 | RNS-GW-D12<br>V287 | RNS-GW-S12<br>V288 | RNS-GW-S21<br>V289 | RNS-GW-D2<br>V290 | RNS-GW-D2DL<br>V290 | RNS-GW-S8<br>V291 |
| Remarks | | | | Trip Blank | | | Duplicate of RNS-GW-S12 | | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | | | | |
| AIR/CO2 (0.67) | | | | | | | | | | |
| AIR/CO2 (0.72) | 8 R | | 9 R | | 1500 R | | | | | |
| AIR/CO2 (0.75) | | | | | | | | 7 R | | |
| AIR/CO2 (1.62) | 5 R | | | | | | | | | |
| AIR/CO2 (0.95) | | | | | | | | 5 R | 20 R | |
| AIR/CO2 (0.70) | | | | | | | | | | |
| AIR/CO2 (0.90) | | | | | | | | | | |
| HEXANE (4.47) | | | | | | | | | | |
| HEXANE (4.53) | | | | | | | | | | |
| METHYLCYCLOPENTANE (5.52) | | | | | | | | | | |
| TRIC[illegible]LOROFLUOROMETHANE (1.83) | | | | | | | | | | |
| AIR/CO2 (1.60) | | | | | | | | | | |
| AIR/CO2 (1.58) | | | | | | | | | | |

| VOLATILE OR ANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sa. lumber<br>Laboratory Sample Number | RNS-GW-T1<br>V292 | RNS-GW-T2<br>V293 | RNS-GW-S18<br>V294 | RN GW-S8<br>V295 | RNS-GW-D8<br>V296 | RNS-GW-S8-111<br>V297 | RNS-GW-T2 223<br>V300 |
| Remarks | | | | | | Field Blank | Trip Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | | | | |
| AIR/CO2 (0 67) | | | | | | | |
| AIR/CO2 (0 72) | | | | | | | |
| AIR/CO2 (0 75) | | | | | | | |
| AIR/CO2 (1 62) | 560 R | | | | | | |
| AIR/CO2 (0 95) | | | | | | | |
| AIR/CO2 (0 70) | | 5100 R | 2600 R | 1100 R | | | |
| AIR/CO2 (0 90) | | 6700 R | 4000 R | | | | |
| HEXANE (4 47) | | | | | | | |
| HEXANE (4 53) | | | | | | | |
| METHYLCYCLOPENTANE (5.52) | | | | | | | |
| TRICHLOROFLUOROMETHANE (1.83) | | | | | | 11 R | |
| AIR/CO2 (1 60) | | 9800 R | | | | | |
| AIR/CO2 (1 58) | | | 4400 R | | | | |

| VOLATILE OR NIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM-Midwest ıple Number | RNS GW GUB | RNS GW RW1 | RNS GW RW1 112 | .NS GW S22R |
| Laboratory Sample Number | V301 | V304 | V306 | V421 |
| Remarks | | | Field Blank | |
| Units | µg/L | µg/L | µg/L | µg/L |
| VOLATILE TICS | | | | |
| AIR/CO2 (0 70) | | | 5 R | |
| AIR/CO2 (0 93) | | | | 2600 R |
| AIR/CO2 (1 63) | | | | |
| AIR/CO2 (1 77) | | | | |
| AIR/CO2/HCL (1 72) | | | | 8500 R |
| TRICHLOROFLUOROMETHANE (1.72) | | | 11 J | |

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 2 GROUNDWATER RESULTS

## Semivolatile Compounds

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S260 | S277 | S277RE | S265 | S258 | S295 |
| Remarks | | | | Reanalysis | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 1 J | 6 J | 21 | 2 J | | 400 J |
| bis(2-Chloroethyl)ether | 10 | | R | UJ | | | R |
| 2-Chlorophenol | 10 | | UJ | | | | 13 |
| 1,3-Dichlorobenzene | 10 | | R | UJ | | | 3 J |
| 1,4-Dichlorobenzene | 10 | | R | UJ | | | 68 J |
| 1,2-Dichlorobenzene | 10 | | R | UJ | 10 U | | 1500 J |
| 2-Methylphenol | 10 | | UJ | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | R | UJ | | | R |
| 4-Methylphenol | 10 | | UJ | 1 J | | | |
| N-Nitroso-di-n-Propylamine | 10 | | R | UJ | | | R |
| Hexachloroethane | 10 | | R | UJ | | | R |
| Nitrobenzene | 10 | | R | UJ | | | R |
| Isophorone | 10 | | R | UJ | | | R |
| 2-Nitrophenol | 10 | | UJ | | | | |
| 2,4-Dimethylphenol | 10 | | UJ | 1 J | | | |
| bis(2-Chloroethoxy)methane | 10 | | R | UJ | | | R |
| 2,4-Dichlorophenol | 10 | | UJ | | | | 38 |
| 1,2,4-Trichlorobenzene | 10 | | R | UJ | | | R |
| Naphthalene | 10 | | R | 1 J | | | R |
| 4-Chloroaniline | 10 | | R | UJ | | | R |
| Hexachlorobutadiene | 10 | | R | UJ | | | R |
| 4-Chloro-3-Methylphenol | 10 | | UJ | | | | |
| 2-Methylnaphthalene | 10 | | R | 2 J | | | R |
| Hexachlorocyclopentadiene | 10 | | R | UJ | | | R |
| 2,4,6-Trichlorophenol | 10 | | UJ | | | | |
| 2,4,5-Trichlorophenol | 25 | | UJ | | | | |
| 2-Chloronaphthalene | 10 | | R | UJ | | | R |
| 2-Nitroaniline | 25 | | R | UJ | | | 4 J |
| Dimethylphthalate | 10 | | R | UJ | | | R |
| Acenaphthylene | 10 | | R | UJ | | | R |
| 3-Nitroaniline | 25 | | R | UJ | | | 7 J |
| Acenaphthene | 10 | | R | UJ | | | R |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | | UJ | UJ | | | UJ |
| Dibenzofuran | 10 | | R | UJ | | | R |
| 2,4-Dinitrotoluene | 10 | | R | UJ | | | R |
| 2,6-Dinitrotoluene | 10 | | R | UJ | | | R |
| Diethylphthalate | 10 | | R | UJ | | | R |
| 4-Chlorophenylphenylether | 10 | | R | UJ | | | R |
| Fluorene | 10 | | R | UJ | | | R |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S260 | S277 | S277RE | S265 | S258 | S295 |
| Remarks | | | | Reanalysis | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | R | W | | | R |
| 4,6-Dinitro-2-Methylphenol | 25 | W | W | | W | W | |
| N-Nitrosodiphenylamine | 10 | | R | W | | | R |
| 4-Bromophenylphenylether | 10 | | R | W | | | R |
| Hexachlorobenzene | 10 | | R | W | | | R |
| Pentachlorophenol | 25 | | W | W | | | |
| Phenanthrene | 10 | | R | 1 J | | | R |
| Anthracene | 10 | | R | W | | | R |
| Carbazole | 10 | | R | W | | | R |
| Di-n-Butylphthalate | 10 | | R | W | | | R |
| Fluoranthene | 10 | | R | W | | | R |
| Pyrene | 10 | | R | W | | | R |
| Butylbenzylphthalate | 10 | | R | W | | | R |
| 3,3'-Dichlorobenzidine | 10 | W | R | W | W | W | R |
| Benzo(a)anthracene | 10 | | R | W | | | R |
| bis(2-Ethylhexyl)phthalate | 10 | | 10 U | 10 U | | | R |
| Chrysene | 10 | | R | W | | | R |
| Di-n-Octylphthalate | 10 | | R | W | | | R |
| Benzo(b)fluoranthene | 10 | | R | W | | | R |
| Benzo(k)fluoranthene | 10 | | R | W | | | R |
| Benzo(a)pyrene | 10 | | R | W | | | R |
| Indeno(1,2,3-cd)pyrene | 10 | | R | W | | | R |
| Dibenz(a,h)anthracene | 10 | | R | W | | | R |
| Benzo(g,h,i)perylene | 10 | | R | W | | | R |
| 3,4-Dichloronitrobenzene | 25 | | R | W | | | R |
| Diphenylsulfone | 10 | | R | 10 U | | | 520 J |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/16/93 | 02/22/93 | 02/22/93 | 02/16/93 | 02/16/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/23/93 | 02/23/93 | 02/18/93 | 02/17/93 | 02/25/93 |
| Date Sample Extracted | | 02/22/93 | 02/24/93 | 02/24/93 | 02/22/93 | 02/22/93 | 02/26/93 |
| Date of Sample Analysis | | 03/15/93 | 03/16/93 | 03/30/93 | 03/15/93 | 03/14/93 | 03/22/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S6DL | RNS-GW-S6-111 | RNS-GW-S7 | RNS-GW-S8 | RNS-GW-S8DL | RNS-GW-S9 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S295DL | S297 | S283 | S291 | S291DL | S250 |
| Remarks | | Dilution | Field Blank | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 300 J | | 1 J | 1 J | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | 1 J | 3 J | | |
| 1,2-Dichlorobenzene | 10 | 9800 | 13 | 76 | 340 J | 630 | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | 4 J | 13 | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | UJ |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S6DL | RNS-GW-S6-111 | RNS-GW-S7 | RNS-GW-S8 | RNS-GW-S8DL | RNS-GW-S9 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S295DL | S297 | S283 | S291 | S291DL | S250 |
| Remarks | | Dilution | Field Blank | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 2500 U | | 10 U | | | |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 2500 U | 1 J | 43 | 10 U | | |
| Quantitation Limit Multiplier | | 250 | 1 | 1 | 1 | 10 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/16/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/17/93 |
| Date Sample Extracted | | 02/26/93 | 02/26/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/17/93 |
| Date of Sample Analysis | | 04/01/93 | 03/22/93 | 03/18/93 | 03/18/93 | 03/23/93 | 03/12/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S10 | RNS-GW-S11 | RNS-GW-S11DL | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S21 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S253 | S254 | S254DL | S288RE | S288DL | S289 |
| Remarks | | | | Dilution | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | Duplicate of RNS-GW- |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | 1 J | | 180 J | 200 | 270 J |
| bis(2-Chloroethyl)ether | 10 | | | | | | UJ |
| 2-Chlorophenol | 10 | | | | 6 J | 6 J | 12 J |
| 1,3-Dichlorobenzene | 10 | | | | | | UJ |
| 1,4-Dichlorobenzene | 10 | | | | | | UJ |
| 1,2-Dichlorobenzene | 10 | | 10 U | | 55 U | 56 U | 110 U |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | UJ |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | UJ |
| Hexachloroethane | 10 | | | | | | UJ |
| Nitrobenzene | 10 | | | | | | UJ |
| Isophorone | 10 | | | | | | UJ |
| 2-Nitrophenol | 10 | | | | | | 3 J |
| 2,4-Dimethylphenol | 10 | | | | 3 J | 3 J | 5 J |
| bis(2-Chloroethoxy)methane | 10 | | | | | | UJ |
| 2,4-Dichlorophenol | 10 | | | | 210 J | 220 | 440 J |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | 97 J |
| 4-Chloroaniline | 10 | | | | | | UJ |
| Hexachlorobutadiene | 10 | | | | | | UJ |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | UJ |
| Hexachlorocyclopentadiene | 10 | | | | | | UJ |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | UJ |
| 2-Nitroaniline | 25 | | | | | | 16 J |
| Dimethylphthalate | 10 | | | | | | UJ |
| Acenaphthylene | 10 | | | | | | UJ |
| 3-Nitroaniline | 25 | UJ | UJ | | | | UJ |
| Acenaphthene | 10 | | | | | | UJ |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | | | UJ | UJ | UJ | UJ |
| Dibenzofuran | 10 | | | | | | UJ |
| 2,4-Dinitrotoluene | 10 | | | | | | UJ |
| 2,6-Dinitrotoluene | 10 | | | | 79 | | UJ |
| Diethylphthalate | 10 | | | | | | UJ |
| 4-Chlorophenylphenylether | 10 | | | | | | UJ |
| Fluorene | 10 | | | | | | UJ |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S10 | RNS-GW-S11 | RNS-GW-S11DL | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S21 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S253 | S254 | S254DL | S288RE | S288DL | S289 |
| Remarks | | | | Dilution | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | Duplicate of RNS-GW- |
| 4-Nitroaniline | 25 | | | | | | W |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | W |
| 4-Bromophenylphenylether | 10 | | | | | | W |
| Hexachlorobenzene | 10 | | | | | | W |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | W |
| Anthracene | 10 | | | | | | W |
| Carbazole | 10 | | | | | | W |
| Di-n-Butylphthalate | 10 | | | | | | W |
| Fluoranthene | 10 | | | | | | W |
| Pyrene | 10 | | | | | | W |
| Butylbenzylphthalate | 10 | | | | | | W |
| 3,3'-Dichlorobenzidine | 10 | W | W | W | | | W |
| Benzo(a)anthracene | 10 | | | | | | W |
| bis(2-Ethylhexyl)phthalate | 10 | | | | 20 U | | 20 U |
| Chrysene | 10 | | | | | | W |
| Di-n-Octylphthalate | 10 | | | | | | W |
| Benzo(b)fluoranthene | 10 | | | | | | W |
| Benzo(k)fluoranthene | 10 | | | | | | W |
| Benzo(a)pyrene | 10 | | | | | | W |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | W |
| Dibenz(a,h)anthracene | 10 | | | | | | W |
| Benzo(g,h,i)perylene | 10 | | | | | | W |
| 3,4-Dichloronitrobenzene | 25 | | | | | | W |
| Diphenylsulfone | 10 | | 350 J | 360 | 20 U | 40 U | W |
| Quantitation Limit Multiplier | | 1 | 1 | 10 | 2 | 4 | 2 |
| Date of Sample Collection | | 02/16/93 | 02/16/93 | 02/16/93 | 02/23/93 | 02/23/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date of Sample Analysis | | 03/12/93 | 03/13/93 | 03/22/93 | 04/05/93 | 04/05/93 | 04/05/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S21RE | RNS-GW-S21DL | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S14 | RNS-GW-S15 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S289RE | S289DL | S278 | S278DL | S269 | S279 |
| Remarks | | Reanalysis | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | Duplicate of RNS-GW- | Duplicate of RNS-GW- | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 270 J | 160 | 2 J | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | 12 J | 6 J | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | 1 J | | | |
| 1,2-Dichlorobenzene | 10 | 110 U | 57 U | 180 J | 240 | 10 U | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | 7 J | 3 J | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | 440 J | 240 | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | 91 J | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | W |
| 4-Nitrophenol | 25 | W | W | | W | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S21RE | RNS-GW-S21DL | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S14 | RNS-GW-S15 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S289RE | S289DL | S278 | S278DL | S269 | S279 |
| Remarks | | Reanalysis | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | Duplicate of RNS-GW- | Duplicate of RNS-GW- | | | | |
| 4-Nitroaniline | 25 | | | | UJ | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | UJ | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 20 U | | | | | 10 U |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | UJ | | | | | |
| Benzo(b)fluoranthene | 10 | UJ | | | | | |
| Benzo(k)fluoranthene | 10 | UJ | | | | | |
| Benzo(a)pyrene | 10 | UJ | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | UJ | | | | | |
| Dibenz(a,h)anthracene | 10 | UJ | | | | | |
| Benzo(g,h,i)perylene | 10 | UJ | | | | | |
| 3,4-Dichloronitrobenzene | 25 | UJ | | | | | |
| Diphenylsulfone | 10 | UJ | | 72 | 54 | | |
| Quantitation Limit Multiplier | | 2 | 4 | 1 | 4 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 02/23/93 | 02/22/93 | 02/22/93 | 02/17/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 02/24/93 | 02/23/93 | 02/23/93 | 02/18/93 | 02/23/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/22/93 | 02/24/93 |
| Date of Sample Analysis | | 04/05/93 | 04/05/93 | 03/16/93 | 03/19/93 | 03/16/93 | 03/16/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S16 | RNS-GW-S17 | RNS-GW-S20 | RNS-GW-S20DL | RNS-GW-S18 | RNS-GW-S18RE |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S263 | S272RE | S273 | S273DL | S294 | S294RE |
| Remarks | | | | Dup-S17 | Dilution | | Reanalysis |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 3 J | 1 J | 1 J | | 150 | 150 |
| bis(2-Chloroethyl)ether | 10 | | R | | | | W |
| 2-Chlorophenol | 10 | | R | | | | |
| 1,3-Dichlorobenzene | 10 | | R | | | | W |
| 1,4-Dichlorobenzene | 10 | | 5 J | 6 J | | 290 J | 280 J |
| 1,2-Dichlorobenzene | 10 | | 430 J | 420 J | 1100 | 3900 J | 3700 J |
| 2-Methylphenol | 10 | | R | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | R | | | | W |
| 4-Methylphenol | 10 | | R | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | R | | | R | R |
| Hexachloroethane | 10 | | R | | | 51 | 53 J |
| Nitrobenzene | 10 | | R | | | | W |
| Isophorone | 10 | | R | | | | W |
| 2-Nitrophenol | 10 | | R | | | | 1 J |
| 2,4-Dimethylphenol | 10 | | R | | | 1 J | |
| bis(2-Chloroethoxy)methane | 10 | | R | | | | W |
| 2,4-Dichlorophenol | 10 | | R | | | 670 J | 670 J |
| 1,2,4-Trichlorobenzene | 10 | | R | | | W | W |
| Naphthalene | 10 | | R | 1 J | | | W |
| 4-Chloroaniline | 10 | | R | | | | W |
| Hexachlorobutadiene | 10 | | R | | | | W |
| 4-Chloro-3-Methylphenol | 10 | | R | | | W | W |
| 2-Methylnaphthalene | 10 | | R | | | | W |
| Hexachlorocyclopentadiene | 10 | | R | | | W | W |
| 2,4,6-Trichlorophenol | 10 | | R | | | | |
| 2,4,5-Trichlorophenol | 25 | | R | | | | |
| 2-Chloronaphthalene | 10 | | R | | | | W |
| 2-Nitroaniline | 25 | | R | | | | W |
| Dimethylphthalate | 10 | | R | | | | W |
| Acenaphthylene | 10 | | R | | | | W |
| 3-Nitroaniline | 25 | | R | | | | W |
| Acenaphthene | 10 | | R | | | 6 J | 4 J |
| 2,4-Dinitrophenol | 25 | W | R | W | W | W | W |
| 4-Nitrophenol | 25 | | R | | W | W | W |
| Dibenzofuran | 10 | | R | | | | W |
| 2,4-Dinitrotoluene | 10 | | R | | | | W |
| 2,6-Dinitrotoluene | 10 | | R | | | | W |
| Diethylphthalate | 10 | | R | | | | W |
| 4-Chlorophenylphenylether | 10 | | R | | | | W |
| Fluorene | 10 | | R | | | | W |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S16 | RNS-GW-S17 | RNS-GW-S20 | RNS-GW-S20DL | RNS-GW-S18 | RNS-GW-S18RE |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S263 | S272RE | S273 | S273DL | S294 | S294RE |
| Remarks | | | | Dup-S17 | Dilution | | Reanalysis |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | R | | W | W | W |
| 4,6-Dinitro-2-Methylphenol | 25 | W | R | W | | | |
| N-Nitrosodiphenylamine | 10 | | R | | | | W |
| 4-Bromophenylphenylether | 10 | | R | | | | W |
| Hexachlorobenzene | 10 | | R | | | | W |
| Pentachlorophenol | 25 | | R | | | | |
| Phenanthrene | 10 | | R | | | | W |
| Anthracene | 10 | | R | | | | W |
| Carbazole | 10 | | R | | | 36 | 34 J |
| Di-n-Butylphthalate | 10 | | R | | | | W |
| Fluoranthene | 10 | | R | | | | W |
| Pyrene | 10 | | R | | | W | W |
| Butylbenzylphthalate | 10 | | R | | | W | W |
| 3,3'-Dichlorobenzidine | 10 | W | R | W | W | W | W |
| Benzo(a)anthracene | 10 | | R | | | W | W |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | R | 10 U | | W | W |
| Chrysene | 10 | | R | | | W | W |
| Di-n-Octylphthalate | 10 | | R | | | R | W |
| Benzo(b)fluoranthene | 10 | | R | | | R | W |
| Benzo(k)fluoranthene | 10 | | R | | | R | W |
| Benzo(a)pyrene | 10 | | R | | | R | W |
| Indeno(1,2,3-cd)pyrene | 10 | | R | | | R | W |
| Dibenz(a,h)anthracene | 10 | | R | | | R | W |
| Benzo(g,h,i)perylene | 10 | | R | | | R | W |
| 3,4-Dichloronitrobenzene | 25 | | R | | | R | W |
| Diphenylsulfone | 10 | | 480 J | 410 J | 620 | 3500 J | 3800 J |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 20 | 1 | 1 |
| Date of Sample Collection | | 02/17/93 | 02/22/93 | 02/22/93 | 02/22/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/18/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 02/22/93 | 03/16/93 | 02/24/93 | 02/24/93 | 02/26/93 | 02/26/93 |
| Date of Sample Analysis | | 03/15/93 | 03/23/93 | 03/16/93 | 03/19/93 | 04/06/93 | 04/06/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S18DL | RNS-GW-D1 | RNS-GW-D1-110 | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW-D3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S294DL | S251 | S252 | S290 | S290DL | S261 |
| Remarks | | Dilution | | Field Blank | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | | | 1 J | | 1 J |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | 300 J | | | 1 J | | |
| 1,2-Dichlorobenzene | 10 | 36000 | | | 140 J | 160 | 10 |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | W | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | W | W | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | W |
| 4-Nitrophenol | 25 | W | | | W | W | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S18DL | RNS-GW-D1 | RNS-GW-D1-110 | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW-D3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S294DL | S251 | S252 | S290 | S290DL | S261 |
| Remarks | | Dilution | | Field Blank | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | UJ | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | UJ |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | | | 10 U | | 10 U |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 9100 | 3 J | | 280 J | 280 J | 20 |
| Quantitation Limit Multiplier | | 500 | 1 | 1 | 1 | 10 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/16/93 | 02/16/93 | 02/23/93 | 02/23/93 | 02/16/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/24/93 | 02/17/93 |
| Date Sample Extracted | | 02/26/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/24/93 | 02/22/93 |
| Date of Sample Analysis | | 04/06/93 | 03/12/93 | 03/12/93 | 03/18/93 | 03/22/93 | 03/15/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D4 | RNS-GW-D5 | RNS-GW-D18 | RNS-GW-D6 | RNS-GW-D6RE | RNS-GW-D6DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S259 | S256 | S257 | S296 | S296RE | S296DL |
| Remarks | | | | Duplicate of RNS- | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 1 J | | | 8 J | 8 J | 6 J |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | 5 J | 5 J | |
| 1,2-Dichlorobenzene | 10 | | 10 U | | 380 J | 410 J | 720 |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | 1 J | 1 J | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | 2 J | 2 J | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | | | | UJ | UJ | UJ |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D4 | RNS-GW-D5 | RNS-GW-D18 | RNS-GW-D6 | RNS-GW-D6RE | RNS-GW-D6DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S259 | S256 | S257 | S296 | S296RE | S296DL |
| Remarks | | | | Duplicate of RNS- | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | W | | W | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3 3'-Dichlorobenzidine | 10 | W | W | W | W | | |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 10 U | | 10 U | |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | W | W | |
| Benzo(b)fluoranthene | 10 | | | | W | W | |
| Benzo(k)fluoranthene | 10 | | | | W | W | |
| Benzo(a)pyrene | 10 | | | | W | W | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | W | W | |
| Dibenz(a,h)anthracene | 10 | | | | W | W | |
| Benzo(g,h,i)perylene | 10 | | | | W | W | |
| 3,4-Dichloronitrobenzene | 25 | | | | W | W | |
| Diphenylsulfone | 10 | | | | 170 J | 170 J | 150 |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 10 |
| Date of Sample Collection | | 02/16/93 | 02/16/93 | 02/16/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/17/93 | 02/17/93 | 02/25/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 02/22/93 | 02/22/93 | 02/22/93 | 02/26/93 | 02/26/93 | 02/26/93 |
| Date of Sample Analysis | | 03/14/93 | 03/13/93 | 03/14/93 | 03/22/93 | 04/01/93 | 04/05/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D7 | RNS-GW-D7DL | RNS-GW-D8 | RNS-GW-D8DL | RNS-GW-D9 | RNS-GW-D10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S266 | S266DL | S274 | S274DL | S264 | S232 |
| Remarks | | | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 1 J | | 2 J | | 1 J | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | 3 J | | | |
| 1,2-Dichlorobenzene | 10 | 93 | 110 | 330 J | 660 | 10 U | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | W | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | W |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | |
| 4-Nitrophenol | 25 | | W | | W | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| FRM-Midwest Sample Number | | RNS-GW-D7 | RNS-GW-D7DL | RNS-GW-D8 | RNS-GW-D8DL | RNS-GW-D9 | RNS-GW-D10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S266 | S266DL | S274 | S274DL | S264 | S232 |
| Remarks | | | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | W | | W | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | W | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | W | W | W | W | W | W |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | | 10 U | | | |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 98 J | 100 | 370 J | 560 | | |
| Quantitation Limit Multiplier | | 1 | 2 | 1 | 10 | 1 | 1 |
| Date of Sample Collection | | 02/17/93 | 02/17/93 | 02/22/93 | 02/22/93 | 02/17/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/18/93 | 02/18/93 | 02/23/93 | 02/23/93 | 02/18/93 | 02/11/93 |
| Date Sample Extracted | | 02/22/93 | 02/22/93 | 02/24/93 | 02/24/93 | 02/22/93 | 02/12/93 |
| Date of Sample Analysis | | 03/13/93 | 03/19/93 | 03/16/93 | 03/19/93 | 03/13/93 | 03/11/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-D13 | RNS-GW-D14 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S284 | S284DL | S287 | S287DL | S285 | S280 |
| Remarks | | | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 11 | | 5 J | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | 3 J | | 210 J | | | |
| 1,2-Dichlorobenzene | 10 | 210 J | 310 J | 2100 J | 28000 | 10 U | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | 1 J | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | 3 J | | | | | |
| Hexachloroethane | 10 | 19 | | 190 J | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | 11 | | 14 | | | |
| 1,2,4-Trichlorobenzene | 10 | | | 14 | | | |
| Naphthalene | 10 | | | 16 | | | |
| 4-Chloroaniline | 10 | | W | | | | |
| Hexachlorobutadiene | 10 | 8 J | | 36 | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | 1 J | | 2 J | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | 14 | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | W |
| 4-Nitrophenol | 25 | | W | | W | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-D13 | RNS-GW-D14 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S284 | S284DL | S287 | S287DL | S285 | S280 |
| Remarks | | | Dilution | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | W | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | W | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | 1 J | | 10 | | | |
| Pentachlorophenol | 25 | | W | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | 3 J |
| 3,3'-Dichlorobenzidine | 10 | W | | W | W | W | W |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 10 U | | 14 | 90 J |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 1400 J | 3700 | 2700 J | 14000 | | |
| Quantitation Limit Multiplier | | 1 | 100 | 1 | 500 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/23/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date of Sample Analysis | | 03/17/93 | 03/30/93 | 03/17/93 | 03/19/93 | 03/17/93 | 03/17/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW-D19DL | RNS-GW-D15 | RNS-GW-D15DL | RNS-GW-D16 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S280DL | S281 | S281DL | S276 | S276DL | S227 |
| Remarks | | Dilution | | Dilution | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | Duplicate of RNS-GW- | Duplicate of RNS-GW- | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | | | 2 J | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | 1 J | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | 3 J | | |
| 1,2-Dichlorobenzene | 10 | | | | 470 J | 940 | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | 4 J | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | 1 J | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | 8 J | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | W |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | |
| 4-Nitrophenol | 25 | W | W | W | | W | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW-D19DL | RNS-GW-D15 | RNS-GW-D15DL | RNS-GW-D16 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S280DL | S281 | S281DL | S276 | S276DL | S227 |
| Remarks | | Dilution | | Dilution | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | Duplicate of RNS-GW- | Duplicate of RNS-GW- | | | |
| 4-Nitroaniline | 25 | W | | | | W | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | 2 J | 6 J | 5 J | | | |
| 3,3'-Dichlorobenzidine | 10 | W | W | W | W | W | W |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 98 J | 180 J | 250 J | 10 U | | 4 J |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | | | | 880 J | 1500 | |
| Quantitation Limit Multiplier | | 2 | 1 | 4 | 1 | 50 | 1 |
| Date of Sample Collection | | 02/22/93 | 02/22/93 | 02/22/93 | 02/22/93 | 02/22/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/11/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/12/93 |
| Date of Sample Analysis | | 03/19/93 | 03/18/93 | 03/22/93 | 03/18/93 | 03/19/93 | 03/10/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D17 | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | RNS-GW-T2RE | RNS-GW-T2DL |
|---|---|---|---|---|---|---|---|
| *Laboratory Sample Number* | | S275 | S292 | S292DL | S293 | S293RE | S293DL |
| Remarks | | | | Dilution | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 1 J | 8 J | | 15 | 12 | |
| bis(2-Chloroethyl)ether | 10 | | W | | 1 J | 1 J | |
| 2-Chlorophenol | 10 | | 1 J | | 1 J | | |
| 1,3-Dichlorobenzene | 10 | | 1 J | | 3 J | 3 J | |
| 1,4-Dichlorobenzene | 10 | | 17 J | | 40 J | 41 | |
| 1,2-Dichlorobenzene | 10 | 73 | 760 J | 2700 | 1400 J | 1400 J | 8000 |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | W | | W | | |
| 4-Methylphenol | 10 | | 10 | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | W | | W | | |
| Hexachloroethane | 10 | | W | | 240 J | 230 J | 300 J |
| Nitrobenzene | 10 | | W | | W | | |
| Isophorone | 10 | | W | | W | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | W | | W | | |
| 2,4-Dichlorophenol | 10 | | 1 J | | 43 | 47 | |
| 1,2,4-Trichlorobenzene | 10 | | W | | 3 J | 3 J | |
| Naphthalene | 10 | | W | | 14 J | 14 | |
| 4-Chloroaniline | 10 | | W | W | 1 J | 2 J | W |
| Hexachlorobutadiene | 10 | | W | | 42 J | 42 | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | W | | W | | |
| Hexachlorocyclopentadiene | 10 | | W | | W | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | W | | W | | |
| 2-Nitroaniline | 25 | | 7 J | | W | | |
| Dimethylphthalate | 10 | | W | | W | | |
| Acenaphthylene | 10 | | W | | W | | |
| 3-Nitroaniline | 25 | | W | | W | | |
| Acenaphthene | 10 | | W | | W | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | W |
| 4-Nitrophenol | 25 | | W | W | W | W | W |
| Dibenzofuran | 10 | | W | | W | | |
| 2,4-Dinitrotoluene | 10 | | W | | W | | |
| 2,6-Dinitrotoluene | 10 | | W | | W | | |
| Diethylphthalate | 10 | | W | | W | | |
| 4-Chlorophenylphenylether | 10 | | W | | W | | |
| Fluorene | 10 | | W | | W | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D17 | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | RNS-GW-T2RE | RNS-GW-T2DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S275 | S292 | S292DL | S293 | S293RE | S293DL |
| Remarks | | | | Dilution | | Reanalysis | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | U | | U | | |
| 4,6-Dinitro-2-Methylphenol | 25 | U | | | | | |
| N-Nitrosodiphenylamine | 10 | | U | | U | | |
| 4-Bromophenylphenylether | 10 | | U | | U | | |
| Hexachlorobenzene | 10 | | U | | 5 J | 5 J | |
| Pentachlorophenol | 25 | | | U | | | U |
| Phenanthrene | 10 | | U | | U | | |
| Anthracene | 10 | | U | | U | | |
| Carbazole | 10 | | U | | U | | |
| Di-n-Butylphthalate | 10 | | U | | U | | |
| Fluoranthene | 10 | | U | | U | | |
| Pyrene | 10 | | U | | U | | |
| Butylbenzylphthalate | 10 | | U | | 1 J | 1 J | |
| 3 3'-Dichlorobenzidine | 10 | U | U | | U | U | |
| Benzo(a)anthracene | 10 | | U | | U | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | | U | | |
| Chrysene | 10 | | U | | U | | |
| Di-n-Octylphthalate | 10 | | U | | 6 J | 6 J | |
| Benzo(b)fluoranthene | 10 | | U | | U | U | |
| Benzo(k)fluoranthene | 10 | | U | | U | U | |
| Benzo(a)pyrene | 10 | | U | | U | U | |
| Indeno(1,2,3-cd)pyrene | 10 | | U | | U | U | |
| Dibenz(a,h)anthracene | 10 | | U | | U | U | |
| Benzo(g,h,i)perylene | 10 | | U | | U | U | |
| 3,4-Dichloronitrobenzene | 25 | | U | | U | U | |
| Diphenylsulfone | 10 | 64 | 56 J | 47 J | 2100 J | 2100 J | 11000 |
| Quantitation Limit Multiplier | | 1 | 1 | 40 | 1 | 1 | 250 |
| Date of Sample Collection | | 02/22/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 02/24/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 |
| Date of Sample Analysis | | 03/16/93 | 03/18/93 | 03/30/93 | 03/18/93 | 03/22/93 | 03/30/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-RW1 | RNS-GW-RW1DL | RNS-GW-S22 | RNS-GW-S22DL | RNS-GW-RW1-11 | RNS-GW-AS |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S304 | S304DL | S305 | S305DL | S306 | S235 |
| Remarks | | | Dilution | Duplicate of RNS- | Duplicate of RNS- | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | Dilution | | |
| Phenol | 10 | 7 J | | 6 J | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | 6 J | | 6 J | | | |
| 1,4-Dichlorobenzene | 10 | 110 J | | 92 J | | | |
| 1,2-Dichlorobenzene | 10 | 2300 J | 16000 | 2100 J | 14000 | 3 J | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | 340 J | 410 J | 320 J | 410 J | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | 15 | | 12 | | | |
| 1,2,4-Trichlorobenzene | 10 | 5 J | | 5 J | | | |
| Naphthalene | 10 | 7 J | | 6 J | | | |
| 4-Chloroaniline | 10 | W | | W | | W | |
| Hexachlorobutadiene | 10 | 32 | | 31 | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | 6 J | | 6 J | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | 10 J | | 8 J | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | | | | W |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | W | W | W | W | W | |
| 4-Nitrophenol | 25 | W | W | W | W | W | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-RW1 | RNS-GW-RW1DL | RNS-GW-S22 | RNS-GW-S22DL | RNS-GW-RW1-11 | RNS-GW-AS |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S304 | S304DL | S305 | S305DL | S306 | S235 |
| Remarks | | | Dilution | Duplicate of RNS- | Duplicate of RNS- | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | Dilution | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | 7 J | | 8 J | | | |
| Pentachlorophenol | 25 | UJ | | UJ | | UJ | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | | | | | | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | | | | | 1 J |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 2900 J | 7400 | 2800 J | 7600 | | |
| Quantitation Limit Multiplier | | 1 | 500 | 1 | 500 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/16/93 |
| Date Sample Extracted | | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/17/93 |
| Date of Sample Analysis | | 03/30/93 | 04/01/93 | 03/30/93 | 04/01/93 | 03/30/93 | 03/11/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-B-S | RNS-GW-B-SDL | RNS-GW-CS | RNS-GW-CUB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S236 | S237 | S247 | S247DL | S200 | S201 |
| Remarks | | | Duplicate of RNS- | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | | 2 J | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | 1 J | | | |
| 1,3-Dichlorobenzene | 10 | | | 1 J | | | |
| 1,4-Dichlorobenzene | 10 | | | 15 | 13 J | | |
| 1,2-Dichlorobenzene | 10 | | | 350 J | 670 | | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | 1 J | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | | | UJ | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | UJ | UJ | UJ | UJ | | |
| 4-Nitrophenol | 25 | | | | UJ | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-B-S | RNS-GW-B-SDL | RNS-GW-CS | RNS-GW-CUB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S236 | S237 | S247 | S247DL | S200 | S201 |
| Remarks | | | Duplicate of RNS- | | Dilution | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | | | | 10 U | 10 U |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | 1 J | 1 J | 23 | 16 J | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 10 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/15/93 | 02/15/93 | 02/08/93 | 02/08/93 |
| Date Sample Received by Laboratory | | 02/16/93 | 02/16/93 | 02/16/93 | 02/16/93 | 02/10/93 | 02/10/93 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/11/93 | 02/11/93 |
| Date of Sample Analysis | | 03/11/93 | 03/11/93 | 03/12/93 | 03/16/93 | 03/05/93 | 03/05/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-C-LB | RNS-GW-DVF2 | RNS-GW-DVF3 | RNS-GW-DLBA | RNS-GW-EVF1 | RNS-GW-EVF2R |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S221 | S202RE | S203 | S221 | S211 | S307 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | 10 U | R | | | | UJ |
| bis(2-Chloroethyl)ether | 10 | | R | | | | UJ |
| 2-Chlorophenol | 10 | | R | | | | UJ |
| 1,3-Dichlorobenzene | 10 | | R | | | | UJ |
| 1,4-Dichlorobenzene | 10 | | R | | | | UJ |
| 1,2-Dichlorobenzene | 10 | | R | | | | UJ |
| 2-Methylphenol | 10 | | R | | | | UJ |
| 2,2-Oxybis(1-Chloropropane) | 10 | | R | | | | UJ |
| 4-Methylphenol | 10 | | R | | | | UJ |
| N-Nitroso-di-n-Propylamine | 10 | | R | | | | UJ |
| Hexachloroethane | 10 | | R | | | | UJ |
| Nitrobenzene | 10 | | R | | | | UJ |
| Isophorone | 10 | | R | | | | UJ |
| 2-Nitrophenol | 10 | | R | | | | UJ |
| 2,4-Dimethylphenol | 10 | | R | | | | UJ |
| Bis(2-Chloroethoxy)methane | 10 | | R | | | | UJ |
| 2,4-Dichlorophenol | 10 | | R | | | | UJ |
| 1,2,4-Trichlorobenzene | 10 | | R | | | | UJ |
| Naphthalene | 10 | | R | | | | UJ |
| 4-Chloroaniline | 10 | | R | | | | UJ |
| Hexachlorobutadiene | 10 | | R | | | | UJ |
| 4-Chloro-3-Methylphenol | 10 | | R | | | | UJ |
| 2-Methylnaphthalene | 10 | | R | | | | UJ |
| Hexachlorocyclopentadiene | 10 | | R | | | | UJ |
| 2,4,6-Trichlorophenol | 10 | | R | | | | UJ |
| 2,4,5-Trichlorophenol | 25 | | R | | | | UJ |
| 2-Chloronaphthalene | 10 | | R | | | | UJ |
| 2-Nitroaniline | 25 | | R | | | | UJ |
| Dimethylphthalate | 10 | | R | | | | UJ |
| Acenaphthylene | 10 | | R | | | | UJ |
| 3-Nitroaniline | 25 | UJ | R | | | | UJ |
| Acenaphthene | 10 | | R | | | | UJ |
| 2,4-Dinitrophenol | 25 | | R | | UJ | UJ | UJ |
| 4-Nitrophenol | 25 | | R | | | | UJ |
| Dibenzofuran | 10 | | R | | | | UJ |
| 2,4-Dinitrotoluene | 10 | | R | | | | UJ |
| 2,6-Dinitrotoluene | 10 | | R | | | | UJ |
| Diethylphthalate | 10 | | R | | 1 J | | UJ |
| 4-Chlorophenylphenylether | 10 | | R | | | | UJ |
| Fluorene | 10 | | R | | | | UJ |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-C-LB | RNS-GW-DVF2 | RNS-GW-DVF3 | RNS-GW-DLBA | RNS-GW-EVF1 | RNS-GW-EVF2R |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S221 | S202RE | S203 | S221 | S211 | S307 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | R | | | | W |
| 4,6-Dinitro-2-Methylphenol | 25 | | R | | | | W |
| N-Nitrosodiphenylamine | 10 | | R | | | | W |
| 4-Bromophenylphenylether | 10 | | R | | | | W |
| Hexachlorobenzene | 10 | | R | | | | W |
| Pentachlorophenol | 25 | | R | | | | W |
| Phenanthrene | 10 | | R | | | | W |
| Anthracene | 10 | | R | | | | W |
| Carbazole | 10 | | R | | | W | W |
| Di-n-Butylphthalate | 10 | | R | | 1 J | | W |
| Fluoranthene | 10 | | R | | | | W |
| Pyrene | 10 | | R | | 1 J | | W |
| Butylbenzylphthalate | 10 | | R | | | | W |
| 3 3'-Dichlorobenzidine | 10 | W | R | W | W | W | W |
| Benzo(a)anthracene | 10 | | R | | | | W |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | R | W | 8 J | 10 U | 10 U |
| Chrysene | 10 | | R | | | | W |
| Di-n-Octylphthalate | 10 | | R | | | | W |
| Benzo(b)fluoranthene | 10 | | R | | | | W |
| Benzo(k)fluoranthene | 10 | | R | | | | W |
| Benzo(a)pyrene | 10 | | R | | | | W |
| Indeno(1,2,3-cd)pyrene | 10 | | R | | | | W |
| Dibenz(a,h)anthracene | 10 | | R | | | | W |
| Benzo(g,h,i)perylene | 10 | | R | | | | W |
| 3,4-Dichloronitrobenzene | 25 | | R | | | | W |
| Diphenylsulfone | 10 | 1 J | R | | 4 J | | W |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/10/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 03/15/93 |
| Date Sample Received by Laboratory | | 02/11/93 | 02/10/93 | 02/10/93 | 02/10/93 | 02/10/93 | 03/17/93 |
| Date Sample Extracted | | 02/12/93 | 03/08/93 | 02/11/93 | 02/12/93 | 02/11/93 | 03/22/93 |
| Date of Sample Analysis | | 03/09/93 | 03/09/93 | 03/05/93 | 03/11/93 | 03/06/93 | 03/23/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-EVF3 | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW-ELB | RNS-GW-FVF3 | RNS-GW-FVF3-10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S213RE | S217 | S214 | S218 | S228 | S233 |
| Remarks | | | Duplicate of RNS- | | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | R | | | | | |
| bis(2-Chloroethyl)ether | 10 | R | | | | | |
| 2-Chlorophenol | 10 | R | | | | | |
| 1,3-Dichlorobenzene | 10 | R | | | | | |
| 1,4-Dichlorobenzene | 10 | R | | | | | |
| 1,2-Dichlorobenzene | 10 | R | | | | | |
| 2-Methylphenol | 10 | R | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | R | | | | | |
| 4-Methylphenol | 10 | R | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | R | | | | | |
| Hexachloroethane | 10 | R | | | | | |
| Nitrobenzene | 10 | R | | | | | |
| Isophorone | 10 | R | | | | | |
| 2-Nitrophenol | 10 | R | | | | | |
| 2,4-Dimethylphenol | 10 | R | | | | | |
| bis(2-Chloroethoxy)methane | 10 | R | | | | | |
| 2,4-Dichlorophenol | 10 | R | | | | | |
| 1,2,4-Trichlorobenzene | 10 | R | | | | | |
| Naphthalene | 10 | R | | | | | |
| 4-Chloroaniline | 10 | R | | | | | |
| Hexachlorobutadiene | 10 | R | | | | | |
| 4-Chloro-3-Methylphenol | 10 | R | | | | | |
| 2-Methylnaphthalene | 10 | R | | | | | |
| Hexachlorocyclopentadiene | 10 | R | | | | | |
| 2,4,6-Trichlorophenol | 10 | R | | | | | |
| 2,4,5-Trichlorophenol | 25 | R | | | | | |
| 2-Chloronaphthalene | 10 | R | | | | | |
| 2-Nitroaniline | 25 | R | | | | | |
| Dimethylphthalate | 10 | R | | | | | |
| Acenaphthylene | 10 | R | | | | | |
| 3-Nitroaniline | 25 | R | | | W | W | W |
| Acenaphthene | 10 | R | | | | | |
| 2,4-Dinitrophenol | 25 | R | W | | | | |
| 4-Nitrophenol | 25 | R | | | | | |
| Dibenzofuran | 10 | R | | | | | |
| 2,4-Dinitrotoluene | 10 | R | | | | | |
| 2,6-Dinitrotoluene | 10 | R | | | | | |
| Diethylphthalate | 10 | R | | | | | |
| 4-Chlorophenylphenylether | 10 | R | | | | | |
| Fluorene | 10 | R | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-EVF3 | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW-ELB | RNS-GW-FVF3 | RNS-GW-FVF3-10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S213RE | S217 | S214 | S218 | S228 | S233 |
| Remarks | | | Duplicate of RNS- | | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | R | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | R | | | | | |
| N-Nitrosodiphenylamine | 10 | R | | | | | |
| 4-Bromophenylphenylether | 10 | R | | | | | |
| Hexachlorobenzene | 10 | R | | | | | |
| Pentachlorophenol | 25 | R | | | | | |
| Phenanthrene | 10 | R | | | | | |
| Anthracene | 10 | R | | | | | |
| Carbazole | 10 | R | UJ | | | | |
| Di-n-Butylphthalate | 10 | R | | | | | |
| Fluoranthene | 10 | R | | | | | |
| Pyrene | 10 | R | | | | | |
| Butylbenzylphthalate | 10 | R | | | | | |
| 3,3'-Dichlorobenzidine | 10 | R | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | R | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | UJ | 27 U | | |
| Chrysene | 10 | R | | | | | |
| Di-n-Octylphthalate | 10 | R | | | | | |
| Benzo(b)fluoranthene | 10 | R | | | | | |
| Benzo(k)fluoranthene | 10 | R | | | | | |
| Benzo(a)pyrene | 10 | R | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | R | | | | | |
| Dibenz(a,h)anthracene | 10 | R | | | | | |
| Benzo(g,h,i)perylene | 10 | R | | | | | |
| 3,4-Dichloronitrobenzene | 25 | R | | | | | |
| Diphenylsulfone | 10 | R | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/10/93 | 02/10/93 | 02/10/93 | 02/10/93 | 02/11/93 | 02/11/93 |
| Date Sample Extracted | | 03/08/93 | 02/11/93 | 02/11/93 | 02/12/93 | 02/12/93 | 02/12/93 |
| Date of Sample Analysis | | 03/10/93 | 03/06/93 | 03/05/93 | 03/09/93 | 03/10/93 | 03/11/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-FVF4 | RNS-GW-FVF6 | RNS-GW-FLBA | RNS-GW-GUB | RNS-GW-GUBDL | RNS-GW-H-S |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S229 | S230 | S231 | S301 | S301DL | S224 |
| Remarks | | | | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | | | 4 J | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | 1 J | | |
| 1,2-Dichlorobenzene | 10 | | | | 210 J | 310 | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | R | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | W | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | W | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | W | W | W | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | W | W | W |
| 4-Nitrophenol | 25 | | | | W | W | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-FVF4 | RNS-GW-FVF6 | RNS-GW-FLBA | RNS-GW-GUB | RNS-GW-GUBDL | RNS-GW-H-S |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S229 | S230 | S231 | S301 | S301DL | S224 |
| Remarks | | | | | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | W | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | W | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | W | W | W | W | | W |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 1 J | | 4 J | | | |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | | | | 610 J | 910 | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 20 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/09/93 | 02/24/93 | 02/24/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/11/93 | 02/11/93 | 02/11/93 | 02/25/93 | 02/25/93 | 02/11/93 |
| Date Sample Extracted | | 02/12/93 | 02/12/93 | 02/12/93 | 02/26/93 | 02/26/93 | 02/12/93 |
| Date of Sample Analysis | | 03/10/93 | 03/11/93 | 03/11/93 | 03/23/93 | 03/30/93 | 03/11/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-H-VF1 | RNS-GW-H-UB | RNS-GW-IS | RNS-GW-Ii | RNS-GW-IUB | RNS-GW-IUB-108 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S225 | S226 | S209 | S210 | S207 | S208 |
| Remarks | | | | | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | | | | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | W | W | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | W | W | W | W |
| 4-Nitrophenol | 25 | | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-H-VF1 | RNS-GW-H-UB | RNS-GW-IS | RNS-GW-Ii | RNS-GW-IUB | RNS-GW-IUB-108 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S225 | S226 | S209 | S210 | S207 | S208 |
| Remarks | | | | | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | UJ | UJ | UJ | UJ |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3' Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | | | | 10 U | 10 U | |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/08/93 | 02/08/93 | 02/08/93 | 02/08/93 |
| Date Sample Received by Laboratory | | 02/11/93 | 02/11/93 | 02/10/93 | 02/10/93 | 02/10/93 | 02/10/93 |
| Date Sample Extracted | | 02/12/93 | 02/12/93 | 02/11/93 | 02/11/93 | 02/11/93 | 02/11/93 |
| Date of Sample Analysis | | 03/10/93 | 03/10/93 | 03/06/93 | 03/06/93 | 03/06/93 | 03/06/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-I-LB | RNS-GW-JVF2 | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S222 | S241 | S242 | S243 | S244 | S204 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| Phenol | 10 | | 2 J | | 1 J | | |
| bis(2-Chloroethyl)ether | 10 | | | | | | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | | |
| 2-Methylphenol | 10 | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | W | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | W | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 25 | | | | | | |
| Dimethylphthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 25 | W | W | W | W | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 25 | | | | | W | |
| 4-Nitrophenol | 25 | | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-I-LB | RNS-GW-JVF2 | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S222 | S241 | S242 | S243 | S244 | S204 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | |
| | Limit (Aq) | | | | | | |
| 4-Nitroaniline | 25 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 25 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Carbazole | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | | 1 J | 1 J | | UJ |
| Chrysene | 10 | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | |
| Diphenylsulfone | 10 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/10/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/11/93 | 02/16/93 | 02/16/93 | 02/16/93 | 02/16/93 | 02/10/93 |
| Date Sample Extracted | | 02/12/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/11/93 |
| Date of Sample Analysis | | 03/09/93 | 03/12/93 | 03/12/93 | 03/12/93 | 03/11/93 | 03/05/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-KVF4 | RNS-GW-KLB | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GW-LLB |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S205 | S206 | S215 | S249 | S238 | S239 | S240 |
| Remarks | | | | Duplicate of R | | | Duplicate of R | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation | | | | | | | |
| | Limit (Aq) | | | | | | | |
| Phenol | 10 | 10 U | 10 U | | | 7 J | 1 J | |
| bis(2-Chloroethyl)ether | 10 | | | | | | | |
| 2-Chlorophenol | 10 | | | | | 2 J | | |
| 1,3-Dichlorobenzene | 10 | | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | | |
| 1,2-Dichlorobenzene | 10 | | | | | 1 J | | |
| 2-Methylphenol | 10 | | | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | | | | | | | |
| 4-Methylphenol | 10 | | | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | | | | | 1 J | | |
| Hexachloroethane | 10 | | | | | | | |
| Nitrobenzene | 10 | | | | | | | |
| Isophorone | 10 | | | | | | | |
| 2-Nitrophenol | 10 | | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | | |
| bis(2-Chloroethoxy)methane | 10 | | | | | 2 J | | |
| 2,4-Dichlorophenol | 10 | | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | | |
| Naphthalene | 10 | | | | | | | |
| 4-Chloroaniline | 10 | | | | | | | |
| Hexachlorobutadiene | 10 | | | | | 2 J | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | | |
| Hexachlorocyclopentadiene | 10 | | | | | | | |
| 2,4,6-Trichlorophenol | 10 | | | | | | | |
| 2,4,5-Trichlorophenol | 25 | | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | | |
| 2-Nitroaniline | 25 | | | | | | | |
| Dimethylphthalate | 10 | | | | | | | |
| Acenaphthylene | 10 | | | | | | | |
| 3-Nitroaniline | 25 | | | | W | | | W |
| Acenaphthene | 10 | | | | | | | |
| 2,4-Dinitrophenol | 25 | | W | W | | W | W | |
| 4-Nitrophenol | 25 | | | | | | | |
| Dibenzofuran | 10 | | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | | |
| Diethylphthalate | 10 | | | | | | | |
| 4-Chlorophenylphenylether | 10 | | | | | | | |
| Fluorene | 10 | | | | | | | |

(Continued)

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-KVF4 | RNS-GW-KLB | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GW-LLB |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | S205 | S206 | S215 | S249 | S238 | S239 | S240 |
| Remarks | | | | Duplicate of R | | | Duplicate of R | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | | |
| 4-Nitroaniline | 25 | | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | | | | | | | |
| N-Nitrosodiphenylamine | 10 | | | | | | | |
| 4-Bromophenylphenylether | 10 | | | | | | | |
| Hexachlorobenzene | 10 | | | | | | | |
| Pentachlorophenol | 25 | | | | | | | |
| Phenanthrene | 10 | | | | | | | |
| Anthracene | 10 | | | | | | | |
| Carbazole | 10 | | UJ | UJ | | | | |
| Di-n-Butylphthalate | 10 | | | | | | | |
| Fluoranthene | 10 | | | | | | | |
| Pyrene | 10 | | | | | | | |
| Butylbenzylphthalate | 10 | | 1 J | 1 J | | | | |
| 3,3'-Dichlorobenzidine | 10 | UJ | UJ | UJ | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 10 U | 10 U | 10 U | | | | 11 |
| Chrysene | 10 | | | | | | | |
| Di-n-Octylphthalate | 10 | | | | | | | |
| Benzo(b)fluoranthene | 10 | | | | | | | |
| Benzo(k)fluoranthene | 10 | | | | | | | |
| Benzo(a)pyrene | 10 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | | | | | | | |
| Dibenz(a,h)anthracene | 10 | | | | | | | |
| Benzo(g,h,i)perylene | 10 | | | | | | | |
| 3,4-Dichloronitrobenzene | 25 | | | | | | | |
| Diphenylsulfone | 10 | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/10/93 | 02/10/93 | 02/10/93 | 02/17/93 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date Sample Extracted | | 02/11/93 | 02/11/93 | 02/11/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 |
| Date of Sample Analysis | | 03/05/93 | 03/06/93 | 03/06/93 | 03/12/93 | 03/11/93 | 03/11/93 | 03/12/93 |
| Instrument Used for Analysis | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

# ROUND 2

## TENTATIVELY IDENTIFIED COMPOUNDS
## SEMIVOLATILES

| EXTRACTAB RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwe le Number | RNS-GW-CS | RNS-GW-CUB | N-DVF2 | RNS-GW-DVF3 | RNS-GW-KVF2 | RNS-GW-KVF3 | RN LB |
| Laboratory Sar. Number | S200 | S201 | 202RE | S203 | S204 | S205 | S |
| Remarks | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNK ALIPHATIC HYDROCARB (31.16) | 7 R | | | 5 R | 4 R | 3 R | |
| UNK. ALIPHATIC HYDROCARB (8 77) | 6 R | | 5 R | | | | |
| UNK ALIPHATIC HYDROCARB (30 25) | 4 R | | | 4 R | 3 R | | |
| UNK ALIPHATIC HYDROCARB (29.39) | 2 R | | | | | | |
| 2-CYCLOHEXEN-1-ONE (29 39) | 2 R | | | 2 R | | | |
| UNK DICHLOROSULFONATED BENZ. (28 49) | 2 R | | | | | | |
| UNK. CYCLOPENTANOL SUBS. (9.39) | | 16 R | | | | | 9 R |
| UNK AROMATIC (22 78) | | 9 J | | | | | |
| UNK. CYCLOPENTENEOL (9.51) | | 4 J | | | | | |
| UNK. ALIPHATIC HYDROCARB (12.34) | | 3 J | | | | | 4 J |
| UNK ALIPHATIC (8.38) | | 3 J | | | | | |
| UNK TRIPHENYLPHOSPHINE (31 20) | | 3 J | | | | | |
| DECANOIC ACID (17.78) | | 2 J | | | 4 J | 4 J | 4 J |
| BENZENESULFONAMIDE (20.89) | | | 440 J | | | | |
| UNK. ALIPHATIC HYDROCARB (14.54) | | | 4 J | | | | |
| 2-CYCLOHEXEN-1-ONE (10.38) | | | 4 R | 4 R | | | |
| UNK CYCLOHEXENOL (9 39) | | | 2 R | 3 R | 2 R | | |
| UNK ALIPHATIC (8.79) | | | | 8 R | 6 R | | |
| UNK CYCLOHEXANDIOL (13.01) | | | | 4 J | | | |
| UNK CYCLOHEXANOL SUBS (12.43) | | | | 3 J | | | |
| BENZENESULFONAMIDE (20.64) | | | | 3 J | | | |
| UNK AROMATIC (26.44) | | | | 2 J | | | |
| UNK ALIPHATIC (10.44) | | | | | 3 R | | |
| MIX UNK ALIPHATIC HYD SIL (30 25) | | | | | | 2 R | 7 R |
| CYCLIC ALCOHOL (9 39) | | | | | | 19 R | |
| UNK ALIPHATIC HYDROCARB (9 51) | | | | | | 7 J | 8 J |
| UNK CARBOXYLIC ACID (20 52) | | | | | | | 9 J |
| MIX UNK ALIPHATIC HYDRO SILA (31.17) | | | | | | | 6 R |
| MIX UNK ALIPHATIC HYDRO SILA (32 21) | | | | | | | 4 R |
| MIX UNK ALIPHATIC HYDRO SILA (29.40) | | | | | | | 3 R |
| MIX UNK ALIPHATIC HYDRO SILA (33.41) | | | | | | | 2 R |
| SULFUR, MOL. (S8) (26 12) | | | | | | | |
| UNK TMS DERIVATIVE (14 45) | | | | | | | |
| 1,2-CYCLOHEXANEDIOL (13 01) | | | | | | | |
| CYCLOPENTASILOXANE, DECAMETH (14 45) | | | | | | | |
| MIX UNK ALIPHATICS (9 43) | | | | | | | |
| UNK ALIPHATIC (33 88) | | | | | | | |
| UNK ALIPHATIC (15 66) | | | | | | | |
| UNK TRIPHENYLPHOSPH COM (31 09) | | | | | | | |
| UNK DICHLOROSULFONATED BENZ (28 49) | | | | | | | |
| UNK CYCLIC ALIPHATIC (8 72) | | | | | | | |

| EXTRACTABL RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-IUB | RNS-GW-IUB-108 | NS-GW-IS | RNS-GW-li | RNS-GW-EVF1 | RNS-GW-EVF3 | RNS-C. -EVF4 |
| Laboratory Sample Number | S207 | S208 | S209 | S210 | S211 | S213RE | S214 |
| Remarks | | Field Blank | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (31 16) | | | 3 R | | | | |
| UNK ALIPHATIC HYDROCARB (8 77) | | | | | | 6 R | |
| UNK. ALIPHATIC HYDROCARB (30.25) | | | 3 R | | | | |
| UNK. ALIPHATIC HYDROCARB (29 39) | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (29.39) | | | | | | | |
| UNK DICHLOROSULFONATED BENZ. (28 49) | | | | | | | |
| UNK. CYCLOPENTANOL SUBS. (9 39) | | 9 J | | | | | |
| UNK AROMATIC (22 78) | | | | | | | |
| UNK. CYCLOPENTENEOL (9 51) | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 34) | | | | | | | |
| UNK ALIPHATIC (8 38) | | | | | | | |
| UNK. TRIPHENYLPHOSPHINE (31.20) | | | | | | | |
| DECANOIC ACID (17.78) | | | | | | | |
| BENZENESULFONAMIDE (20 89) | | | | | | | |
| UNK ALIPHATIC HYDROCARB (14.54) | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 38) | 4 R | | 5 R | 4 R | 3 R | 3 R | 2 R |
| UNK CYCLOHEXENOL (9 39) | 3 R | | 4 R | 3 R | | | |
| UNK ALIPHATIC (8 79) | 6 R | | 6 R | 7 R | 8 R | | |
| UNK CYCLOHEXANDIOL (13 01) | | | | | | | |
| UNK. CYCLOHEXANOL SUBS (12.43) | | | 3 J | 3 J | | | |
| BENZENESULFONAMIDE (20.64) | | | | | | | |
| UNK AROMATIC (26.44) | | | | | | | |
| UNK ALIPHATIC (10.44) | | | | | | | |
| MIX UNK ALIPHATIC HYD SIL (30.25) | | | | 3 R | 3 R | | 5 R |
| CYCLIC ALCOHOL (9 39) | | | | | | | |
| UNK ALIPHATIC HYDROCARB (9.51) | | | | | | | |
| UNK CARBOXYLIC ACID (20.52) | | | | | | | |
| MIX UNK ALIPHATIC HYDRO SILA (31.17) | | | | 3 R | 3 R | | 5 R |
| MIX UNK ALIPHATIC HYDRO SILA (32.21) | | | | | | | 3 R |
| MIX UNK ALIPHATIC HYDRO SILA (29 40) | | | | | 2 R | | 3 R |
| MIX UNK ALIPHATIC HYDRO SILA (33 41) | | | | | | | |
| SULFUR, MOL (S8) (26 12) | | 1800 J | | | | | |
| UNK TMS DERIVATIVE (14.45) | | | 2 J | | | | |
| 1,2-CYCLOHEXANEDIOL (13 01) | | | | | | | 6 J |
| CYCLOPENTASILOXANE, DECAMETH (14 45) | | | | | | | |
| MIX UNK ALIPHATICS (9.43) | | | | | | | |
| UNK ALIPHATIC (33 88) | | | | | | | |
| UNK ALIPHATIC (15 66) | | | | | | | |
| UNK TRIPHENYLPHOSPH COM (31.09) | | | | | | | |
| UNK DI[illegible] FONATED BENZ (28 49) | | | | | | | |
| UNK C[illegible] ATIC (8 72) | | | | | | | |

| EXTRACTAI | GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwes | le Number | RNS-GW-KVF5 | RNS-GW-EVF5 | GW-ELB | RNS-GW-I-LB | RNS-GW-C-LB | RNS-GW-EVF2R |
| Laboratory Sample Number | | S215 | S217 | S218 | S222 | S221 | S307 |
| Remarks | | Duplicate of RNS-GW-KLB | Duplicate of RNS-GW-EVF3 | | | | |
| Units | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (31.16) | | | | | | | |
| UNK ALIPHATIC HYDROCARB (8.77) | | | | 10 R | 4 R | 6 R | |
| UNK. ALIPHATIC HYDROCARB (30.25) | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (29.39) | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (29.39) | | | | | | | |
| UNK DICHLOROSULFONATED BENZ. (28.49) | | | | | | | |
| UNK. CYCLOPENTANOL SUBS. (9.39) | | | | | | | |
| UNK AROMATIC (22.78) | | | | | | | |
| UNK. CYCLOPENTENEOL (9.51) | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (12.34) | | | | | | | |
| UNK ALIPHATIC (8.38) | | | | | | | |
| UNK. TRIPHENYLPHOSPHINE (31.20) | | | | | | | |
| DECANOIC ACID (17.78) | | 2 J | | 2 J | | | |
| BENZENESULFONAMIDE (20.89) | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (14.54) | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.38) | | 2 R | 3 R | 4 R | | 3 R | |
| UNK CYCLOHEXENOL (9.39) | | | 2 R | 3 R | | | |
| UNK ALIPHATIC (8.79) | | 5 R | 9 R | | | | |
| UNK. CYCLOHEXANDIOL (13.01) | | | | | | | |
| UNK. CYCLOHEXANOL SUBS (12.43) | | | | | | | |
| BENZENESULFONAMIDE (20.64) | | | | | | | |
| UNK AROMATIC (26.44) | | | | | | | |
| UNK ALIPHATIC (10.44) | | | | | | | |
| MIX UNK ALIPHATIC HYD SIL (30.25) | | | 4 R | | | | |
| CYCLIC ALCOHOL (9.39) | | | | | | | 3 R |
| UNK ALIPHATIC HYDROCARB (9.51) | | | | | | | |
| UNK CARBOXYLIC ACID (20.52) | | 7 J | | | | | |
| MIX UNK ALIPHATIC HYDRO SILA (31.17) | | | 3 R | | | | |
| MIX UNK ALIPHATIC HYDRO SILA (32.21) | | | | | | | |
| MIX UNK ALIPHATIC HYDRO SILA (29.40) | | | 3 R | | | | |
| MIX UNK ALIPHATIC HYDRO SILA (33.41) | | | | | | | |
| SULFUR, MOL. (S8) (26.12) | | | | | | | |
| UNK TMS DERIVATIVE (14.45) | | | | | | | |
| 1,2-CYCLOHEXANEDIOL (13.01) | | | | | | | |
| CYCLOPENTASILOXANE, DECAMETH (14.45) | | | 3 R | | | | |
| MIX UNK ALIPHATICS (9.43) | | | | | | 5 J | |
| UNK ALIPHATIC (33.88) | | | | | | 4 J | |
| UNK ALIPHATIC (15.66) | | | | | | 3 J | |
| UNK. TRIPHENYLPHOSPH COM (31.09) | | | | | | 3 J | |
| UNK DICHLOROSULFONATED BENZ (28.49) | | | | | | | |

| EXTRACTABL[illegible]RGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sam[illegible] [illegible]umber | RNS-GW-DLBA | RNS-GW-H-S | RNS-GW-H-V. | RNS-GW-H-UB | RNS-GW-D18 | RNS-GW-FVF3 | RNS-GW-FVF4 | RNS-GW-FVF6 | [illegible]-GW-FLBA |
| Laboratory Sample Number | S221 | S224 | S225 | S226 | S227 | S228 | S229 | S230 | S231 |
| Remarks | | | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK. ALIPHATIC ALCOHOL (11.82) | 4 J | 5 J | | | | | | | |
| UNK. ALIPHATIC (8.75) | 4 J | | | | | | | | |
| UNK. CARB ACID (16.28) | 4 J | | | | | | | | |
| UNK. ALIPHATIC AMINE (8.75) | | 9 R | | 8 R | 5 R | 10 R | 6 R | 6 R | 7 R |
| UNK. ALIPHATIC (10.42) | | 3 R | | | | | | | |
| UNK. CYCLOHEXENOL (9.43) | | 2 R | | | | 3 R | | | 2 R |
| UNK. NITROALIPHATIC (13.46) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.35) | | | | 3 R | 3 R | 4 R | 3 R | 3 R | 3 R |
| BENZENESULFONAMIDE (20.53) | | | | 3 J | | 27 J | | | |
| DECANOIC ACID (17.69) | | | | | | 5 J | | | |
| UNK. ALIPHATIC (14.52) | | | | | | 2 J | | | |
| BENZENESULFONAMIDE (20.85) | | | | | | | | | |
| UNK. CARB ACID (17.76) | | | | | | | | | |
| MIX UNKS. (10.18) | | | | | | | | | |
| ETHANE, PENTACHLORO- (11.43) | | | | | | | | | |
| UNK. ALIPHATIC (13.24) | | | | | | | | | |
| BENZENESULFONAMIDE (20.72) | | | | | | | | | |
| UNK. BROMINATED ALI. (13.97) | | | | | | | | | |
| UNK. ALIPHATIC (12.42) | | | | | | | | | |
| TRICHLOROBENZENE (10.42) | | | | | | | | | |
| UNK. ALIPHATIC (10.47) | | | | | | | | | |
| UNK. ALIPHATIC (8.38) | | | | | | | | | |
| POLYCHLORINATED ALIPH (23.57) | | | | | | | | | |
| UNKKNOWN (15.78) | | | | | | | | | |
| UNK. ALIPHATIC CHLORINATED (14.68) | | | | | | | | | |
| UNK. ALIPHATIC CHLORINATED (14.74) | | | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (30.23) | | | | | | | | | |
| MIX UNK. ALIPHA HYDRO+SILANE (31.14) | | | | | | | | | |
| UNK. ALIPHATIC + SILANE (32.17) | | | | | | | | | |
| UNK. ALIPHATIC + SILANE (29.37) | | | | | | | | | |
| UNK. ALIPHATIC + SILANE (28.48) | | | | | | | | | |
| MIX UNK CYCLOHEXENOL+UNK (9.43) | | | | | | | | | |
| UNK C6 CYCLIC (13.23) | | | | | | | | | |
| PHENYL SUB AMINO NATHYENE (26.42) | | | | | | | | | |
| CYCLOALKYL/AMINE/CYCLOHEX. (9.42) | | | | | | | | | |
| CYCLOALKYL/AMINE/CYCLOHEX. (11.89) | | | | | | | | | |
| UNK. ALIPH. HYDROCARB + SILANE (30.23) | | | | | | | | | |
| UNK. ALIPH. HYDROCARB + SILANE (31.14) | | | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (29.38) | | | | | | | | | |
| UNK. ALIPH[illegible] (13.23) | | | | | | | | | |

| EXTRACTABL RGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S nber | RNS-GW-D10 | RNS-GW-FVF3-10 | RNS-GV | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GV | RNS-GW-JVF2 |
| Laboratory Sampl er | S232 | S233 | S235 | S236 | S237 | S238 | S239 | S240 | S241 |
| Remarks | | Field Blank | | | Duplicate of RNS-GW-AUB | | Duplicate of RNS-GW-LVF2 | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK. ALIPHATIC ALCOHOL (11.82) | | | | | | | | | |
| UNK. ALIPHATIC (8.75) | | | | | | | | | |
| UNK. CARB ACID (16.28) | | | | | | | | | |
| UNK. ALIPHATIC AMINE (8.75) | 7 R | 9 J | 7 R | 5 R | 4 R | | 5 R | 7 R | 9 R |
| UNK. ALIPHATIC (10.42) | | | | | | | 2 R | | |
| UNK. CYCLOHEXENOL (9.43) | | 2 J | | | | | | | |
| UNK. NITROALIPHATIC (13.46) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.35) | 4 R | 3 J | | | | | | 4 R | 3 R |
| BENZENESULFONAMIDE (20.53) | | | | | | | | | |
| DECANOIC ACID (17.69) | | | | | | | | | |
| UNK. ALIPHATIC (14.52) | | | | | | | | | |
| BENZENESULFONAMIDE (20.85) | | | 410 J | 280 J | 280 J | | 140 J | | 49 J |
| UNK. CARB ACID (17.76) | | | | 3 J | | | | | |
| MIX UNKS. (10.18) | | | | | | 1600 J | | | |
| ETHANE, PENTACHLORO- (11.43) | | | | | | 99 J | | | |
| UNK. ALIPHATIC (13.24) | | | | | | 79 J | | | |
| BENZENESULFONAMIDE (20.72) | | | | | | 78 J | | | |
| UNK. BROMINATED ALI. (13.97) | | | | | | 78 J | | | |
| UNK. ALIPHATIC (12.42) | | | | | | 30 J | | | |
| TRICHLOROBENZENE (10.42) | | | | | | 30 J | | | |
| UNK. ALIPHATIC (10.47) | | | | | | 12 R | | | |
| UNK. ALIPHATIC (8.38) | | | | | | 7 J | | | |
| POLYCHLORINATED ALIPH. (23.57) | | | | | | 5 J | | | |
| UNKKNOWN (15.78) | | | | | | 3 J | | | |
| UNK. ALIPHATIC CHLORINATED (14.68) | | | | | | 2 J | | | |
| UNK. ALIPHATIC CHLORINATED (14.74) | | | | | | 2 J | | | |
| UNK. ALIPHATIC HYDROCARB (30.23) | | | | | | | | 8 J | |
| MIX UNK. ALIPHA HYDRO+SILANE (31.14) | | | | | | | | 6 J | |
| UNK. ALIPHATIC + SILANE (32.17) | | | | | | | | 4 J | |
| UNK. ALIPHATIC + SILANE (29.37) | | | | | | | | 3 J | |
| UNK. ALIPHATIC + SILANE (28.48) | | | | | | | | 2 J | |
| MIX UNK CYCLOHEXENOL+UNK (9.43) | | | | | | | | | 2 J |
| UNK C6 CYCLIC (13.23) | | | | | | | | | |
| PHENYL SUB AMINO NATHYENE (26.42) | | | | | | | | | |
| CYCLOALKYL/AMINE/CYCLOHEX. (9.42) | | | | | | | | | |
| CYCLOALKYL/AMINE/CYCLOHEX. (11.89) | | | | | | | | | |
| UNK. ALIPH. HYDROCARB + SILANE (30.23) | | | | | | | | | |
| UNK. ALIPH. HYDROCARB + SILANE (31.14) | | | | | | | | | |
| UNK. ALIPHATIC HYDROCARB (29.38) | | | | | | | | | |
| UNK. ALIPHATIC (13.23) | | | | | | | | | |

| EXTRACTABL[illegible]RGANIC ANALYSIS | | | | |
|---|---|---|---|---|
| ERM Midwest Sa[illegible] umber | RNS GW JVF3 | RNS GW JVF4 | RNS GW J[illegible] | RNS GW LVF1 |
| Laboratory Sample Number | S242 | S243 | S244 | S249 |
| Remarks | | | | |
| Units | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | |
| UNK. ALIPHATIC ALCOHOL (11 82) | | | | |
| UNK. ALIPHATIC (8.75) | 15 R | | | |
| [illegible]K. CARB ACID (16 28) | | | | |
| UNK. ALIPHATIC AMINE (8 75) | | 23 R | 6 R | 10 R |
| UNK. ALIPHATIC (10 42) | | | | |
| UNK. CYCLOHEXENOL (9.43) | | | | |
| UNK. NITROALIPHATIC (13.46) | | | | |
| 2-CYCLOHEXEN-1-ONE (10 35) | 4 R | 4 R | | |
| BENZENESULFONAMIDE (20.53) | | | | |
| DECANOIC ACID (17.69) | | | | |
| UNK. ALIPHATIC (14.52) | | | | |
| BENZENESULFONAMIDE (20.85) | | | | |
| UNK. CARB ACID (17.76) | | | | |
| MIX UNKS (10.18) | | | | |
| ETHANE, PENTACHLORO- (11.43) | | | | |
| UNK. ALIPHATIC (13.24) | | | | |
| BENZENESULFONAMIDE (20 72) | 32 J | 48 J | | |
| [illegible]K. BROMINATED ALI. (13 97) | | | | |
| UNK. ALIPHATIC (12 42) | | 4 J | | |
| TRICHLOROBENZENE (10 42) | | | | |
| UNK. ALIPHATIC (10.47) | | | 3 R | 5 R |
| UNK. ALIPHATIC (8 38) | | | | |
| POLYCHLORINATED ALIPH (23.57) | | | | |
| UNKKNOWN (15.78) | | | | |
| UNK. ALIPHATIC CHLORINATED (14 68) | | | | |
| UNK. ALIPHATIC CHLORINATED (14.74) | | | | |
| UNK. ALIPHATIC HYDROCARB (30 23) | | | | |
| MIX UNK ALIPHA HYDRO+SILANE (31.14) | | | | |
| UNK. ALIPHATIC + SILANE (32.17) | | | | 3 J |
| UNK. ALIPHATIC + SILANE (29 37) | | | | 3 J |
| UNK. ALIPHATIC + SILANE (28.48) | | | | 3 J |
| MIX UNK CYCLOHEXENOL+UNK (9 43) | 3 J | | | 3 J |
| UNK C6 CYCLIC (13.23) | 3 J | | | |
| PHENYL SUB AMINO NATHYENE (26.42) | | 4 J | | |
| CYCLOALKYL/AMINE/CYCLOHEX. (9.42) | | 3 J | | |
| CYCLOALKYL/AMINE/CYCLOHEX (11 89) | | 2 J | | |
| UNK. ALIPH. HYDROCARB + SILANE (30 23) | | | 5 J | 7 J |
| UNK. ALIPH. HYDROCARB + SILANE (31.14) | | | 4 J | 7 J |
| UNK. ALIPHATIC HYDROCARB (29 38) | | | 3 J | |
| UNK. ALIPH[illegible]IC (13 23) | | | 3 J | |

EXTRACTAP GANIC ANALYSIS

| ERM-Midwest Sa ber | RNS GW-B S | RNS-GW-B-SDL | RNS | RNS GW D1 | RNS GW-D6 | RNS-GW-D1-110 | RNS GW S10 | RNS G\ | .INS GW S11DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S247 | S247DL | S250 | S251 | S258 | S262 | S263 | S264 | S264DL |
| Remarks | | Dilution | | | | Field Blank | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| BENZENESULFONAMIDE (21.47) | 1800 J | | | | | | | | |
| BENZENESULFONAMIDE , 4-CHLORO (22 94) | 46 J | | | | | | | 2 J | |
| UNK. AROMATIC (18.47) | 11 J | | | | | | | | |
| UNK. ALKOXYBENZENE (15.97) | 8 J | | | | | | | | |
| UNK DICHLORINATED ALI. (25.65) | 6 J | | | | | | | | |
| UNK BROMOBENZOIC ACID (19.26) | 5 J | | | | | | | | |
| UNK BROMOBENZOIC ACID (18.91) | 4 J | | | | | | | | |
| CHLOROMETHYLSULFONYLBENZENE (20 31) | 4 J | | | | | | | | |
| UNK. ALIPHATIC AMINE (8 75) | 3 R | | 8 R | 2 R | 5 R | 4 J | 6 R | | |
| UNK CHLORINATED ALHYL (19.51) | 3 J | | | | | | | | |
| UNK. DICHLOROPHENOL (18.69) | 3 J | | | | | | | | |
| BENZENESULFONAMIDE (20.87) | | 1900 J | | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22.87) | | 26 J | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.42) | | | 3 R | 4 R | 3 R | 4 J | 5 R | 4 R | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | | | 2 R | | 2 R | | | | |
| BENZENESULFONAMIDE (20.69) | | | | 43 J | | | | | 54 J |
| 1,2-CYCLOHEXANDIOL (12.98) | | | | 4 R | | 5 J | | | |
| UNK. ALIPHATIC (13.23) | | | | 3 J | | 2 J | | | |
| BENZENESULFONAMIDE (20.79) | | | | | | | 150 J | | |
| MIX AROMATIC SPECIES (20.76) | | | | | | | | 170 J | |
| UNK ALKOXYBENZENE (15.98) | | | | | | | | 92 J | |
| UNK. AROMATIC AMINE (8.75) | | | | | | | | 10 R | |
| BENZENAMINE, 3-(TRIFLUOROMET (12.75) | | | | | | | | 6 J | |
| UNK DIHYDROXY SULFONATE AROM. (23 07) | | | | | | | | 5 J | |
| UNK. METHOXYBENZENE (17.94) | | | | | | | | 4 J | |
| UNK CYCLOALKANOL (9.43) | | | | | | | | 3 J | |
| UNK PHENYLSULFONYLNAPHTAL (26.42) | | | | | | | | 2 J | |
| 2,4-IMIDAZOLIDINEDIONE,5,5- (29.70) | | | | | | | | 2 J | |
| UNK NITRO PHENYL (24.72) | | | | | | | | 2 J | |
| UNK. PHENYLSULFONYLNAPHTAL (25 19) | | | | | | | | 2 J | |
| UNK ALKOXYBENZENE (16.00) | | | | | | | | | 84 J |
| UNK CHLORINATED AROMATIC (20.77) | | | | | | | | | 62 J |
| UNK SUB MORPHOLINE (26.75) | | | | | | | | | |
| UNK SUB MORPHOLINE (24 57) | | | | | | | | | |
| UNK ALKOXY ETHANOL (11 88) | | | | | | | | | |
| BENZENESULFONAMIDE (21 64) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (16 91) | | | | | | | | | |
| MIX UNK BENZENESULFONAMIDE (30 14) | | | | | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | | | | | |
| UNK AROMATIC (26 57) | | | | | | | | | |

EXTRACTABLE ' GANIC ANALYSIS

| ERM-Midwest Sample . .oer | RNS GW B S | RNS GW B SDL | RNS GW S. | RNS GW D1 | RNS GW D5 | RNS GW D1 110 | RNS GW S10 | RNS GW S11 | .INS GW S11DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S247 | S247DL | S250 | S251 | S256 | S252 | S253 | S254 | S254DL |
| Remarks | | Dilution | | | | Field Blank | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK. TRIFLUOROMET BENZE AMINE (12 84) | | | | | | | | | |
| UNK TRIFLUOROMET BENZE AMINE (11.51) | | | | | | | | | |
| UNK. ALIPHATIC AMINE (8 82) | | | | | | | | | |
| BENZENESULFONAMIDE UNK CHLOR (22 98) | | | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16.84) | | | | | | | | | |
| UNK. CYCLOHEXENOL (9 49) | | | | | | | | | |
| UNK. CYCLIC HYDROCARB/UNK SUB (12.47) | | | | | | | | | |
| UNK. CYCLOHEXANOL (12.41) | | | | | | | | | |
| UNK. CYCLOHEXANOL (12.47) | | | | | | | | | |
| BENZENESULFONAMIDE (21.06) | | | | | | | | | |
| UNK. PHENYL (15 97) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.75) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8.76) | | | | | | | | | |
| UNK ALKOXYBENZENE (16.00) | | | | | | | | | |
| UNK. CYCLOHEXYL (12.47) | | | | | | | | | |
| BENZENESULFONAMIDE (21.34) | | | | | | | | | |
| UNK ALKOXYBENZENE (16.01) | | | | | | | | | |
| BENZENESULFONAMIDE , N- (PHENYL (30 11) | | | | | | | | | |
| UNK CHLOR NAPHTAYLENE/BIPHEN (26.38) | | | | | | | | | |
| UNK CYCLI ALCOHOL (9 39) | | | | | | | | | |
| METHANONE, DIPHENYL (21.85) | | | | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25.55) | | | | | | | | | |
| UNK. SULFONATED BENZENE (20.83) | | | | | | | | | |
| UNK. ALKOXYBENZENE (16.05) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.82) | | | | | | | | | |
| UNK. ALIPHATIC AMINE (8.82) | | | | | | | | | |
| CHLORINATED ALKOXYBIPHENYL (26.41) | | | | | | | | | |
| UNK CYCLOHEXENOL (9.50) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.50) | | | | | | | | | |
| UNK. BENZENEAMINE/UNK SUBSTIT (24 85) | | | | | | | | | |
| METHANONE, DIPHENYL- (21 89) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 90) | | | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 51) | | | | | | | | | |
| MIX BENZENESULFONAMIDE/CHLOR (21 55) | | | | | | | | | |
| UNK. ALKOXYBENZENE (16 05) | | | | | | | | | |
| UNK TRIFLUOROMET BENZENAMINE (12 82) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | | | | |
| UNK. CHLORINATED NAPTHYLENE (26 41) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | | | | | | | | |
| UNK. ALIPH[illegible] 26 91) | | | | | | | | | |

| EXTRACTABI F GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S er | RNS-GW-B-S | RNS-GW-B-SDL | RNS | RNS-GW-D1 | RNS-GW-D6 | RNS-GW-D1-110 | RNS-GW-S10 | RNS-G | RNS-GW-S11DL |
| Laboratory Sample | S247 | S247DL | S2 | S261 | S268 | S262 | S263 | S2 | S264DL |
| Remarks | | Dilution | | | | Field Blank | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13.05) | | | | | | | | | |
| METHANONE, DIPHENYL (21.90) | | | | | | | | | |
| UNK. CYCLOHEXENOL (9.50) | | | | | | | | | |
| UNK. ALIPHATIC (31.34) | | | | | | | | | |
| UNK BENZENEAMINE/UNK. SUBS (24.86) | | | | | | | | | |
| UNK TRIFLUOROMETHYL ANLINE (11.51) | | | | | | | | | |
| UNK. ALKOXYETHANOL (11.90) | | | | | | | | | |
| UNK. ALIPHATIC ACID (17.83) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23.04) | | | | | | | | | |
| BENZENESULFONAMIDE (20.89) | | | | | | | | | |
| UNK. ALKOXYBENZENE (16.0) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZAMINE (12.79) | | | | | | | | | |

EXTRACTABLE ' GANIC ANALYSIS

| ERM Midwest Sample . .ber | RNS GW D18 | RNS GW S4 | RNS GW D4 | RNS GW S1 | RNS GW D3 | RNS GW S16 | RNS GW D9 | RNS GW S3 | ... GW D7 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S267 | S268 | S269 | S260 | S261 | S263 | S264 | S265 | S266 |
| Remarks | Duplicate of RNS-GW-D5 | | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| BENZENESULFONAMIDE (21 47) | | | | | | | | | |
| BENZENESULFONAMIDE , 4-CHLORO (22 94) | | | | | | | | | |
| UNK AROMATIC (18 47) | | | | | | | | | |
| UNK ALKOXYBENZENE (15 97) | | | | | | | | | |
| UNK DICHLORINATED ALI (25 65) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 26) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 91) | | | | | | | | | |
| CHLOROMETHYLSULFONYLBENZENE (20.31) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8.75) | 7 R | 6 R | 3 R | 7 R | | | 13 R | 6 R | |
| UNK CHLORINATED ALHYL (19 51) | | | | | | | | | |
| UNK DICHLOROPHENOL (18 69) | | | | | | | | | |
| BENZENESULFONAMIDE (20.87) | | | | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 42) | 4 R | 3 R | 3 R | 5 R | 3 R | 6 R | 4 R | 5 R | 3 R |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | 4 R | 2 R | | 3 R | | | 3 R | | 2 R |
| BENZENESULFONAMIDE (20 69) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (12 98) | ? R | | 3 R | | | 3 R | 2 R | | |
| UNK ALIPHATIC (13 23) | | | | | | | | | |
| BENZENESULFONAMIDE (20 79) | | | | | | | | 40 J | |
| MIX AROMATIC SPECIES (20 76) | | | | | | | | | |
| UNK ALKOXYBENZENE (15 98) | | | | | | | | | |
| UNK AROMATIC AMINE (8.75) | | | | | | | | | |
| BENZENAMINE, 3-(TRIFLUOROMET (12.75) | | | | | | | | | |
| UNK DIHYDROXY SULFONATE AROM (23.07) | | | | | | | | | |
| UNK METHOXYBENZENE (17.94) | | | | | | | | | |
| UNK CYCLOALKANOL (9.43) | | | | | | | | | |
| UNK PHENYLSULFONYLNAPHTAL (26 42) | | | | | | | | | |
| 2,4-IMIDAZOLIDINEDIONE,5,5- (29.70) | | | | | | | | | |
| UNK NITRO PHENYL (24 72) | | | | | | | | | |
| UNK PHENYLSULFONYLNAPHTAL (25 19) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 00) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | | | | | | | |
| UNK SUB MORPHOLINE (26 75) | | | | 4 J | | | | | |
| UNK SUB MORPHOLINE (24 57) | | | | 3 J | | | | | |
| UNK ALKOXY ETHANOL (11 88) | | | | 2 J | | | | | |
| BENZENESULFONAMIDE (21 64) | | | | | 2100 J | 2000 J | | | |
| UNK IMADAZOLIDINDIONE (16 91) | | | | | 14 J | | | | |
| MIX UNK BENZENESULFONAMIDE (30 14) | | | | | 10 J | | | | |
| UNK ALKYL AMINE (8 82) | | | | | 4 R | | | | |
| UNK AROMATIC (26 57) | | | | | 2 J | | | | |

| EXTRACTABI GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest Sa. ber | RNS-GW-D18 | RNS-GW-S4 | RNS-GW | RNS-GW-S1 | RNS-GW-D3 | RNS-GW-S16 | RNS-GW-D9 | RNS-GW-S3 | GW-D7 |
| Laboratory Sample Nu...er | S257 | S258 | S259 | S280 | S281 | S283 | S284 | S285 | S286 |
| Remarks | Duplicate of RNS-GW-D5 | | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK TRIFLUOROMET BENZE AMINE (12 84) | | | | | | 170 J | | | |
| UNK TRIFLUOROMET BENZE AMINE (11 51) | | | | | | 29 J | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | 10 R | | | |
| BENZENESULFONAMIDE UNK CHLOR (22 98) | | | | | | 5 J | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 84) | | | | | | 5 J | | | |
| UNK CYCLOHEXENOL (9 49) | | | | | | 4 J | | 2 J | |
| UNK CYCLIC HYDROCARB/UNK SUB (12 47) | | | | | | 4 J | | | |
| UNK CYCLOHEXANOL (12 41) | | | | | | | 2 J | | |
| UNK CYCLOHEXANOL (12 47) | | | | | | | | 3 J | |
| BENZENESULFONAMIDE (21 06) | | | | | | | | | 570 J |
| UNK PHENYL (15 97) | | | | | | | | | 15 J |
| UNK TRIFLUOROMET BENZENAMINE (12 75) | | | | | | | | | 10 J |
| UNK ALIPHATIC AMINE (8 76) | | | | | | | | | 8 R |
| UNK ALKOXYBENZENE (16.00) | | | | | | | | | |
| UNK CYCLOHEXYL (12.47) | | | | | | | | | |
| BENZENESULFONAMIDE (21 34) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 01) | | | | | | | | | |
| BENZENESULFONAMIDE , N- (PHENYL (30 11) | | | | | | | | | |
| UNK CHLOR NAPHTAYLENE/BIPHEN (26 38) | | | | | | | | | |
| UNK CYCLI ALCOHOL (9 39) | | | | | | | | | |
| METHANONE, DIPHENYL (21.85) | | | | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25 55) | | | | | | | | | |
| UNK SULFONATED BENZENE (20 83) | | | | | | | | | |
| UNK ALKOXYBENZENE (16.05) | | | | | | | | | |
| UNK TRIFLUOROMET BENZENAMINE (12.82) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | | | | |
| CHLORINATED ALKOXYBIPHENYL (26 41) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 50) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.50) | | | | | | | | | |
| UNK BENZENEAMINE/UNK SUBSTIT (24.85) | | | | | | | | | |
| METHANONE, DIPHENYL- (21 89) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 90) | | | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 51) | | | | | | | | | |
| MIX BENZENESULFONAMIDE/CHLOR (21 55) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 05) | | | | | | | | | |
| UNK TRIFLUOROMET BENZENAMINE (12 82) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8.82) | | | | | | | | | |
| UNK CHLORINATED NAPTHYLENE (26 41) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.49) | | | | | | | | | |
| UNK ALIPHATIC (26 91) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-D18 | RNS-GW-S4 | RNS-GW-D4 | RNS-GW-S1 | RNS-GW-D3 | RNS-GW-S18 | RNS-GW-D9 | RNC-GW-S3 | GW-D7 |
| Laboratory Sample Number | S257 | S258 | S259 | S260 | S261 | S263 | S264 | S265 | S266 |
| Remarks | Duplicate of RNS-GW-D5 | | | | | | | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13.05) | | | | | | | | | |
| METHANONE, DIPHENYL (21.90) | | | | | | | | | |
| UNK CYCLOHEXENOL (9.50) | | | | | | | | | |
| UNK. ALIPHATIC (31.34) | | | | | | | | | |
| UNK BENZENEAMINE/UNK. SUBS (24.86) | | | | | | | | | |
| UNK TRIFLUOROMETHYL ANLINE (11.51) | | | | | | | | | |
| UNK. ALKOXYETHANOL (11.90) | | | | | | | | | |
| UNK. ALIPHATIC ACID (17.83) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23.04) | | | | | | | | | |
| BENZENESULFONAMIDE (20.89) | | | | | | | | | |
| UNK. ALKOXYBENZENE (16.01) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZAMINE (12.79) | | | | | | | | | |

| EXTRACTABI[illegible]GANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sa[illegible]ber | RNS-GW-D7DL | RNS-GW-S14 | RNS-G[illegible] | RNS-GW-S20 | RNS-GW-S20DL | RNS-GW-D8 | RNS-GW-D8DL |
| Laboratory Sample Number | S268DL | S269 | S272hc | S273 | S273DL | S274 | S274DL |
| Remarks | Dilution | | | Duplicate of RNS-GW-S17 | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| BENZENESULFONAMIDE (21.47) | | | | | | | |
| BENZENESULFONAMIDE , 4-CHLORO (22 94) | | | | | | | |
| UNK AROMATIC (18.47) | | | | | | | |
| UNK. ALKOXYBENZENE (15.97) | | | | | | | |
| UNK. DICHLORINATED ALI. (25.65) | | | | | | | |
| UNK. BROMOBENZOIC ACID (19 26) | | | | | | | |
| UNK. BROMOBENZOIC ACID (18.91) | | | | | | | |
| CHLOROMETHYLSULFONYLBENZENE (20.31) | | | | | | | |
| UNK. ALIPHATIC AMINE (8.75) | | 13 R | | | | | |
| UNK. CHLORINATED ALHYL (19.51) | | | | | | | |
| UNK. DICHLOROPHENOL (18.69) | | | | | | | |
| BENZENESULFONAMIDE (20.87) | 600 J | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22.87) | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10.42) | | 5 R | | | | | |
| UNK. CYCLOHEXENOL+UNK MIX (9.42) | | | | | | | |
| BENZENESULFONAMIDE (20.69) | | | | | 1200 J | | |
| 1,2-CYCLOHEXANDIOL (12.98) | | | | | | | |
| UNK. ALIPHATIC (13.23) | | | | | | | |
| BENZENESULFONAMIDE (20.79) | | | | | | | |
| MIX AROMATIC SPECIES (20.76) | | | | | | | |
| UNK. ALKOXYBENZENE (15 98) | | | | | 67 J | | |
| UNK. AROMATIC AMINE (8.75) | | | | | | | |
| BENZENAMINE, 3-(TRIFLUOROMET (12.75) | | | | | | | |
| UNK. DIHYDROXY SULFONATE AROM. (23 07) | | | | | | | |
| UNK. METHOXYBENZENE (17.94) | | | | | | | |
| UNK. CYCLOALKANOL (9.43) | | | | | | | |
| UNK. PHENYLSULFONYLNAPHTAL (26.42) | | | | | | | |
| 2,4-IMIDAZOLIDINEDIONE,5,5- (29.70) | | | | | | | |
| UNK. NITRO PHENYL (24.72) | | | | | | | |
| UNK. PHENYLSULFONYLNAPHTAL (25.19) | | | | | | | |
| UNK. ALKOXYBENZENE (16.00) | | | | | | | |
| UNK. CHLORINATED AROMATIC (20.77) | | | | | | | |
| UNK. SUB. MORPHOLINE (26.75) | | | | | | | |
| UNK. SUB MORPHOLINE (24 57) | | | | | | | |
| UNK. ALKOXY ETHANOL (11 88) | | | | | | | |
| BENZENESULFONAMIDE (21.64) | | | | | | | |
| UNK IMADAZOLIDINDIONE (16 91) | | | | | | | |
| MIX UNK BENZENESULFONAMIDE (30 14) | | | | | | | |
| UNK ALKYL AMINE (8.82) | | | | | | | |
| UNK AROMATIC (26 57) | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM Midwest Sample Number | RNS GW D7DL | RNS GW S14 | RNS GW S1 | RNS GW S20 | RNS GW S20DL | RNS GW D8 | RNS GW D8DL |
| Laboratory Sample Number | S266DL | S269 | S272RE | S273 | S273DL | S274 | S274DL |
| Remarks | Dilution | | | Duplicate of RNS-GW-S17 | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| UNK TRIFLUOROMET BENZE AMINE (12.84) | 9 J | | | | | | |
| UNK TRIFLUOROMET BENZE AMINE (11 51) | | | 3 J | | | | |
| UNK. ALIPHATIC AMINE (8.82) | 8 R | | | | | | |
| BENZENESULFONAMIDE UNK CHLOR (22.98) | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 84) | | | | | | | |
| UNK. CYCLOHEXENOL (9.49) | | 5 J | | | | | |
| UNK. CYCLIC HYDROCARB/UNK SUB (12.47) | | | | | | | |
| UNK CYCLOHEXANOL (12.41) | | | | | | | |
| UNK. CYCLOHEXANOL (12.47) | | | | | | | |
| BENZENESULFONAMIDE (21.06) | | | | | | | |
| UNK. PHENYL (15 97) | | | | | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.75) | | | 31 J | | | | |
| UNK ALIPHATIC AMINE (8.76) | | | | | | | |
| UNK. ALKOXYBENZENE (16.00) | 13 J | | | | | | |
| UNK. CYCLOHEXYL (12.47) | | 3 J | | | | | |
| BENZENESULFONAMIDE (21.34) | | | 1400 J | 1100 J | | | |
| UNK. ALKOXYBENZENE (16.01) | | | 58 J | | | | |
| BENZENESULFONAMIDE , N- (PHENYL (30.11) | | | 13 J | | | | |
| UNK CHLOR NAPHTAYLENE/BIPHEN (26.38) | | | 9 J | | | | |
| UNK CYCLI ALCOHOL (9.39) | | | 3 J | | | | |
| METHANONE, DIPHENYL (21.85) | | | 2 J | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25.55) | | | | 320 J | | | |
| UNK. SULFONATED BENZENE (20.83) | | | | 190 J | | | |
| UNK. ALKOXYBENZENE (16.05) | | | | 72 J | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.82) | | | | 35 J | | | |
| UNK. ALIPHATIC AMINE (8.82) | | | | 14 J | | | |
| CHLORINATED ALKOXYBIPHENYL (26.41) | | | | 10 J | | | |
| UNK. CYCLOHEXENOL (9.50) | | | | 5 J | | | |
| 2-CYCLOHEXEN-1-ONE (10.50) | | | | 5 J | | | |
| UNK. BENZENEAMINE/UNK SUBSTIT (24.85) | | | | 4 J | | | |
| METHANONE, DIPHENYL- (21 89) | | | | 3 J | | | |
| UNK ALKOXYETHANOL (11.90) | | | | 3 J | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11.51) | | | | 3 J | | | |
| MIX BENZENESULFONAMIDE/CHLOR (21.55) | | | | | | 1700 J | |
| UNK. ALKOXYBENZENE (16 05) | | | | | | 74 J | |
| UNK. TRIFLUOROMET BENZENAMINE (12 82) | | | | | | 49 J | |
| UNK ALIPHATIC AMINE (8.82) | | | | | | 11 J | |
| UNK CHLORINATED NAPTHYLENE (26 41) | | | | | | 7 J | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | | | | | 6 J | |
| UNK ALIPHATIC (26 91) | | | | | | 5 J | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-D7DL | RNS-GW-S14 | RNS | RNS-GW-S20 | RNS-GW-S20DL | RNS-GW-D8 | RNS-GW-D8DL |
| Laboratory Sample Number | S268DL | S269 | S272Rt | S273 | S273DL | S274 | S274DL |
| Remarks | Dilution | | | Duplicate of RNS-GW-S17 | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13.05) | | | | | | 4 J | |
| METHANONE, DIPHENYL (21.90) | | | | | | 4 J | |
| UNK. CYCLOHEXENOL (9.50) | | | | | | 3 J | |
| UNK. ALIPHATIC (31.34) | | | | | | 3 J | |
| UNK BENZENEAMINE/UNK. SUBS (24.86) | | | | | | 3 J | |
| UNK TRIFLUOROMETHYL ANLINE (11.51) | | | | | | 3 J | |
| UNK. ALKOXYETHANOL (11.90) | | | | | | 3 J | |
| UNK. ALIPHATIC ACID (17.83) | | | | | | 3 J | |
| BENZENESULFONAMIDE, 4-CHLORO (23.04) | | | | | | 3 J | |
| BENZENESULFONAMIDE (20.89) | | | | | | | 2000 J |
| UNK. ALKOXYBENZENE (16.01) | | | | | | | 80 J |
| UNK. TRIFLUOROMET BENZAMINE (12.79) | | | | | | | 44 J |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. e Number | RNS-GW D17 | RNS-GW-D15 | RNS-GW D15DL | RNS-GW-S2 | RNS-GW-S2RE | RNS GW S13 | RNS GW-S13DL | RNS GW-S15 | RNS GW D14 |
| Laboratory Sample Number | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 31) | | | | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 36) | | | | | | | | | |
| 1 2 ETHANEDIOL, 1 PHENYL (17 20) | | | | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 47) | | 8 J | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 04) | | 5 R | | 7 R | | | | 2 R | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | | | | | |
| 3-BUTEN-2-ONE, 4 PHENYL- (18 14) | | | | | | | | | |
| 2 CYCLOHEXEN 1 ONE (10 42) | | | | 3 R | | 6 R | | 4 R | 4 R |
| 2-CYCLOHEXEN-1-ONE (10 49) | 4 R | 10 R | | | | | | | |
| CYCLOPENTANECARBOXALDEHYDE (8 40) | | | | | | | | | |
| 2-PROPANOL, 1,3 DICHLORO- (9 62) | | | | | | | | | |
| 4 BENZOYLMORPHOLINE (22 77) | | | | | | | | | |
| BENYOYL GLYCINE+UNKNOWN (23 58) | | | | | | | | | |
| BENZAMIDE (18 31) | | | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 46) | | | | | | | | | |
| BENZAMIDE (18 98) | | | | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25 55) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 86) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 90) | | | | | | | | | |
| BENZENESULFONAMIDE (20 66) | | | | | | | | 5 J | 31 J |
| BENZENESULFONAMIDE (20 70) | | | 740 J | | | | | | |
| BENZENESULFONAMIDE (20 74) | | | | | | | | | |
| BENZENESULFONAMIDE (20 78) | | | | | | | | | |
| BENZENESULFONAMIDE (20 86) | | | | | | | 720 J | | |
| BENZENESULFONAMIDE (20 91) | | | | | | | | | |
| BENZENESULFONAMIDE (21 11) | | | | | | 560 J | | | |
| BENZENESULFONAMIDE (21 29) | | | | | | | | | |
| BENZENESULFONAMIDE (21 34) | | | | | 2600 | | | | |
| BENZENESULFONAMIDE (21 47) | | | | | | | | | |
| BENZENESULFONAMIDE (21 54) | 1700 J | | | | | | | | |
| BENZENESULFONAMIDE (21 59) | | | | 2500 J | | | | | |
| BENZENESULFONAMIDE (21 63) | | | | | | | | | |
| BENZENESULFONAMIDE (21 68) | | | | | | | | | |
| BENZENESULFONAMIDE, 2-METHYL (21 78) | | | | | 4 J | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 38) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 98) | | | | 21 J | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 30) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4 METHYL (22 28) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 33) | | | | 2 J | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 46) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S umber | RNS-GW D17 | RNS-GW D15 | RNS-GW-D | NS GW S2 | RNS GW S2RE | RNS-GW-S13 | RNS GW-S13DL | RNS GW S | GW-D14 |
| Laboratory Sample ber | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 79) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 84) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL+UNK (23 06) | | | | | | | | | |
| BENZENESULFONAMIDE, N-PHENYL (30 08) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMATIC (20 76) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK NITROAROM (20 92) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 01) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 83) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMA (21 56) | | | | | | | | | |
| BENZENESULFONAMINDE+UNK (21 59) | | | | | | | | | |
| BENZOIC ACID (14 72) | | | | | | | | | |
| BENZOIC ACID (14 77) | | | | | | | | | |
| BENZOIC ACID (14 84) | | | | | | | 62 J | | |
| BENZOIC ACID (15 03) | | | | | | 89 J | | | |
| BENZOIC ACID (15 56) | | | | | | | | | |
| BENZOIC ACID (15.90) | | | | | | | | | |
| BENZOIC ACID (18 30) | | | | | | | | | |
| BENZOIC ACID (18 42) | | | | | | | | | |
| BENZOIC ACID + MIX UNKNOWN (18 46) | | | | | | | | | |
| BENZOIC ACID + UNKNOWN (15 29) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (17 53) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 01) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 25) | | | | | | | | | |
| BENZOIC ACID + UNKCHLORPHENYE(16 20) | | | | | | | | | |
| BENZOIC ACID , 2-BROMO- (18 80) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (18 96) | | | | | | 32 J | | | |
| BENZOIC ACID, 2-BROMO- (19 04) | | | | | | 18 J | | | |
| BENZOIC ACID, 2 BROMO- (19 80) | | | | | | | | | |
| BENZONITRILE (11 57) | | | | | | | | | |
| BENZONITRILE (11 85) | | | | | | | | | |
| BENZONITROLE (11 63) | | | | | | | | | |
| BENZOPHENONE (21 87) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (18 79) | | | | | | 5 J | | | |
| BROMOBENZOIC ACID+UNKNOWN (19 86) | | | | | | | | | |
| CARBOXYLIC ACID (17 82) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE (23 04) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 27) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 34) | | | | | | | | | |
| DECANOIC ACID (17 80) | | | | | | | | | 13 J |
| DIBROMOBENZOIC ACID (22 74) | | | | | | | | | |
| 5,5-DIPH-2,4-IMIDAZOLIDINEDIONE (29 74) | | | | | | | | | |
| DIPHENYLMETHANONE (22 04) | | | | | | | | | |
| DIPHENYLMETHANONE+UNK (22 03) | | | | | | | | | |

| EXTRACTABLE | SANIC ANALYSIS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest | Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW- | NS-GW-S2 | RNS-GW-S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW | GW D14 |
| Laboratory San | ber | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | | Dilution | | Reanalysis | | Dilution | | |
| Units | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | | |
| DODECANAMIDE, N,N-BIS(2-HYDR) (20 51) | | | | | | | | | | |
| ETHANEDIONE, DIPHENYL- (24 06) | | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 17) | | | | | | | 3 J | | | |
| ETHANONE, 1-PHENYL- (13 21) | | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 26) | | | | | | | | | | |
| ETHYLMETHYLBENZENESULFONAMID (22 90) | | | | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 90) | | 5 J | | | | | | | | |
| METHANONE, DIPHENYL- (21 85) | | | | | | 2 J | | | | |
| METHYLSULFONYLBENZENE (18 52) | | 3 J | | 3 J | | 3 J | | | | |
| 1-PHENYLETHANONE + UNK (13 14) | | | | | | | | | | |
| MIX ALIPHATIC UNKOWNS (20 78) | | | | | | | | | | |
| MIX ANILINE + CHLOROALIPHATIC (20 72) | | | | | | | | | | |
| MIX AROMATIC + UNKNOWNS (18 16) | | | | | | | | | | |
| MIX AROMATIC UNKNOWNS (18 79) | | | | | | | | | | |
| MIX BENYOYL+HYDROXYBENZOIC A (18 24) | | | | | | | | | | |
| MIX BENZOIC ACID+UNK (19 12) | | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (14 82) | | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (16 32) | | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (17 44) | | | | | | | | | | |
| MIX BENZOIC ACID+UNK ALIPHATIC(18 56) | | | | | | | | | | |
| MIX BENZOYL+UNKNOWN (23 73) | | | | | | | | | | |
| MIX BENZOYL+UNK ALKOYBENZENE (15 78) | | | | | | | | | | |
| MIX BENZSULFONAMIDE/UNKNOWN (20 98 | | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (13 88) | | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (8 20) | | | | | | | | | | |
| MIX BROMOBENZOIC+NITROPHENET (19 94) | | | | | | | | | | |
| MIX CHLORINATED ALIPHATIC (12 83) | | | | | | | | | | |
| MIX CHLORINATED AROMATIC+UNK(26 35) | | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (17 99) | | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (19 06) | | | | | | | | | | |
| MIX CYANOBENZENE+UNKNOWNS (28 31) | | | | | | | | | | |
| MIX NETHYL4METHYLBENZULFA+UN(22 96) | | | | | | | | | | |
| MIX NITROBENZOIC ACID+CHLBENS(21 10) | | | | | | | | | | |
| MIX SUB BENZENESULFONAMIDE&SILA (30 09) | | | | | | | | | | |
| MIX SULFONATED BENZENE+UNK (21 46) | | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (30 26) | | 4 J | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (31 26) | | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (32 22) | | | | | | | | | | 2 J |
| MIX UNK ALIPHATIC & SILANE (34 04) | | | | | | | | | | |
| MIX UNK ALIPHATIC (20 77) | | | | | | | | | 2 R | |
| MIX UNK ALIPHATIC HYDRO&SILANE (31 19) | | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (32 23) | | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 39) | | | | | | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S e Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D1 | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S15 | RNS-GW-D14 |
| Laboratory Sample Number | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 44) | | | | | | | | | 3 J |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 82) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 87) | | | | | | | | | |
| MIX UNK ALIPHATICS (13 95) | | | | | | | | | |
| MIX UNK ALIPHATICS (16 89) | | | | | | | | | |
| MIX UNK ALKOXYBENZENE+UNK (16 10) | | | | 12 J | | | | | |
| MIX UNK ALKYLBENZENE (17 98) | | | | | | | | | |
| MIX UNK AROMATICS (20 23) | | | | | | | | | |
| MIX UNK AROMATIC (20 67) | | | | | | | | | |
| MIX UNK AROMATIC (20 76) | | 3 J | | | | | | | |
| MIX UNK AROMATIC (20 88) | | | | | | | | | |
| MIX UNK AROMATIC (21 13) | | | | | | | | | |
| MIX UNK AROMATIC (23 05) | | | | | | | | | |
| MIX UNK AROMATIC (25 63) | | | | | | | | | |
| MIX UNK AROMATIC +UNK (30 92) | | | | | | | | | |
| MIX UNK AROMATIC+UNK ALIPHAT | | 6 J | | | | | | | |
| MIX UNK AROMATICS (27 06) | | | | | | | | | |
| MIX UNK AROMATICS (37 26) | | | | | | | | | |
| MIX UNK BENZOIC ACID+CHLOROP (15 37) | | | | | | | | | |
| MIX UNK BENZYL ALCOHOL (18 67) | | | | | | | | | |
| MIX UNK BROMOBENZOIC ACID (19 24) | | | | | | | | | |
| MIX UNK DICHLOROPHENOL+BENZO (18 72) | | | | | | | | | |
| MIX UNK FLUORINATED AROMATIC (23 11) | | | | | | | | | |
| MIX UNK HYDROCARB+CHLOROHYD (28 50) | | 2 J | | | | | | | |
| MIX UNK NITROBENZENEAMINE+UNK (22 52) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 43) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 60) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 71) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 95) | | | | | | | | | |
| NITROAROMITIC UNKNOWNS | | | | | | | | | |
| NITROBENZEN+BENZOIC ACID MIX (16 41) | | | | | | | | | |
| 1,4-PENTADIENE-3-ONE,1,5-DIPHEN (29 39) | | | | | | | | | |
| PHENYLETHANONE (13 23) | | | | | | | | | |
| PHENYLETHANONE (13 33) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 61) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 66) | | | | | | | | | |
| 2-PROPEN-1-ONE,1-(NITROPHENYL) (30 03) | | | | | | | | | |
| SULFUR, MOL (S8) (25 79) | | | | | | | | | |
| 1,1-SULFONYLBISBENZNE (25 22) | | | | | 600 J | | | | |
| TRIFLUOROMET ANILINE SUB UNK (12 82) | | | | | | | | | |
| TRIFLUOROMETBENZENAMINE+UNK (12 88) | | | | | | | | | |
| UNK ACETYL (18 78) | 9 J | | | | | | | | |
| UNK ACID (16 35) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S[illegible] umber | RNS GW D17 | RNS-GW-D15 | RNS-GW-D | NS-GW-S2 | RNS GW S2RE | RNS GW S13 | RNS GW S13DL | RNS-GW-S | GW D14 |
| Laboratory Sample [illegible] ber | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK ALIPHATIC (9 48) | | | | | | | | | |
| UNK ALIPHATIC (12 23) | | | | | | | | | |
| UNK ALIPHATIC (12 33) | | | | | | | | | |
| UNK ALIPHATIC (16 32) | | | | | | | | | |
| UNK ALIPHATIC (19 73) | | | | 3 J | | | | | 3 J |
| UNK ALIPHATIC (20 66) | | | | 6 J | | | | | |
| UNK ALIPHATIC (26 84) | | | | | | | | | |
| UNK ALIPHATIC (9 62) | | | | | | | | | 3 R |
| UNK ALIPHATIC + SILANE (31 30) | | | | | | | | | |
| UNK ALIPHATIC ACID (19 63) | | | | | | | | | |
| UNK ALIPHATIC ACID (20 50) | | | | 2 J | | | | | |
| UNK ALIPHATIC ALCOHOL (11 85) | | | | | | | | | 7 J |
| UNK ALIPHATIC AMINE (8 78) | | | | 3 R | | | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | 7 R | | 5 R | 6 R |
| UNK ALIPHATIC HYDROCARB (8 34) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 23) | 5 J | 23 J | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 35) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 44) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (20 52) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (27 60) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (28 52) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (30 24) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (31 15) | | | | | | | | | 2 J |
| UNK ALIPHATIC HYDROCARB (31 19) | | | | | | | | | 3 J |
| UNK ALIPHATIC HYDROCARB (32 19) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (32 23) | | | | | | | | | 3 J |
| UNK ALIPHATIC HYDROCARB (33 44) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (34 81) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (34 87) | | | | | | | | | 4 J |
| UNK ALIPHATIC HYDRO+SILANE (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (30 27) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (31 18) | | | | | | | | | |
| UNK ALIPHATIC POLYCHLORINAT (32 23) | | | | | | | | | |
| UNK ALKOXYBENZENE (15 69) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 00) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 04) | | | | 14 J | 17 J | 26 J | 27 J | | |
| UNK ALKOXYBENZENE (16 09) | 13 J | 240 J | 310 J | | | | | | |
| UNK ALKOXYBENZENE (16 18) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 31) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 93) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 88) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 89) | 3 R | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S. Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D1 | RNS-GW-S2 | RNS GW S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS GW S15 | RNS GW D14 |
| Laboratory Sample Number | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/l | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK ALKOXY SUB ALIPHATIC ALC (15 19) | | 5 J | | | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | | | | | |
| UNK ALKYLBENZENE (8 89) | | | | | | | | | |
| UNK ALKYLBENZENE (9 16) | | | | | | | | | |
| UNK ALKYLBENZENE ALKOXY SUB (24 76) | | 4 J | | | | | | | |
| UNK ALKYLPYRIDINE (12 25) | | | | 2 J | | | | | |
| UNK AMINE (12 26) | | | | | | | | | |
| UNK AMINO BENZOIC ACID (20 50) | | 3 J | | | | | | | |
| UNK AMINOPHENYLETHANONE (17 19) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (19 95) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (20 02) | | | | | | | | | |
| UNK AROMATIC (17 02) | | | | | | | | | |
| UNK AROMATIC (17 25) | | | | | | | | | |
| UNK AROMATIC (17 94) | | | | | | | | | |
| UNK AROMATIC (17 99) | | | | | | | | | |
| UNK AROMATIC (18 50) | | | | | | | | | |
| UNK AROMATIC (22 17) | | | | | | | | | |
| UNK AROMATIC (23 14) | | | | | | | | | |
| UNK AROMATIC (23 31) | | | | | | | | | |
| UNK AROMATIC (25 24) | | | | | | | | | |
| UNK AROMATIC (26 49) | | | | | | | | | |
| UNK AROMATIC (26 55) | | | | | | | | | |
| UNK AROMATIC (38 55) | | 5 J | | | | | | | |
| UNK AROMATIC (40 19) | | | | | | | | | |
| UNK AROMATIC (41 06) | | | | | | | | | |
| UNK AROMATIC ACID (16 33) | | | | | | | | | |
| UNK AROMATIC ALCOHOL (17 14) | | | | | | | | | |
| UNK AROMATIC AMINE (8 74) | | | | | | | | | |
| UNK AROMATIC AMINE (24 86) | | | | | | | | | |
| UNK AROMATIC AMINE (25 31) | | 6 J | | | | | | | |
| UNK BENZENE METHANOL (16 58) | | | | | | | | | |
| UNK BENZENE SULFONATED (21 49) | | | | | | | 43 J | | |
| UNK BENZENEDIOL (16 44) | | | | | 3 J | | | | |
| UNK BENZENEAMINE (22 50) | | | | | 4J | | | | |
| UNK BENZENESULFONAMIDE+AROMA (21 35) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+NITROBEN (21 02) | | 500 J | | | | | | | |
| UNK BENZENESULFONAMIDE+UNKOWN (21 10) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (35 01) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (33 35) | | | | | | | | | |
| UNK BENZOIC ACID (18 67) | | | | | | | | | |
| UNK BENZOIC ACID (18 00) | | | | | | | | | |
| UNK BENZOIC ACID (18 97) | | | | | | | | | |
| UNK BENZOIC ACID (15 50) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D | NS-GW S2 | RNS-GW S2RE | RNS-GW S13 | RNS-GW S13DL | RNS-GW-S | GW D14 |
| Laboratory Samp. ber | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK BENZOYL (16 23) | | | | | | | | | |
| UNK BENZOYL (21 86) | | | | | | | | | |
| UNK BENZOYL (23 62) | | | | 5 J | | | | | |
| UNK BENZOYL (23 76) | | | | | | | | | |
| UNK BENZOYL (24 10) | | | | | | | | | |
| UNK BENZOYL + UNK (15 13) | | | | | | | | | |
| UNK BENZYL ALCOHOL (18 67) | | | | | | | | | |
| UNK BIPHENYL (25 69) | | | | | | | | | |
| UNK BIPHENYL (26 83) | | | | | | | | | |
| UNK BIPHENYL SUBSTITUTED (26 80) | | | | | | | | | |
| UNK BIPHENYLOL (20 27) | | | | | | | | | |
| UNK BIPHENYLOL (20 33) | | | | | | | | | |
| UNK BIPHENYLOL (20 42) | | | | | | | | | |
| UNK BIPHENYLOL (20 55) | | 16 J | | | | | | | |
| UNK BIPHENYLOL (20 67) | | | | | | | | | |
| UNK BIPHENYLOL (26 73) | | | | | | | | | |
| UNK BIPHENYLOL (26 85) | | | | | | | | | |
| UNK BROMINATED ALIPHATIC (11 99) | | | | | | | | | |
| UNK BROMOALIPHATIC (12 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (13 96) | | | | | | | | | |
| UNK BROMOALIPHATIC (22 30) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 22) | | | | | | | | | |
| UNK BROMOALKYL (12 11) | | | | | | | | | |
| UNK BROMOAROMATIC (16 83) | | | | | | | | | |
| UNK BROMOAROMATIC (20 21) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 79) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 83) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 90) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 96) | | | | | | | 16 J | | |
| UNK BROMOBENZOIC ACID (19 10) | | | | | | | 18 J | | |
| UNK BROMOBENZOIC ACID (19 19) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 25) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 31) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 38) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 65) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 72) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 84) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (20 24) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (20 37) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK BROMOBENZOIC ACID+AROMATIC (20 34) | | | | | | | | | |
| UNK BROMODICHLORBENZENE (16 83) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S[illegible] Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D1[illegible] | RNS-GW S2 | RNS-GW-S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S15 | RNS-GW-D14 |
| Laboratory Sample Number | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK CARBOXYLIC ACID (17 81) | | | | | | | | | |
| UNK CHLORINATED ALKLBENZENE (16 61) | | | | | | | | | |
| UNK CHLORINATED ALIPHATIC (28 51) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (19 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (37 31) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 83) | | | 540 J | | | | | | |
| UNK CHLORINATED BIPHENYLOL (22 79) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (26 49) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (29 54) | | | | | | | | | |
| UNK CHLORINATEDCYCLOHEXANONE (12 92) | | | | | | | | | |
| UNK CHLORINATED NAPTHYLENE (26 38) | | | | | | | | | |
| UNK CHLOROALKANOL (9 82) | | 32 J | | | | | | | |
| UNK CHLOROALKYL-AROMATIC (20 79) | | | | | | | | | |
| UNK CHLOROAROMATIC (36 07) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 86) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 91) | 3 J | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 96) | | | | | 12 J | 14 J | | | |
| UNK CHLOROBENZOIC ACID (17 99) | | | | 2 J | | | | | |
| UNK CHLOROBENZOIC ACID (18 76) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18 85) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26 39) | | | | | | | | | |
| UNK CHLOROBIPHENYLOL (22 79) | | | | | | | | | |
| UNK CHLOROBIPHENYLOL (28 51) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26 52) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (28 53) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANOL (12 48) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANONE (12 97) | | | | | | | | | |
| UNK CHLOROETHENYLBENZENE (13 28) | | | | | | | | | |
| UNK CHLORONITROAROMATIC (36 06) | | | | | | | | | |
| UNK CYCLIC ALCOHOL (9 39) | | | | | | | | | |
| UNK CYCLIC ALIPHATIC (15 90) | | | | | | | | | |
| UNK CYCLOALKANOL (9 47) | | | | | 10 J | | | | |
| UNK CYCLOHEXANE (13 22) | | | | | | | | | |
| UNK CYCLOHEXANOL (9 42) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 43) | | 7 R | | | | 3 R | | | |
| UNK CYCLOHEXANOL (12 47) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 52) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 45) | | 18 R | | 8 R | | | | | |
| UNK CYCLOHEXENOL (9 49) | | | | | | | | 3 R | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | 2 J | | | | | | | | |
| UNK CYCLOHEXYL (12 47) | | | | | | | | | |
| UNK DIBROMOALIPHATIC (13 81) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S umber | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D | NS-GW-S2 | RNS-GW-S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S | -GW-D14 |
| Laboratory Sampl ber | S275 | S2 6 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/l | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK DIBROMOBENZENE (22 82) | | | | | | | | | |
| UNK DIBROMOBENZENE (22 75) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 93) | | | | | | | | | |
| UNK DIBROMOAROMATIC (22 90) | | | | | | | | | |
| UNK DICHLOROALKANOL (9 67) | | | | | | | | | |
| UNK DICHLOROAROMATIC (28 54) | | | | | | | | | |
| UNK DICHLOROBIPHENYL (24 80) | | | | | | | | | |
| UNK DIMETHYLPYRIDINE (12 31) | | | | | | | | | |
| UNK HALOGENATED ALIPHATIC (13 64) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (16 78) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (17 01) | 3 J | | | | 3 J | | | | |
| UNK METHBENZENESULFONIC ACID (22 81) | | | | | | | | | |
| UNK MIX BENZENESULFONYL (21 05) | | | | | | | | | |
| UNK MIX TRIMETH PHENOL/AROMA (20 85) | | 200 | | | | | | | |
| UNK N-PHENYLSULFONYL/BENSULF (30 18) | | 300 J | | | | | | | |
| UNK NITROANILINE (23 16) | | | | | | | | | |
| UNK NITROANILINE (23 30) | | | | | | | | | |
| UNK NITROAROMATIC (20 18) | | | | | | | | | |
| UNK NITROAROMATIC (20 23) | | | | | | | | | |
| UNK NITROAROMATIC (22 06) | | | | | | | | | |
| UNK NITROAROMATIC (22 15) | | | | | | | | | |
| UNK NITROAROMATIC (22 21) | | | | | | | | | |
| UNK NITROAROMATIC (22 30) | | | | | | | | | |
| UNK NITROAROMATIC (22 56) | | | | | | | | | |
| UNK NITROAROMATIC (22 44) | | | | | | | | | |
| UNK NITROBENZENE (22 11) | | | | | | | | | |
| UNK NITROBENZENE (22 40) | | | | | | | | | |
| UNK NITROBENZENEAMINE (22 21) | | | | | | | | | |
| UNK NITROFLUOROBENZENE (12 85) | | | | | | | | | |
| UNK NITROGEN CONTAINING (12 23) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLIC (12 30) | | | | | | 2 J | | | |
| UNK NITROGEN HETEROCYCLE (15 78) | | | | | | | | | |
| UNK METHYLNITROBENZENE AMINE (23 32) | | | | | | | | | |
| UNK PHENYLSULFONYLBENXSULFON (30 20) | | | | | | | | | |
| UNK POLYHALOGENATED ALIPHATIC (13 93) | | | | | | | | | |
| UNK SUBST MORPHOLINE (26 75) | | | | 280 J | | | | | |
| UNK SUBST BENZENEMETHANOL (16 22) | | | | | | | | | |
| UNK SUBST BENZENESULFONAMIDE (21 89) | | | | | | | | | |
| UNK SUBST BENZYL ALCOHOL (17 26) | | | | | | | | | |
| UNK SUBST BIPHENYL (26 86) | | | | | | | | | |
| UNK SUBST BROMOBENZENE (29 52) | | | | | | | | | |
| UNK SUBST BROMOBENZOIC ACID (19 04) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. Number | RNS-GW-D17 | RNS-GW-D15 | RNS-GW-D1 | RNS-GW-S2 | RNS-GW-S2RE | RNS-GW-S13 | RNS-GW-S13DL | RNS-GW-S15 | RNS-GW-D14 |
| Laboratory Sample Number | S275 | S276 | S276DL | S277 | S277RE | S278 | S278DL | S279 | S280 |
| Remarks | | | Dilution | | Reanalysis | | Dilution | | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK. SUBST CHLORINATED BENZENE (36.02) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.95) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.50) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.73) | | | | | | | | | |
| UNK. SUBST PHENYLBUTENONE (17.96) | | | | | | | | | |
| UNK. SULFONATED AROMATIC (25.89) | | | | | | 10 J | | | |
| UNK. SULFONATED BENZENE (30.09) | | | | | | | | | |
| UNK. SULFONYL BENZENE (18.51) | | | | | | | | | |
| UNK. SULFONYLBENZENE (25.66) | | | | | 34 J | | | | |
| UNK. TRICHLOROALIPHATIC (10.23) | | | | | | | | | |
| UNK. TRICHLOROALIPHATIC (20.66) | | | | | | | | | |
| UNK. TRIFLUOROMET ANILINE (12.79) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZEAMINE (12.83) | | | | | | | 19J | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.82) | | 240 J | 280 J | | | | | | |
| UNK. TRIFLUOROMETBENZEAMINE (11.48) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZENAMINE (12.79) | | 26 J | | | | 4 J | | | |
| UNK. TRIFLUOROMETHBENZENAMINE (12.78) | | | | | | | | | |
| UNK. TRIFLUOROMETHYL ANLINE (12.84) | | | | | | 21 J | | | |
| UNK. TRIFLUOROMETHYLBENZENAM (11.49) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest Number | RNS GW D14DL | RNS GW D19 | RNS-GW | NS GW S7 | RNS GW D11 | RNS GW D11DL | RNS GW D13 | RNS GW I | GW D12DL |
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 31) | | | | | 14 J | | | | |
| 1,1'-BIPHENYL-2-OL (20 36) | | | | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 20) | | | | | | | | 78 J | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 47) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | | | | 8 R | | |
| 1,2-CYCLOHEXANDIOL (13 04) | | | | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | | | | | |
| 3-BUTEN-2-ONE, 4-PHENYL- (18 14) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 42) | | 4 R | | 3 R | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | | | | | | | | |
| CYCLOPENTANECARBOXALDEHYDE (8 40) | | | | | | | | | |
| 2-PROPANOL, 1,3-DICHLORO- (9 62) | | | | | | | | | |
| 4-BENZOYLMORPHOLINE (22 77) | | | | | | | | | |
| BENYOYL GLYCINE+UNKNOWN (23 58) | | | | | | | | | |
| BENZAMIDE (18 31) | | | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 46) | | | | | 13 J | | | | |
| BENZAMIDE (18 98) | | | | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25 55) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 86) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 90) | | | | | | | | | |
| BENZENESULFONAMIDE (20 66) | 19 J | | 11 J | | | | | | |
| BENZENESULFONAMIDE (20 70) | | 30 J | | | | | | | |
| BENZENESULFONAMIDE (20 74) | | | | | | | | | |
| BENZENESULFONAMIDE (20 78) | | | | 92 J | | | | | |
| BENZENESULFONAMIDE (20 86) | | | | | | | | | |
| BENZENESULFONAMIDE (20 91) | | | | | | | | | |
| BENZENESULFONAMIDE (21 11) | | | | | | | | | |
| BENZENESULFONAMIDE (21 29) | | | | | | | | | |
| BENZENESULFONAMIDE (21 34) | | | | | | | | | |
| BENZENESULFONAMIDE (21 47) | | | | | | | | | |
| BENZENESULFONAMIDE (21 54) | | | | | | | | | |
| BENZENESULFONAMIDE (21 59) | | | | | | | | | |
| BENZENESULFONAMIDE (21 63) | | | | | | | | | |
| BENZENESULFONAMIDE (21 68) | | | | | | | | | |
| BENZENESULFONAMIDE, 2-METHYL (21 78) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 38) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 98) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 30) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 28) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 33) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 46) | | | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest S[illegible] Number | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW-D1[illegible] | RNS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW D13 | RNS-GW D12 | RNS GW-D12DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/l | µg/l | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW D14 | Duplicate of RNS-GW-D14 | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 79) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 84) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL+UNK (23 06) | | | | | | | | | |
| BENZENESULFONAMIDE, N-PHENYL (30 08) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMATIC (20 76) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK NITROAROM (20 92) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 01) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 83) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMA (21 56) | | | | | | | | | |
| BENZENESULFONAMINDE+UNK (21 59) | | | | | | | | | |
| BENZOIC ACID (14 72) | | | | | | | | | |
| BENZOIC ACID (14 77) | | | | | | | 8 J | | |
| BENZOIC ACID (14 84) | | | | | | | | | |
| BENZOIC ACID (15 03) | | | | | | | | 51 J | |
| BENZOIC ACID (15 56) | | | | | | | | | |
| BENZOIC ACID (15 90) | | | | | | | | | |
| BENZOIC ACID (18 30) | | | | | | | | | |
| BENZOIC ACID (18 42) | | | | | | | | | |
| BENZOIC ACID + MIX UNKNOWN (18 46) | | | | | | | | | |
| BENZOIC ACID + UNKNOWN (15 29) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (17 53) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 01) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 25) | | | | | | | | | |
| BENZOIC ACID + UNKCHLORPHENYE(16 20) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (18 80) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (18 96) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (19 04) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (19 80) | | | | | | | | | |
| BENZONITRILE (11 57) | | | | | | | | | |
| BENZONITRILE (11 85) | | | | | | | | | |
| BENZONITROLE (11 63) | | | | | | | | | |
| BENZOPHENONE (21 87) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (18 79) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (19 86) | | | | | | | | | |
| CARBOXYLIC ACID (17 82) | | 9 J | | | | | | | |
| CHLOROBENZENESULFONAMIDE (23 04) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 27) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 34) | | | | | | | | | |
| DECANOIC ACID (17 80) | | | | | | | | | |
| DIBROMOBENZOIC ACID (22 74) | | | | | | | | | |
| 5,5-DIPH-2,4 IMIDAZOLIDINEDIONE (29 74) | | | | | | | | | |
| DIPHENYLMETHANONE (22 04) | | | | | | | | | |
| DIPHENYLMETHANONE+UNK (22 03) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S ... mber | RNS GW-D14DL | RNS-GW-D19 | RNS-GW-D | NS-GW-S7 | RNS GW D11 | RNS-GW-D11DL | RNS GW D13 | RNS GW D. | GW D12DL |
| Laboratory Sample ... ber | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| DODECANAMIDE, N,N-BIS(2-HYDR) (20 51) | 4 J | | | | | | | | |
| ETHANEDIONE, DIPHENYL- (24 06) | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 17) | | | | | 24 J | | | | |
| ETHANONE, 1-PHENYL- (13 21) | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 26) | | | | | | | | 34 J | |
| ETHYLMETHYLBENZENESULFONAMID (22 90) | | | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 90) | | | | | | | | | |
| METHANONE, DIPHENYL- (21 85) | | | | | | | | 57 J | |
| METHYLSULFONYLBENZENE (18 52) | | | | | | | | | |
| 1-PHENYLETHANONE + UNK. (13 14) | | | | | | | | | |
| MIX ALIPHATIC UNKOWNS (20 78) | | | | | | | | | |
| MIX ANILINE + CHLOROALIPHATIC (20 72) | | | | | | | | | |
| MIX AROMATIC + UNKNOWNS (18 16) | | | | | | | | | |
| MIX AROMATIC UNKNOWNS (18 79) | | | | | | | | | |
| MIX BENYOYL+HYDROXYBENZOIC A (18.24) | | | | | | | | | |
| MIX BENZOIC ACID+UNK (19 12) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (14 82) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (16 32) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (17 44) | | | | | | | | | |
| MIX BENZOIC ACID+UNK ALIPHATIC(18 56) | | | | | | | | | |
| MIX BENZOYL+UNKNOWN (23 73) | | | | | | | | | |
| MIX BENZOYL+UNK ALKOYBENZENE (15 78) | | | | | | | | | |
| MIX BENZSULFONAMIDE/UNKNOWN (20 98 | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (13 88) | | | | | 96 J | | | | |
| MIX BROMOALKYL+UNKNOWNS (8 20) | | | | | | | | | |
| MIX BROMOBENZOIC+NITROPHENET (19 94) | | | | | | | | | |
| MIX CHLORINATED ALIPHATIC (12 83) | | | | | | | | | |
| MIX CHLORINATED AROMATIC+UNK(26 35) | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (17 99) | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (19 06) | | | | | | | | | |
| MIX CYANOBENZENE+UNKNOWNS (28 31) | | | | | | | | | |
| MIX NETHYL4METHYLBENZULFA+UN(22 96) | | | | | | | | | |
| MIX NITROBENZOIC ACID+CHLBENS(21 10) | | | | | | | | | |
| MIX SUB BENZENESULFONAMIDE&SILA (30 09) | | | | | | | | | |
| MIX SULFONATED BENZENE+UNK (21 46) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (30 26) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (31 26) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (32 22) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (34 04) | | | | | | | | | |
| MIX UNK ALIPHATIC (20 77) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (31 19) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (32 23) | | 3 J | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 39) | | 3J | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. Number | RNS GW D14DL | RNS-GW-D19 | RNS-GW-D | RNS-GW S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS GW-D13 | RNS GW D12 | RNS-GW D12DL |
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 44) | | | | | 6 J | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 82) | | 3J | | | | | 5 J | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 87) | | | | | | | 2 J | | |
| MIX UNK ALIPHATICS (13 95) | | 4J | | | | | | | |
| MIX UNK ALIPHATICS (16 89) | | | | | | | | | |
| MIX UNK ALKOXYBENZENE+UNK (16 10) | | | | | | | | | |
| MIX UNK ALKYLBENZENE (17 98) | | | | | | | | | |
| MIX UNK AROMATICS (20 23) | | | | | | | | | |
| MIX UNK AROMATIC (20 67) | | | | | | | | | |
| MIX UNK AROMATIC (20 76) | | | | | | | | | |
| MIX UNK AROMATIC (20 88) | | | | | | 340 J | | | |
| MIX UNK AROMATIC (21 13) | | | | | | | | | |
| MIX UNK AROMATIC (23 05) | | | | | | | | | |
| MIX UNK AROMATIC (25 63) | | | | | | | | | |
| MIX UNK AROMATIC +UNK (30 92) | | | | | | | | | |
| MIX UNK AROMATIC+UNK ALIPHAT | | | | | | | | | |
| MIX UNK AROMATICS (27 06) | | | | | 180 J | | | | |
| MIX UNK AROMATICS (37 26) | | | | | | | | 39 J | |
| MIX UNK BENZOIC ACID+CHLOROP (15 37) | | | | | | | | 33 J | |
| MIX UNK BENZYL ALCOHOL (18 67) | | | | | | | | | |
| MIX UNK BROMOBENZOIC ACID (19 24) | | | | | | | | | |
| MIX UNK DICHLOROPHENOL+BENZO (18 72) | | | | | | | | 28 J | |
| MIX UNK FLUORINATED AROMATIC (23 11) | | | | | | | | | |
| MIX UNK HYDROCARB+CHLOROHYD (28 50) | | | | | | | | | |
| MIX UNK NITROBENZENEAMINE+UNK (22 52) | | | | | 20 J | | | | |
| MIXTURE UNKNOWNS (11 43) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 60) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 71) | | | | | | | | 51 J | |
| MIXTURE UNKNOWNS (13 95) | | | | | | | | | |
| NITROAROMITIC UNKNOWNS | | | | | | | | | |
| NITROBENZEN+BENZOIC ACID MIX (16 41) | | | | | | | | | |
| 1,4-PENTADIENE-3-ONE,1,5-DIPHEN (29 39) | | | | | | | | | |
| PHENYLETHANONE (13 23) | | | | | | | | | |
| PHENYLETHANONE (13 33) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 61) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 66) | | | | | 28 J | | | | |
| 2-PROPEN-1-ONE,1-(NITROPHENYL) (30 03) | | | | | | | | 64 J | |
| SULFUR, MOL (S8) (25 79) | | | | | | | | | |
| 1,1-SULFONYLBISBENZNE (25 22) | | | | | | | | | |
| TRIFLUOROMET ANILINE SUB UNK (12 82) | | | | | | | | | |
| TRIFLUOROMETBENZENAMINE+UNK (12 88) | | | | | | | | | |
| UNK ACETYL (18 78) | | | | | | | | | |
| UNK ACID (16 35) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Number | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW- | RNS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D13 | RNS-GW- | -GW-D12DL |
| Laboratory Sam ber | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK ALIPHATIC (9 48) | | | | | | | | | |
| UNK ALIPHATIC (12 23) | | | | | | | | | |
| UNK ALIPHATIC (12 33) | | | | | | | | | |
| UNK ALIPHATIC (16 32) | | | | | | | | | |
| UNK ALIPHATIC (19 73) | 4 J | | | | | | | | |
| UNK ALIPHATIC (20 66) | | | | | | | | | |
| UNK ALIPHATIC (26 84) | | | | | | | | | |
| UNK ALIPHATIC (9 62) | | 3 J | | | | | | | |
| UNK ALIPHATIC + SILANE (31 30) | | | | | | | | | |
| UNK ALIPHATIC ACID (19 63) | | 3 J | | | | | | | |
| UNK ALIPHATIC ACID (20 50) | | | | | | | | | |
| UNK ALIPHATIC ALCOHOL (11 85) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 78) | | | | | | | 13 R | | |
| UNK ALIPHATIC AMINE (8 82) | 6 R | 6 R | | | 6 R | | | | |
| UNK ALIPHATIC HYDROCARB (8 34) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 23) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 35) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 44) | | 6J | | | | | | | |
| UNK ALIPHATIC HYDROCARB (20 52) | | | | | | | 2 J | | |
| UNK ALIPHATIC HYDROCARB (27 60) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (28 52) | | | | 8 J | | | 2 J | | |
| UNK ALIPHATIC HYDROCARB (29 41) | | | | 22 J | | | 6 J | | |
| UNK ALIPHATIC HYDROCARB (30 24) | | | | 36 R | 20 R | | 10 R | | |
| UNK ALIPHATIC HYDROCARB (31 15) | | | | 38 J | 22 J | | 10 J | | |
| UNK ALIPHATIC HYDROCARB (31 19) | | | | | 17 J | | 16 J | | |
| UNK ALIPHATIC HYDROCARB (32 19) | | | | 32 J | | | 10 J | | |
| UNK ALIPHATIC HYDROCARB (32 23) | | | | | 11 J | | | | |
| UNK ALIPHATIC HYDROCARB (33 44) | | | | 20 J | | | | | |
| UNK ALIPHATIC HYDROCARB (34 81) | | | | 12 J | | | | | |
| UNK ALIPHATIC HYDROCARB (34 87) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (30 27) | | | | | | 2 J | | | |
| UNK ALIPHATIC HYDRO+SILANE (31 18) | | | | 8 J | | | | | |
| UNK ALIPHATIC POLYCHLORINAT (32 23) | | | | | | | | | |
| UNK ALKOXYBENZENE (15 69) | | | | | | | | 29 J | |
| UNK ALKOXYBENZENE (16 00) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 04) | | | | 9 J | | 770 J | 2 J | | |
| UNK ALKOXYBENZENE (16 09) | | | | | 400 J | | | 400 J | |
| UNK ALKOXYBENZENE (16 18) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 31) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 93) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 88) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 89) | | | | | 7 J | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sa e Number | RNS-GW D14DL | RNS-GW-D19 | RNS GW-D1 | RNS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW D13 | RNS-GW D1 | NS GW D12DL |
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK ALKOXY SUB ALIPHATIC ALC (15 19) | | | | | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | | | 2 R | | |
| UNK ALKYLBENZENE (8 89) | | | | | | | | | |
| UNK ALKYLBENZENE (9 16) | | | | | | | | | |
| UNK ALKYLBENZENE ALKOXY SUB (24 76) | | | | | | | | | |
| UNK ALKYLPYRIDINE (12 25) | | | | | | | | | |
| UNK AMINE (12 26) | | | | | | | | | |
| UNK AMINO BENZOIC ACID (20 50) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (17 19) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (19 95) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (20 02) | | | | | | | | | |
| UNK AROMATIC (17 02) | | | | | | | | | |
| UNK AROMATIC (17 25) | | | | | | | | | |
| UNK AROMATIC (17 94) | | | | | | | | | |
| UNK AROMATIC (17 99) | | | | | | | | | |
| UNK AROMATIC (18 50) | | | | | | | | | |
| UNK AROMATIC (22 17) | | | | | | | | | |
| UNK AROMATIC (23 14) | | | | | | | | | |
| UNK AROMATIC (23 31) | | | | | | | | | |
| UNK AROMATIC (25 24) | | | | | | | | 390 J | |
| UNK AROMATIC (26 49) | | | | | | | | | |
| UNK AROMATIC (26 55) | | | | | | | | | |
| UNK AROMATIC (38 55) | | | | | | | | | |
| UNK AROMATIC (40 19) | | | | | | | | | |
| UNK AROMATIC (41 06) | | | | | | | | | |
| UNK AROMATIC ACID (16 33) | | | | 3 J | | | | | |
| UNK AROMATIC ALCOHOL (17 14) | | | | | | | | | |
| UNK AROMATIC AMINE (8 74) | | | | | | | | | |
| UNK AROMATIC AMINE (24 86) | | | | | 18 J | | | | |
| UNK AROMATIC AMINE (25 31) | | | | | | | | | |
| UNK BENZENE METHANOL (16 58) | | | | | | | | | |
| UNK BENZENE SULFONATED (21 49) | | | | | | | | | |
| UNK BENZENEDIOL (16 44) | | | | | | | | | |
| UNK BENZENEAMINE (22 50) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+AROMA (21 35) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+NITROBEN (21 02) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+UNKOWN (21 10) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (35 01) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (33 35) | | | | | | | | | |
| UNK BENZOIC ACID (18 67) | | | | | | | | | |
| UNK BENZOIC ACID (18 00) | | | | | | | | | |
| UNK BENZOIC ACID (18 97) | | | | | | | | | |
| UNK BENZOIC A (15 50) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest umber | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW- | RNS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D13 | RNS-GW- | -GW-D12DL |
| Laboratory Sam ber | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK BENZOYL (16 23) | | | | | | | | | |
| UNK BENZOYL (21 86) | | | | | 6 J | | | | |
| UNK BENZOYL (23 62) | | | | | | | | | |
| UNK BENZOYL (23 76) | | | | | | | | | |
| UNK BENZOYL (24 10) | | | | | | | | | |
| UNK BENZOYL + UNK (15 13) | | | | | | | | | |
| UNK BENZYL ALCOHOL (18 67) | | | | | | | | 340 J | |
| UNK BIPHENYL (25 69) | | | | | | | | | |
| UNK BIPHENYL (26 83) | | | | | | | | | |
| UNK BIPHENYL SUBSTITUTED (26 80) | | | | | | | | | |
| UNK BIPHENYLOL (20 27) | | | | | | | | | |
| UNK BIPHENYLOL (20 33) | | | | | | | | 57 J | |
| UNK BIPHENYLOL (20 42) | | | | | | | | | |
| UNK BIPHENYLOL (20 55) | | | | | | | | 67 J | |
| UNK BIPHENYLOL (20 67) | | | | | | | | | |
| UNK BIPHENYLOL (26 73) | | | | | | | | | |
| UNK BIPHENYLOL (26 85) | | | | | | | | | |
| UNK BROMINATED ALIPHATIC (11 99) | | | | | | | | | |
| UNK BROMOALIPHATIC (12 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (13 96) | | | | | | | | | |
| UNK BROMOALIPHATIO (22 30) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 22) | | | | | | | | | |
| UNK BROMOALKYL (12 11) | | | | | | | | | |
| UNK BROMOAROMATIC (16 83) | | | | | | | | | |
| UNK BROMOAROMATIC (20 21) | | | | | | | | 30 J | |
| UNK BROMOBENZOIC ACID (18 79) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 83) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 90) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 96) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 10) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 19) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 25) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 31) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 38) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 65) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 72) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 84) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (20 24) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (20 37) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK BROMOBENZOIC ACID+AROMATIC (20 34) | | | | | | | | | |
| UNK BROMODICHLORBENZENE (16 83) | | | | | | | | | |

EXTRACTABLE ' GANIC ANALYSIS

| ERM-Midwest S... Number | RNS-GW D14DL | RNS-GW-D19 | RNS-GW-D1. | RNS-GW-S7 | RNS-GW-D11 | RNS-GW D11DL | RNS GW D13 | RNS-GW-D12 | ...NS-GW-D12DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK CARBOXYLIC ACID (17 81) | | | | | | | | 32 J | |
| UNK CHLORINATED ALKLBENZENE (16 61) | 7 J | | | | | | | | |
| UNK CHLORINATED ALIPHATIC (28 51) | | | | | | | | 300 J | |
| UNK CHLORINATED AROMATIC (19 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (37 31) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 83) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (22 79) | | | | | | | | 160 J | |
| UNK CHLORINATED BIPHENYL (26 49) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (29 54) | | | | | | | | 330 J | |
| UNK CHLORINATEDCYCLOHEXANONE (12 92) | | | | | | | | | |
| UNK CHLORINATED NAPTHYLENE (26 38) | | | | | | | | | |
| UNK CHLOROALKANOL (9 82) | | | | | | | | | |
| UNK CHLOROALKYL-AROMATIC (20 79) | | | | | | | | | |
| UNK CHLOROAROMATIC (36 07) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 86) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 91) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 96) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (17 99) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18 76) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18 85) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26 39) | | | | | | | | | |
| UNK CHLOROBIPHENYLOL (22 79) | | | | | 130 J | | | | |
| UNK CHLOROBIPHENYLOL (28 51) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26 52) | | | | | | | | 36 J | |
| UNK CHLORINATED BIPHENYLOL (28 53) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANOL (12 48) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANONE (12 97) | | | | | | | | | |
| UNK CHLOROETHENYLBENZENE (13 28) | | | | | | | | | |
| UNK CHLORONITROAROMATIC (36 06) | | | | 12 J | | | | | |
| UNK CYCLIC ALCOHOL (9 39) | | | | | | | | | |
| UNK CYCLIC ALIPHATIC (15 90) | | | | | | | | | |
| UNK CYCLOALKANOL (9 47) | | | | | | | | | |
| UNK CYCLOHEXANE (13 22) | | | | | | | | | |
| UNK CYCLOHEXANOL (9 42) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 43) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 47) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 52) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 45) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 49) | | 3 R | | | | | | | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | | | | | | | 3 R | | |
| UNK CYCLOHEXYL (12 47) | | | | | | | | | |
| UNK DIBROMOALIPHATIC (13 81) | | | | | | | | | |

EXTRACTABLE ANIC ANALYSIS

| ERM Midwest umber | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW- | NS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D13 | RNS-GW- | GW-D12DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory San. er | S280DL | S281 | S281L. | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK DIBROMOBENZENE (22 82) | | | | | | | | | |
| UNK DIBROMOBENZENE (22 75) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 93) | | | | | | | | | |
| UNK DIBROMOAROMATIC (22 90) | | | | | | | | | |
| UNK DICHLOROALKANOL (9 67) | | | | | | | | | |
| UNK DICHLOROAROMATIC (28 54) | | | | | | | | | |
| UNK DICHLOROBIPHENYL (24 80) | | | | | | | | | |
| UNK DIMETHYLPYRIDINE (12 31) | | | | | | | | 28 J | |
| UNK HALOGENATED ALIPHATIC (13 64) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (16 78) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (17 01) | | | | | | | | | |
| UNK METHBENZENESULFONIC ACID (22 81) | | | | | | | | | |
| UNK MIX BENZENESULFONYL (21 05) | | | | | | | | | |
| UNK MIX TRIMETH PHENOL/AROMA (20 85) | | | | | | | | | |
| UNK N-PHENYLSULFONYL/BENSULF (30 18) | | | | | | | | | |
| UNK NITROANILINE (23 16) | | | | | | | | | |
| UNK NITROANILINE (23 30) | | | | | | | | | |
| UNK NITROAROMATIC (20 18) | | | | | | | | | |
| UNK NITROAROMATIC (20 23) | | | | | | | | | |
| UNK NITROAROMATIC (22 06) | | | | | | | | | |
| UNK NITROAROMATIC (22 15) | | | | | | | | | |
| UNK NITROAROMATIC (22 21) | | | | | | | | | |
| UNK NITROAROMATIC (22 30) | | | | | | | | | |
| UNK NITROAROMATIC (22 56) | | | | | | | | | |
| UNK NITROAROMATIC (22 44) | | | | | | | | | |
| UNK NITROBENZENE (22 11) | | | | | | | | | |
| UNK NITROBENZENE (22 40) | | | | | 43 J | | | | |
| UNK NITROBENZENEAMINE (22 21) | | | | | 76 J | | | | |
| UNK NITROFLUOROBENZENE (12 85) | | | | | | | | | |
| UNK NITROGEN CONTAINING (12 23) | | | | | 16 J | | | | |
| UNK NITROGEN HETEROCYCLIC (12 30) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLE (15 78) | | | | | | | | | |
| UNK METHYLNITROBENZENE AMINE (23 32) | | | | | 7 J | | | | |
| UNK PHENYLSULFONYLBENXSULFON (30 20) | | | | | | | | | |
| UNK POLYHALOGENATED ALIPHATIC (13 93) | | | | | | | | | |
| UNK SUBST MORPHOLINE (26 75) | | | | | | | | | |
| UNK SUBST BENZENEMETHANOL (16 22) | | | | | | | | | |
| UNK SUBST BENZENESULFONAMIDE (21 89) | | | | | | | | | |
| UNK SUBST BENZYL ALCOHOL (17 26) | | | | | | | | | |
| UNK SUBST BIPHENYL (26 86) | | | | | | | | | |
| UNK SUBST BROMOBENZENE (29 52) | | | | | | | | | |
| UNK SUBST BROMOBENZOIC ACID (19 04) | | | | | | | | 27 J | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. Number | RNS-GW-D14DL | RNS-GW-D19 | RNS-GW-D1. | RNS-GW-S7 | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D13 | RNS-GW-D12 | RNS-GW-D12DL |
| Laboratory Sample Number | S280DL | S281 | S281DL | S283 | S284 | S284DL | S285 | S287 | S287DL |
| Remarks | Dilution | | Dilution | | | Dilution | | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | Duplicate of RNS-GW-D14 | Duplicate of RNS-GW-D14 | | | | | | |
| UNK SUBST CHLORINATED BENZENE (36 02) | | | | | | | | | |
| UNK SUBST BIPHENYL (26 95) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26 50) | | | | | | | | 65 J | |
| UNK. SUBST BIPHENYL (26 73) | | | | | | | | | |
| UNK. SUBST PHENYLBUTENONE (17.96) | | | | | | | | | |
| UNK. SULFONATED AROMATIC (25 89) | | | | | .28 J | | | | |
| UNK. SULFONATED BENZENE (30 09) | | | | | | | | | |
| UNK. SULFONYL BENZENE (18.51) | | | | | | | | | |
| UNK. SULFONYLBENZENE (25 66) | | | | | | | | | |
| UNK TRICHLOROALIPHATIC (10.23) | | | | | | | | | |
| UNK. TRICHLOROALIPHATIC (20.66) | | | | | 1200 J | | | | |
| UNK. TRIFLUOROMET ANILINE (12.79) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZEAMINE (12 83) | | | | | | | | | |
| UNK TRIFLUOROMET BENZENAMINE (12 82) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZEAMINE (11.48) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZENAMINE (12 79) | | | | | | | | | |
| UNK. TRIFLUOROMETHBENZENAMINE (12.78) | | | | | 110 J | | | | |
| UNK. TRIFLUOROMETHYL ANLINE (12 84) | | | | | | | | | |
| UNK TRIFLUOROMETHYLBENZENAM (11.49) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest umber | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW | S-GW S21RE | RNS-GW-S21DL | RNS GW D2 | RNS-GW-D2DL | RNS GW | GW S8DL |
| Laboratory Sample .ber | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| 1,1'-BIPHENYL-2-OL (20 31) | | | | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 36) | | | | | 100 J | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 20) | | | | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 47) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | | | 6 R | | 6 R | |
| 1,2-CYCLOHEXANDIOL (13 04) | | | | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | | | | | |
| 3-BUTEN-2-ONE, 4-PHENYL- (18 14) | | | | | 380 J | | | | |
| 2-CYCLOHEXEN-1-ONE (10 42) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | | | | | | | | |
| CYCLOPENTANECARBOXALDEHYDE (8 40) | | | | | | | | | |
| 2-PROPANOL, 1,3-DICHLORO- (9 62) | | 170 J | | | | | | | |
| 4-BENZOYLMORPHOLINE (22 77) | | | | | | | | 3 J | |
| BENYOYL GLYCINE+UNKNOWN (23 58) | | 120 J | | | | | | | |
| BENZAMIDE (18 31) | | 120 J | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 46) | | | | | | | | | |
| BENZAMIDE (18 98) | | | 190 J | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25 55) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 86) | 150 J | 240 J | | | 260 J | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 90) | | | | 280 J | | | | | |
| BENZENESULFONAMIDE (20 66) | | | | | | | 69 J | | |
| BENZENESULFONAMIDE (20 70) | | | | | | | | | |
| BENZENESULFONAMIDE (20 74) | | | | | | | | | |
| BENZENESULFONAMIDE (20 78) | | | | | | 160 J | | | |
| BENZENESULFONAMIDE (20 86) | | | | | | | | | |
| BENZENESULFONAMIDE (20 91) | | | | | | | | | 2900 J |
| BENZENESULFONAMIDE (21 11) | | | | | | | | | |
| BENZENESULFONAMIDE (21 29) | | 6000 J | | | | | | | |
| BENZENESULFONAMIDE (21 34) | | | | | 4400J | | | | |
| BENZENESULFONAMIDE (21 47) | 3200 J | | | | | | | | |
| BENZENESULFONAMIDE (21 54) | | | | 1800 J | | | | 2000 J | |
| BENZENESULFONAMIDE (21 59) | | | | | | | | | |
| BENZENESULFONAMIDE (21 63) | | | | | | | | | |
| BENZENESULFONAMIDE (21 68) | | | | | | | | | |
| BENZENESULFONAMIDE, 2-METHYL (21 78) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 38) | 1300 J | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 98) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 14) | | 2000 J | | | 1600 J | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 30) | | | 1700 J | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 28) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 33) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 46) | | | | | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S. : Number | RNS GW-S12 | RNS GW S12DL | RNS-GW-S. | RNS-GW-S21RE | RNS GW S21DL | RNS GW D2 | RNS GW D2DL | RNS GW S8 | RNS GW S8DL |
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW S12 | Duplicate of RNS-GW-S12 | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 79) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 84) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL+UNK (23 06) | | | | | | | | | |
| BE ..ESULFONAMIDE, N-PHENYL (30 08) | | | | 790 J | | | | | |
| BENZENESULFONAMIDE+UNK AROMATIC (20 76) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK NITROAROM (20 92) | | | | | 1300 J | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 01) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 83) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMA (21 56) | | | 2700 J | | | | | | |
| BENZENESULFONAMINDE+UNK (21 59) | | | | | | | | | |
| BENZOIC ACID (14 72) | | | | | | 2 J | | | |
| BENZOIC ACID (14 77) | | | | | | | | | |
| BENZOIC ACID (14 84) | | | | | | | | | |
| BENZOIC ACID (15 03) | | | | | | | | | |
| BENZOIC ACID (15 56) | 590 J | | | | | | | | |
| BENZOIC ACID (15 90) | | | | | | | | | |
| BENZOIC ACID (18 30) | | | | | | | | | |
| BENZOIC ACID (18 42) | | | | 380 J | | | | | |
| BENZOIC ACID + MIX UNKNOWN (18 46) | | | 12,000 J | | | | | | |
| BE'IZ^'C ACID + UNKNOWN (15 29) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (17 53) | | | | | 1400 J | | | | |
| BENZOIC ACID + UNKNOWNS (18 01) | 15,000 J | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 25) | | | | 3400 J | | | | | |
| BENZOIC ACID + UNKCHLORPHENYE(16 20) | | | 90 J | | | | | | |
| BENZOIC ACID , 2-BROMO- (18 80) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (18 96) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (19 04) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (19 80) | | | | 280 J | | | | | |
| BENZONITRILE (11 57) | 120 J | 160 J | | | 170 J | | | | |
| BENZONITRILE (11 85) | | | | | | | | | |
| BENZONITROLE (11 63) | | | | 160 J | | | | | |
| BENZOPHENONE (21 87) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (18 79) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (19 86) | 650 J | | | | | | | | |
| CARBOXYLIC ACID (17 82) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE (23 04) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 27) | | | | 1300 J | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 34) | | | | | | | | | |
| DECANOIC ACID (17 80) | | | | | | | | | |
| DIBROMOBENZOIC ACID (22 74) | | 170 J | | | | | | | |
| 5,5-DIPH 2,4 IMIDAZOLIDINEDIONE (29 74) | | | | | | | | | |
| DIPHENYLMETHANONE (22 04) | | | | | | | | | |
| DIPHENYLMETHANONE+UNK (22 03) | | | | | | | | | |

EXTRACTABLE ' GANIC ANALYSIS

| ERM-Midwest S ımber | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S | :-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW- | GW-S8DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Samp er | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| DODECANAMIDE, N,N-BIS(2-HYDR) (20 51) | | | | | | | | | |
| ETHANEDIONE, DIPHENYL- (24 06) | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 17) | | 180 J | | | 170 J | | | | |
| ETHANONE, 1-PHENYL- (13 21) | 140 J | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 26) | | | | 220 J | | | | | |
| ETHYLMETHYLBENZENESULFONAMID (22 90) | | | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 90) | | | | | | | | | |
| METHANONE, DIPHENYL- (21.85) | | | | | | | | | |
| METHYLSULFONYLBENZENE (18 52) | | | | | | | | | |
| 1-PHENYLETHANONE + UNK (13 14) | | | | | | | | | |
| MIX ALIPHATIC UNKOWNS (20 78) | | | 140 J | | | | | | |
| MIX ANILINE + CHLOROALIPHATIC (20 72) | | | | | | | | | |
| MIX AROMATIC + UNKNOWNS (18 16) | | 180 J | | | | | | | |
| MIX AROMATIC UNKNOWNS (18 79) | | | | 170 J | | | | | |
| MIX BENYOYL+HYDROXYBENZOIC A (18 24) | 120 J | | | | | | | | |
| MIX BENZOIC ACID+UNK (19 12) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (14 82) | | | | | | | | 11 J | |
| MIX BENZOIC ACID+UNKNOWNS (16 32) | 1700 J | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (17 44) | | 900 J | | | | | | | |
| MIX BENZOIC ACID+UNK ALIPHATIC(18 56) | | | | | | | | | |
| MIX BENZOYL+UNKNOWN (23 73) | | | 480 J | | | | | | |
| MIX BENZOYL+UNK ALKOYBENZENE (15 78) | | | | | | | | | |
| MIX BENZSULFONAMIDE/UNKNOWN (20 98 | | | | 130 J | | | | | |
| MIX BROMOALKYL+UNKNOWNS (13 88) | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (8 20) | | | 560 J | | | | | | |
| MIX BROMOBENZOIC+NITROPHENET (19 94) | | | 110 J | | | | | | |
| MIX CHLORINATED ALIPHATIC (12 83) | | | 300 J | 230 J | | | | | |
| MIX CHLORINATED AROMATIC+UNK(26 35) | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (17 99) | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (19 06) | | | | | | 2 J | | | |
| MIX CYANOBENZENE+UNKNOWNS (28 31) | | | | 120 J | | | | | |
| MIX NETHYL4METHYLBENZULFA+UN(22 96) | | | 92 J | | | | | | |
| MIX NITROBENZOIC ACID+CHLBENS(21.10) | | | 98 J | | | | | | |
| MIX SUB BENZENESULFONAMIDE&SILA (30 09) | | | | 1200 J | | | | | |
| MIX SULFONATED BENZENE+UNK (21 46) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (30 26) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (31 26) | | | | | | | | 5 J | |
| MIX UNK ALIPHATIC & SILANE (32 22) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (34 04) | | | | | | | | 3 R | |
| MIX UNK ALIPHATIC (20 77) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (31 19) | | | | 120 J | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (32 23) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 39) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. Number | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S. | RNS-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW-S6 | RNS-GW-S8DL |
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 44) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 82) | | | | | | 2 R | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 87) | | | | | | | | | |
| MIX UNK ALIPHATICS (13 95) | | | | | | | | | |
| MIX UNK ALIPHATICS (16 89) | | | 87 J | | | | | | |
| MIX UNK ALKOXYBENZENE+UNK (16 10) | | | | | | | | | |
| MIX UNK ALKYLBENZENE (17 98) | | | | | | | | | |
| MIX UNK AROMATICS (20 23) | | | | | | | | | |
| MIX UNK AROMATIC (20 67) | | | | | | | | | |
| MIX UNK AROMATIC (20 76) | | | | | | | | | |
| MIX UNK AROMATIC (20 88) | | | | | | | | | |
| MIX UNK AROMATIC (21 13) | | | | | | | | | |
| MIX UNK AROMATIC (23 05) | | | | | | | | | |
| MIX UNK AROMATIC (25 63) | | | | | | | | | |
| MIX UNK AROMATIC +UNK (30 92) | | | | | | | | | |
| MIX UNK AROMATIC+UNK ALIPHAT | | | | | | | | | |
| MIX UNK AROMATICS (27 06) | | | | | | | | | |
| MIX UNK AROMATICS (37 26) | | | | | | | | | |
| MIX UNK BENZOIC ACID+CHLOROP (15 37) | | | | | | | | | |
| MIX UNK BENZYL ALCOHOL (18 67) | 650 J | | | | | | | | |
| MIX UNK BROMOBENZOIC ACID (19 24) | | | | | | | | | |
| MIX UNK DICHLOROPHENOL+BENZO (18 72) | | | | | | | | | |
| MIX UNK FLUORINATED AROMATIC (23 11) | | | | | | | | | |
| MIX UNK HYDROCARB+CHLOROHYD (28 50) | | | | | | | | | |
| MIX UNK NITROBENZENEAMINE+UNK (22 52) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 43) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 60) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 71) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 95) | | 3100 J | | | 160 J | | | | |
| NITROAROMITIC UNKNOWNS | | | | | | | | | |
| NITROBENZEN+BENZOIC ACID MIX (16 41) | 640 J | | | | | | | | |
| 1,4-PENTADIENE-3-ONE,1,5-DIPHEN (29 39) | 510 J | | | | | | | | |
| PHENYLETHANONE (13 23) | | | | | | | | | |
| PHENYLETHANONE (13 33) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 61) | | | | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 66) | | | | | | | | | |
| 2-PROPEN-1-ONE,1-(NITROPHENYL) (30 03) | | | | | | | | | |
| SULFUR, MOL (S8) (25 79) | | | | | | | | | |
| 1,1 SULFONYLBISBENZNE (25 22) | | | | | | | | | |
| TRIFLUOROMET ANILINE SUB UNK (12 82) | | | | | | | | | |
| TRIFLUOROMETBENZENAMINE+UNK (12 88) | | | | | | | | | |
| UNK ACETYL (18 78) | | | | | | | | | |
| UNK ACID (16 35) | | | 190 J | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest Sample Number | RNS GW S12 | RNS GW S12DL | RNS GW | GW S21RE | RNS GW S21DL | RNS GW D2 | RNS GW D2DL | RNS GW | GW S8DL |
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| UNK ALIPHATIC (9 48) | | | | | | | | | |
| UNK ALIPHATIC (12 23) | | | | | | | | | |
| UNK ALIPHATIC (12 33) | | | | | 150 J | | | | |
| UNK ALIPHATIC (16 32) | | | | | | | | | |
| UNK ALIPHATIC (19 73) | | | | | | | | | |
| UNK ALIPHATIC (20 66) | | | | | | | | | |
| UNK ALIPHATIC (26 84) | | | | | 140 J | | | | |
| UNK ALIPHATIC (9 62) | | | | | | | | | |
| UNK ALIPHATIC + SILANE (31 30) | | | | | 160 J | | | | |
| UNK ALIPHATIC ACID (19 63) | | | | | | | | | |
| UNK ALIPHATIC ACID (20 50) | | | | | | | | | |
| UNK ALIPHATIC ALCOHOL (11 85) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 78) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (8 34) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 23) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 35) | | 140 J | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 44) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (20 52) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (27 60) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (28 52) | | | | | | 3 J | | | |
| UNK ALIPHATIC HYDROCARB (29 41) | | | | | | 8 J | | | |
| UNK ALIPHATIC HYDROCARB (30 24) | | | | | | 11 R | | 5 R | |
| UNK ALIPHATIC HYDROCARB (31 15) | | | | | | 11 J | | | |
| UNK ALIPHATIC HYDROCARB (31 19) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (32 19) | | | | | | 9 J | | | |
| UNK ALIPHATIC HYDROCARB (32 23) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (33 44) | | | | | | 5 J | | | |
| UNK ALIPHATIC HYDROCARB (34 81) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (34 87) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (30 27) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (31 18) | | | | | | | | | |
| UNK ALIPHATIC POLYCHLORINAT (32 23) | | | | | | | | 4 J | |
| UNK ALKOXYBENZENE (15 69) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 00) | | | | | | | | 6 J | |
| UNK ALKOXYBENZENE (16 04) | | | | | | 4 J | | 31 J | 30 J |
| UNK ALKOXYBENZENE (16 09) | 3200 J | 400 J | | | | | | | |
| UNK ALKOXYBENZENE (16 18) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 31) | | | | | | | | | |
| UNK ALKOXYBENZENE (18 93) | | | | | 110 J | | | | |
| UNK ALKOXYETHANOL (11 88) | | | | 130 J | | | | | |
| UNK ALKOXYETHANOL (11 89) | | | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest S. . Number | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S. | NS-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS GW D2DL | RNS-GW-S8 | NS-GW S8DL |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| UNK ALKOXY SUB ALIPHATIC ALC (15 19) | | | | | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | | | | | |
| UNK ALKYLBENZENE (8 89) | | | | | | | | | |
| UNK ALKYLBENZENE (9 16) | | | | | | | | | |
| UNK ALKYLBENZENE ALKOXY SUB (24 76) | | | | | | | | | |
| UNK ALKYLPYRIDINE (12 25) | | | | | | | | | |
| UNK AMINE (12 26) | 110 J | | | | | | | | |
| UNK AMINO BENZOIC ACID (20 50) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (17 19) | | | | | | | | 3 J | |
| UNK AMINOPHENYLETHANONE (19 95) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (20 02) | | | | | | | | | |
| UNK AROMATIC (17 02) | | | | | | | | | |
| UNK AROMATIC (17 25) | | | | | | | | | |
| UNK AROMATIC (17 94) | | | | | | | | | |
| UNK AROMATIC (17 99) | | | | | | | | | |
| UNK AROMATIC (18 50) | | | | | | | | | |
| UNK AROMATIC (22 17) | | | | | | | | 3 J | |
| UNK AROMATIC (23 14) | | | | | | | | | |
| UNK AROMATIC (23 31) | | | | | | | | | |
| UNK AROMATIC (25 24) | | | | | | | | | |
| UNK AROMATIC (26 49) | | | | | | | | | |
| UNK AROMATIC (26 55) | | | | | | | | | |
| UNK AROMATIC (38 55) | | | | | | | | | |
| UNK AROMATIC (40 19) | | | | | | | | | |
| UNK AROMATIC (41 06) | | | | | | | | | |
| UNK AROMATIC ACID (16 33) | | | | | | | | | |
| UNK AROMATIC ALCOHOL (17 14) | | | | | | | | | |
| UNK AROMATIC AMINE (8 74) | | | | | | | | | |
| UNK AROMATIC AMINE (24 86) | | | | | | | | | |
| UNK AROMATIC AMINE (25 31) | | | | | | | | | |
| UNK BENZENE METHANOL (16 58) | | | | | | | | | |
| UNK BENZENE SULFONATED (21 49) | | | | | | | | | |
| UNK BENZENEDIOL (16 44) | | | | | | | | | |
| UNK BENZENEAMINE (22 50) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+AROMA (21 35) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+NITROBEN (21 02) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+UNKOWN (21 10) | 800 J | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (35 01) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (33 35) | | | | | | | | | |
| UNK BENZOIC ACID (18 67) | | | 1440 J | | | | | | |
| UNK BENZOIC ACID (18 00) | | | | | | | | | |
| UNK BENZOIC ACID (18 97) | | | | | | | | | |
| UNK BENZOIC ACID (15 50) | | | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Laboratory San. | RNS-GW-S12 S288RE | RNS-GW-S12DL S288DL | RNS-GW S289 | S-GW-S21RE S289RE | RNS GW-S21DL S289DL | RNS GW-D2 S290 | RNS GW D2DL S290DL | RNS-GV S291 | GW S8DL S291DL |
|---|---|---|---|---|---|---|---|---|---|
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/l |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS GW-S12 | | | | |
| UNK BENZOYL (16 23) | | | | | | | | | |
| UNK BENZOYL (21 86) | | | | | | | | | |
| UNK BENZOYL (23 62) | | | | | | | | | |
| UNK BENZOYL (23 76) | | | | | 210 J | | | | |
| UNK BENZOYL (24 10) | | | 200 J | | | | | | |
| UNK BENZOYL + UNK (15 13) | | | | | | | | | |
| UNK BENZYL ALCOHOL (18 67) | | | | | | | | | |
| UNK BIPHENYL (25 69) | | | | | 150 J | | | | |
| UNK BIPHENYL (26.83) | | | | | | | | | |
| UNK BIPHENYL SUBSTITUTED (26 80) | | | | | | | | | |
| UNK BIPHENYLOL (20.27) | | | | | | | | | |
| UNK BIPHENYLOL (20 33) | | | | | | | | | |
| UNK BIPHENYLOL (20 42) | | | | | | | | | |
| UNK BIPHENYLOL (20 55) | | | | | | | | | |
| UNK BIPHENYLOL (20 67) | | | 130 J | | | | | | |
| UNK BIPHENYLOL (26.73) | | | | | | | | | |
| UNK BIPHENYLOL (26 85) | | | | | | | | | |
| UNK BROMINATED ALIPHATIC (11 99) | 100 J | | 87 J | | | | | | |
| UNK BROMOALIPHATIC (12 03) | | 170 J | | | 160 J | | | | |
| UNK BROMOALIPHATIC (13 96) | 120 J | | | | | | | | |
| UNK BROMOALIPHATIC (22 30) | | | | 2300 J | | | | 3 J | |
| UNK BROMOALIPHATIC (8 03) | | | | 580 J | | | | | |
| UNK BROMOALIPHATIC (8 22) | 150 J | | | | | | | | |
| UNK BROMOALKYL (12 11) | | | | 390 J | | | | | |
| UNK BROMOAROMATIC (16 83) | | | | 150 J | | | | | |
| UNK BROMOAROMATIC (20 21) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 79) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18.83) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 90) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 96) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 10) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 19) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 25) | | | 190 J | | | | | | |
| UNK BROMOBENZOIC ACID (19 31) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 38) | | 320 J | | | 210 J | | | | |
| UNK BROMOBENZOIC ACID (19 65) | | 410 J | | | 540 J | | | | |
| UNK BROMOBENZOIC ACID (19 72) | | 700 J | | | 740 J | | | | |
| UNK BROMOBENZOIC ACID (19 84) | | | | 180 J | | | | | |
| UNK BROMOBENZOIC ACID (20 24) | | | 410 J | | | | | | |
| UNK BROMOBENZOIC ACID (20 37) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK BROMOBENZOIC ACID+AROMATIC (20 34) | | | | 200 J | | | | | |
| UNK BROMODICHLORBENZENE (16 83) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S[illegible] Number | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S. | RNS-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW-S8 | RNS-GW-S8DL |
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| UNK CARBOXYLIC ACID (17 81) | | | | | | | | | |
| UNK CHLORINATED ALKLBENZENE (16 61) | | | | | | | | | |
| UNK CHLORINATED ALIPHATIC (28 51) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (19 77) | | | | | | | | 4 J | |
| UNK CHLORINATED AROMATIC (37 31) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (20 83) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (22 79) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (26 49) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (29 54) | | | | | | | | | |
| UNK CHLORINATEDCYCLOHEXANONE (12 92) | | | | | | | | | |
| UNK CHLORINATED NAPTHYLENE (26 38) | | | | | | | | | |
| UNK CHLOROALKANOL (9 82) | | | | | | | | | |
| UNK CHLOROALKYL-AROMATIC (20 79) | | | | 110 J | | | | | |
| UNK CHLOROAROMATIC (36 07) | | | | | | | | 200 J | |
| UNK CHLOROBENZENESULFONAMIDE (22 86) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 91) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 96) | | 250 J | | | 190 J | | | | |
| UNK CHLOROBENZOIC ACID (17 99) | | | | | | | | | |
| UN[illegible] CHLOROBENZOIC ACID (18 76) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18 85) | 120 J | | | | | | | | |
| UNK CHLOROBIPHENYL (26 39) | | | 150 J | | | | | | |
| UNK CHLOROBIPHENYLOL (22 79) | | | | | | | | | |
| UNK CHLOROBIPHENYLOL (28 51) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26 52) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (28 53) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANOL (12 48) | | | | | | | | | |
| UNK CHLOROCYCLOHEXANONE (12 97) | | | | | | | | | |
| UNK CHLOROETHENYLBENZENE (13 28) | | | | | | | | | |
| UNK CHLORONITROAROMATIC (36 06) | | | | | | | | | |
| UNK CYCLIC ALCOHOL (9 39) | | | | | | | | | |
| UNK CYCLIC ALIPHATIC (15 90) | | | | | | | | | |
| UNK CYCLOALKANOL (9 47) | | | | | | | | | |
| UNK CYCLOHEXANE (13 22) | | | | | | | | | |
| UNK CYCLOHEXANOL (9 42) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 43) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 47) | | | | | | 3 R | | | |
| UNK CYCLOHEXANOL (12 52) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 45) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 49) | | | | | | | | | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | | | | | | 5 J | | | |
| UNK CYCLOHEXYL (12 47) | | | | | | | | | |
| UNK DIBROM[illegible]PHATIC (13 81) | | | | | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S umber | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW- | S-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS GW-D2DL | RNS-GW | GW-S8DL |
| Laboratory Samp ber | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| UNK DIBROMOBENZENE (22 82) | 1800 J | | | | | | | | |
| UNK DIBROMOBENZENE (22 75) | 150 J | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 82) | | | | | 180 J | | | | |
| UNK DIBROMOBENZOIC ACID (22 93) | | | | | | | | | |
| UNK DIBROMOAROMATIC (22 90) | | | 320 J | | | | | | |
| UNK DICHLOROALKANOL (9 67) | | | | | | | | | |
| UNK DICHLOROAROMATIC (28 54) | 120 J | | | | | | | | |
| UNK DICHLOROBIPHENYL (24 80) | | | | | | | | | |
| UNK DIMETHYLPYRIDINE (12 31) | | | | | | | | | |
| UNK HALOGENATED ALIPHATIC (13 64) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (16 78) | | | | 160 J | | | | | |
| UNK IMADAZOLIDINDIONE (17 01) | | | | | | | | 4 J | |
| UNK METHBENZENESULFONIC ACID (22 81) | | | | | | | | | |
| UNK MIX BENZENESULFONYL (21 05) | | | | | | | | | |
| UNK MIX TRIMETH PHENOL/AROMA (20 85) | | | | | | | | | |
| UNK N-PHENYLSULFONYL/BENSULF (30 18) | | | | | | | | | |
| UNK NITROANILINE (23.16) | | | | | | | | | |
| UNK NITROANILINE (23 30) | | | | | | | | | |
| UNK NITROAROMATIC (20 18) | | | | | | | | | |
| UNK NITROAROMATIC (20 23) | | | | | | | | | |
| UNK NITROAROMATIC (22 06) | | | | | | | | | |
| UNK NITROAROMATIC (22 15) | | 250 J | | | | | | | |
| UNK NITROAROMATIC (22 21) | | 600 J | | | 630 J | | | | |
| UNK NITROAROMATIC (22.30) | 460 J | | | | | | | | |
| UNK NITROAROMATIC (22.56) | | | 810 J | | | | | | |
| UNK NITROAROMATIC (22 44) | | | 960 J | 710 J | | | | | |
| UNK NITROBENZENE (22 11) | | 940 J | | | 900 J | | | | |
| UNK NITROBENZENE (22 40) | | | | | | | | | |
| UNK NITROBENZENEAMINE (22.21) | 220 J | | | | | | | | |
| UNK NITROFLUOROBENZENE (12 85) | | | | | | | | | |
| UNK NITROGEN CONTAINING (12 23) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLIC (12 30) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLE (15.78) | | | | | | | | | |
| UNK METHYLNITROBENZENE AMINE (23.32) | | | | | | | | | |
| UNK PHENYLSULFONYLBENXSULFON (30 20) | | | | | 280 J | | | | |
| UNK POLYHALOGENATED ALIPHATIC (13 93) | | | | | | | | | |
| UNK SUBST MORPHOLINE (26 75) | | | | | | | | | |
| UNK SUBST BENZENEMETHANOL (16 22) | | | | | | | | | |
| UNK SUBST BENZENESULFONAMIDE (21 89) | | | | | | | | | |
| UNK SUBST BENZYL ALCOHOL (17 26) | | | | | | | | | |
| UNK SUBST BIPHENYL (26 86) | | | | | | | | | |
| UNK SUBST BROMOBENZENE (29 52) | | | | | | | | | |
| UNK SUBST BROMOBENZOIC ACID (19 04) | | | | | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. e Number | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S. | RNS-GW-S21RE | RNS-GW-S21DL | RNS-GW-D2 | RNS-GW-D2DL | RNS-GW-S6 | RNS-GW-S8DL |
| Laboratory Sample Number | S288RE | S288DL | S289 | S289RE | S289DL | S290 | S290DL | S291 | S291DL |
| Remarks | | Dilution | | Reanalysis | Dilution | | Dilution | | Dilution |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | | | | |
| UNK. SUBST CHLORINATED BENZENE (36.02) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.95) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.50) | | | | | | | | | |
| UNK. SUBST BIPHENYL (26.73) | | | | | | | | | |
| UNK. SUBST PHENYLBUTENONE (17.96) | | | | | | | | | |
| UNK. SULFONATED AROMATIC (25.89) | | 150 J | | | | | | | |
| UNK. SULFONATED BENZENE (30.09) | | | | | | | | | |
| UNK. SULFONYL BENZENE (18.51) | | | | | | | | | |
| UNK. SULFONYLBENZENE (25.66) | | | 690 J | | | | | | |
| UNK. TRICHLOROALIPHATIC (10.23) | | | | | | | | | |
| UNK. TRICHLOROALIPHATIC (20.66) | | | | | | | | | |
| UNK. TRIFLUOROMET ANILINE (12.79) | | 130 J | | | | | | | |
| UNK. TRIFLUOROMET BENZEAMINE (12.83) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.82) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZEAMINE (11.48) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZENAMINE (12.79) | | | | | | | | | |
| UNK. TRIFLUOROMETHBENZENAMINE (12.78) | | | | | | | | | |
| UNK. TRIFLUOROMETHYL ANLINE (12.84) | | | | | | | | | |
| UNK. TRIFLUOROMETHYLBENZENAM (11.49) | | | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | -T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | W-S6 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 31) | | | | | | | | | |
| 1,1'-BIPHENYL-2-OL (20 36) | | | | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 20) | | | | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 47) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | | | | | | |
| 1,2-CYCLOHEXANDIOL (13 04) | | | | | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | | | | | |
| 3-BUTEN-2-ONE, 4-PHENYL- (18 14) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 42) | | | | | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | | | | | | | | |
| CYCLOPENTANECARBOXALDEHYDE (8 40) | | | | | | | | | |
| 2-PROPANOL, 1,3-DICHLORO- (9.62) | | | | | | | | | |
| 4-BENZOYLMORPHOLINE (22 77) | | | | | | | | | |
| BENYOYL GLYCINE+UNKNOWN (23 58) | | | | | | | | | |
| BENZAMIDE (18 31) | | | | | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 46) | | | | 57 J | | | | | |
| BENZAMIDE (18 98) | | | | | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25.55) | | | | | | | | | 360 J |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 86) | | | | | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 90) | | | | | | | | | |
| BENZENESULFONAMIDE (20 66) | | | | | 1500 J | | | 10,000 J | |
| BENZENESULFONAMIDE (20 70) | | | | | | | | | |
| BENZENESULFONAMIDE (20 74) | | 2500 J | | | | | | | |
| BENZENESULFONAMIDE (20 78) | | | | | | | | | |
| BENZENESULFONAMIDE (20 86) | | | | | | | | | |
| BENZENESULFONAMIDE (20 91) | | | | | | | | | |
| BENZENESULFONAMIDE (21 11) | | | | | | | | | |
| BENZENESULFONAMIDE (21 29) | | | | | | | | | |
| BENZENESULFONAMIDE (21 34) | | | | | | | | | |
| BENZENESULFONAMIDE (21 47) | | | | | | | | | |
| BENZENESULFONAMIDE (21.54) | | | | | | | | | |
| BENZENESULFONAMIDE (21.59) | | | | | | | | | |
| BENZENESULFONAMIDE (21 63) | | | 2700 J | | | | 15,000 J | | |
| BENZENESULFONAMIDE (21 68) | 2800 J | | | | | | | | |
| BENZENESULFONAMIDE, 2-METHYL (21 78) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 38) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 98) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 14) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 30) | | | | | | 1700 J | | | 20 J |
| BENZENESULFONAMIDE, 4-METHYL (22 14) | | | | | | | | 1100 J | |
| BENZENESULFONAMIDE, 4-METHYL (22.28) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 33) | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 46) | | | | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S[illegible] Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | R[illegible]GW-T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | RNS-GW-SG |
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 79) | | | | | | 2200 J | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 84) | | | | | | | 3400 J | | |
| BENZENESULFONAMIDE, 4-METHYL+UNK (23 06) | | | | | | 500 J | | | |
| BENZENESULFONAMIDE, N-PHENYL (30 08) | | | | | | | | | |
| BENZENESULFONAMIDE+UNK AROMATIC (20 76) | | | | | 500 J | | | | |
| BENZENESULFONAMIDE+UNK NITROAROM (20 92) | | | | | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 01) | | | | 360 J | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 83) | | | | | | | | | 2500 J |
| BENZENESULFONAMIDE+UNK AROMA (21 56) | | | | | | | | | |
| BENZENESULFONAMINDE+UNK (21.59) | | | | | | 13,000 J | | | |
| BENZOIC ACID (14 72) | | | | | | | | | |
| BENZOIC ACID (14 77) | | | | | | | | | |
| BENZOIC ACID (14 84) | 8 J | | | | | | | | |
| BENZOIC ACID (15.03) | | | | | | | | | |
| BENZOIC ACID (15 56) | | | | | | | | | |
| BENZOIC ACID (15 90) | | | | | | | 920 J | | 30 J |
| BENZOIC ACID (18 30) | | | | | | 2400 J | | | |
| BENZOIC ACID (18 42) | | | | | | | | | |
| BENZOIC ACID + MIX UNKNOWN (18 46) | | | | | | | | | |
| BENZOIC ACID + UNKNOWN (15 29) | | | | | | | | 270,000 J | |
| BENZOIC ACID + UNKNOWNS (17 53) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 01) | | | | | | | | | |
| BENZOIC ACID + UNKNOWNS (18 25) | | | | | | | | | |
| BENZOIC ACID + UNKCHLORPHENYE(16 20) | | | | | | | | | |
| BENZOIC ACID , 2-BROMO- (18 80) | | | | | | | | 2100 J | |
| BENZOIC ACID, 2-BROMO- (18 96) | | | | | | | | 4000 J | |
| BENZOIC ACID, 2-BROMO- (19 04) | | | | | | | | | |
| BENZOIC ACID, 2-BROMO- (19 80) | | | | | | | | | |
| BENZONITRILE (11 57) | | | | | | | | | |
| BENZONITRILE (11 85) | | | | | | | 500 J | | |
| BENZONITROLE (11 63) | | | | | | | | | |
| BENZOPHENONE (21 87) | | | 28 J | 20 J | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (18 79) | | | | | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (19 86) | | | | | | | | | |
| CARBOXYLIC ACID (17 82) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE (23 04) | 42 J | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 27) | | | | | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 34) | | | | | | | 4100 J | | |
| DECANOIC ACID (17 80) | | | | | | | | | |
| DIBROMOBENZOIC ACID (22 74) | | | | | | | | | |
| 5,5-DIPH-2,4-IMIDAZOLIDINEDIONE (29 74) | | | | | | 98 J | | | |
| DIPHENYLMETHANONE (22 04) | | | | | | | 820 J | | |
| DIPHENYLMETHANONE+UNK (22 03) | | | | | | 690 J | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Number | RNS-GW-T1 | RNS GW-T1DL | RNS-GW-T2 | -T2RE | RNS GW-T2DL | RNS-GW S18 | RNS GW S18RE | RNS GW-S18D | W S6 |
| Laboratory San. ber | S292 | S292DL | S293 | RE | S293DL | S294 | S294RE | S294DL | 295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| DODECANAMIDE, N,N-BIS(2-HYDR) (20 51) | | | | | | | | | |
| ETHANEDIONE, DIPHENYL- (24 06) | | | 65 J | | | | | | |
| ETHANONE, 1-PHENYL- (13 17) | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 21) | | | | | | | | | |
| ETHANONE, 1-PHENYL- (13 26) | | | | 34 J | | | | | |
| ETHYLMETHYLBENZENESULFONAMID (22 90) | 6 J | | | | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 90) | | | | | | | | | |
| METHANONE, DIPHENYL- (21 85) | 11 J | | | | | | | | |
| METHYLSULFONYLBENZENE (18 52) | | | | | | | | | |
| 1-PHENYLETHANONE + UNK (13 14) | | | | | | | | | |
| MIX ALIPHATIC UNKOWNS (20 78) | | | | | | | | | |
| MIX ANILINE + CHLOROALIPHATIC (20 72) | | | | | | | | 1100 J | |
| MIX AROMATIC + UNKNOWNS (18 16) | | | | | | | | | |
| MIX AROMATIC UNKNOWNS (18 79) | | | | | | | | | |
| MIX BENYOYL+HYDROXYBENZOIC A (18 24) | | | | | | | | | |
| MIX BENZOIC ACID+UNK (19 12) | 4 J | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (14 82) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (16 32) | | | | | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (17 44) | | | | | | | | | |
| MIX BENZOIC ACID+UNK ALIPHATIC(18 56) | | | | | | | 11000 J | | |
| MIX BENZOYL+UNKNOWN (23 73) | | | | | | | | | |
| MIX BENZOYL+UNK ALKOYBENZENE (15 78) | | | | | | | | | 85 J |
| MIX BENZSULFONAMIDE/UNKNOWN (20 98 | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (13 88) | | | | | | | | | |
| MIX BROMOALKYL+UNKNOWNS (8 20) | | | | | | | | | |
| MIX BROMOBENZOIC+NITROPHENET (19 94) | | | | | | | | | |
| MIX CHLORINATED ALIPHATIC (12 83) | | | | | | 8800 J | | | |
| MIX CHLORINATED AROMATIC+UNK(26 35) | | | | | | 580 J | | | |
| MIX CHLOROBENZOIC ACID+UNK (17 99) | | | | | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (19 06) | | | | | | | | | |
| MIX CYANOBENZENE+UNKNOWNS (28 31) | | | | | | | | | |
| MIX NETHYL4METHYLBENZULFA+UN(22 96) | | | | | | | | | |
| MIX NITROBENZOIC ACID+CHLBENS(21 10) | | | | | | | | | |
| MIX SUB BENZENESULFONAMIDE&SILA (30 09) | | | | | | | | | |
| MIX SULFONATED BENZENE+UNK. (21 46) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (30 26) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (31 26) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (32 22) | | | | | | | | | |
| MIX UNK ALIPHATIC & SILANE (34 04) | | | | | | | | | |
| MIX UNK ALIPHATIC (20 77) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (31 19) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (32 23) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 39) | | | | | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest S[illegible] Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | R[illegible]GW-T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | RNS-GW-S6 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 44) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 82) | | | | | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 87) | | | | | | | | | |
| MIX UNK ALIPHATICS (13 95) | | | | | | | | | |
| MIX UNK ALIPHATICS (16 89) | | | | | | | | | |
| MIX UNK ALKOXYBENZENE+UNK (16 10) | | | | | | | | | |
| MIX UNK ALKYLBENZENE (17 98) | | | | 260 J | | | | | |
| MIX UNK AROMATICS (20 23) | | | | | | | | | 450 J |
| MIX UNK AROMATIC (20 67) | | | | | | | 1800 J | | |
| MIX UNK AROMATIC (20 76) | | | | | | | | | |
| MIX UNK AROMATIC (20 88) | | | | | | | | | |
| MIX UNK AROMATIC (21 13) | | | | | | | 4300 J | | |
| MIX UNK AROMATIC (23 05) | | | | | | | 880 J | | |
| MIX UNK AROMATIC (25 63) | | | | 300 J | | | | | |
| MIX UNK AROMATIC +UNK (30 92) | | | | | | | | | |
| MIX UNK AROMATIC+UNK ALIPHAT | | | | | | | | | |
| MIX UNK AROMATICS (27 06) | | | | | | | | | |
| MIX UNK AROMATICS (37 26) | | | | | | | | | |
| MIX UNK BENZOIC ACID+CHLOROP (15 37) | | | | | | | | | |
| MIX UNK BENZYL ALCOHOL (18 67) | | | | | | | | | |
| MIX UNK BROMOBENZOIC ACID (19 24) | | | | | | | | | 48 J |
| MIX UNK DICHLOROPHENOL+BENZO (18 72) | | | | | | | | | |
| MIX UNK FLUORINATED AROMATIC (23 11) | 5 J | | | | | | | | |
| MIX UNK HYDROCARB+CHLOROHYD (28 50) | | | | | | | | | |
| MIX UNK NITROBENZENEAMINE+UNK (22 52) | | | | | | | | | |
| MIXTURE UNKNOWNS (11 43) | | | | 230 J | | | | | |
| MIXTURE UNKNOWNS (11 60) | | | | | | | 630 J | | |
| MIXTURE UNKNOWNS (13 71) | | | | | | | | | |
| MIXTURE UNKNOWNS (13 95) | | | | | | | | | |
| NITROAROMITIC UNKNOWNS | | | | | | 440 J | | | |
| NITROBENZEN+BENZOIC ACID MIX (16 41) | | | | | | | | | |
| 1,4-PENTADIENE-3-ONE,1,5-DIPHEN (29 39) | | | | | | | | | |
| PHENYLETHANONE (13 23) | | | | | | 79 J | | | |
| PHENYLETHANONE (13 33) | | | | | | | 340 J | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 61) | | | 32 J | | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 66) | | | | | | | | | |
| 2-PROPEN-1-ONE,1-(NITROPHENYL) (30 03) | | | 100 J | 96 J | | | | | |
| SULFUR, MOL (S8) (25 79) | | | | | | 74 J | | | |
| 1,1-SULFONYLBISBENZNE (25 22) | | | | | | | | | |
| TRIFLUOROMET ANILINE SUB UNK (12 82) | | | | | | 120 J | | | |
| TRIFLUOROMETBENZENAMINE+UNK (12 88) | | | | | | | | | 240 J |
| UNK ACETYL (18 78) | | | | | | | | | |
| UNK ACID (16 35) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwes umber | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T: | /-T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18L | GW-S6 |
| Laboratory San nber | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK ALIPHATIC (9 48) | | | | | | | | | |
| UNK ALIPHATIC (12 23) | | | | 48 J | | | | | |
| UNK ALIPHATIC (12 33) | | | | | | | | | |
| UNK ALIPHATIC (16 32) | | | | | | | | | |
| UNK ALIPHATIC (19 73) | | | | | | | | | |
| UNK ALIPHATIC (20 66) | | | | | | | | | |
| UNK ALIPHATIC (26.84) | | | | | | | | | |
| UNK ALIPHATIC (9 62) | | | | | | | | | |
| UNK ALIPHATIC + SILANE (31 30) | | | | | | | | | |
| UNK ALIPHATIC ACID (19 63) | | | | | | | | | |
| UNK ALIPHATIC ACID (20 50) | | | | | | | | | |
| UNK ALIPHATIC ALCOHOL (11 85) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 78) | | | | | | | | | |
| UNK ALIPHATIC AMINE (8 82) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (8.34) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12.23) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 35) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (12 44) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (20 52) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (27 60) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (28 52) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (30 24) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (31.15) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (31 19) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (32 19) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (32 23) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (33.44) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (34 81) | | | | | | | | | |
| UNK ALIPHATIC HYDROCARB (34 87) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (29 41) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (30 27) | | | | | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (31 18) | | | | | | | | | |
| UNK ALIPHATIC POLYCHLORINAT (32.23) | | | | | | | | | |
| UNK ALKOXYBENZENE (15 69) | | | | | | | | | |
| UNK ALKOXYBENZENE (16 00) | 10 J | | | | | | | 11,000 J | |
| UNK ALKOXYBENZENE (16 04) | | 320 J | | | 1000 J | | | | |
| UNK ALKOXYBENZENE (16.09) | 200 J | | | | | | | | 50 J |
| UNK ALKOXYBENZENE (16 18) | | | 270 J | | | | 2600 J | | |
| UNK ALKOXYBENZENE (18 31) | | | | | | 500 J | | | |
| UNK ALKOXYBENZENE (18 93) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 88) | | | | | | | | | |
| UNK ALKOXYETHANOL (11 89) | | | | | | | | | |

| EXTRACTABLE [illegible]GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwest S[illegible]e Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | R[illegible]GW-T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | [illegible]NS GW-S6 |
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK ALKOXY SUB ALIPHATIC ALC (15 19) | | | | | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | | | | | |
| UNK ALKYLBENZENE (8 89) | | | | | | | | | |
| UNK ALKYLBENZENE (9 16) | | | | | | | 570 J | | |
| UNK ALKYLBENZENE ALKOXY SUB (24 76) | | | | | | | | | |
| UNK ALKYLPYRIDINE (12 25) | | | | | | | | | |
| UNK AMINE (12 26) | | | | | | | | | |
| UNK AMINO BENZOIC ACID (20 50) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (17 19) | | | | | | | | | |
| UNK AMINOPHENYLETHANONE (19 95) | | | | | | | | | 85 J |
| UNK AMINOPHENYLETHANONE (20 02) | 11 J | | | | | | | | |
| UNK AROMATIC (17 02) | | | | | | | 5500 J | | |
| UNK AROMATIC (17 25) | 200 J | | 160 J | | | | | | |
| UNK AROMATIC (17 94) | | | | | | | | | |
| UNK AROMATIC (17 99) | | | 61 J | | | | | | |
| UNK AROMATIC (18 50) | | | 42 J | | | | | | |
| UNK AROMATIC (22 17) | 13 J | | | | | | | | |
| UNK AROMATIC (23 14) | | | | | | | 320 J | | |
| UNK AROMATIC (23 31) | | | | | | | 4800 J | | |
| UNK AROMATIC (25 24) | | | | | | | | | |
| UNK AROMATIC (26 49) | | | | | | | | | |
| UNK AROMATIC (26 55) | | | 56 J | | | | | | |
| UNK AROMATIC (38 55) | 10 J | | | | | | | | |
| UNK AROMATIC (40 19) | | | | | | 110 J | | | |
| UNK AROMATIC (41 06) | | | | | | 110 J | | | |
| UNK AROMATIC ACID (16 33) | | | | | | | | | |
| UNK AROMATIC ALCOHOL (17 14) | | | 48 J | | | | | | |
| UNK AROMATIC AMINE (8 74) | | | | | | | | | |
| UNK AROMATIC AMINE (24 86) | | | | | | | | | |
| UNK AROMATIC AMINE (25 31) | | | | 61J | | | | | |
| UNK BENZENE METHANOL (16 58) | | | | | | | | | |
| UNK BENZENE SULFONATED (21 49) | | | | | | | | | |
| UNK BENZENEDIOL (16 44) | | | | | | | | | |
| UNK BENZENEAMINE (22 50) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+AROMA (21 35) | | | 390 J | | | | | | |
| UNK BENZENESULFONAMIDE+NITROBEN (21 02) | | | | | | | | | |
| UNK BENZENESULFONAMIDE+UNKOWN (21 10) | | | | | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (35 01) | | | | | | | | 21,000 J | |
| UNK BENZOFURAN + UNK BENZOYL (33 35) | | | | | | | | 12,000 J | |
| UNK BENZOIC ACID (18 67) | | | | | | | | | |
| UNK BENZOIC ACID (18 00) | 4 J | | | | | | | | |
| UNK BENZOIC ACID (18 97) | | | | 44 J | | | | | |
| UNK BENZOI[illegible] [illegible]ID (15 50) | | | | | | | | | 22 J |

EXTRACTABLE ANIC ANALYSIS

| ERM Midwest lumber | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18D | GW-S6 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory San ber | S292 | S292DL | S293 | 3RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK BENZOYL (16 23) | | | | 41 J | | | | | |
| UNK BENZOYL (21 86) | | | | | | | | | |
| UNK BENZOYL (23 62) | | | | | | | | | |
| UNK BENZOYL (23 76) | | | | | | | | | |
| UNK BENZOYL (24 10) | | | | | | | | | |
| UNK BENZOYL + UNK (15 13) | | | | | | | 740 J | | |
| UNK BENZYL ALCOHOL (18 67) | | | | 68 J | | | | | |
| UNK BIPHENYL (25 69) | | | | | | | | | |
| UNK BIPHENYL (26.83) | 3 J | | | | | | | | |
| UNK BIPHENYL SUBSTITUTED (26 80) | | | 86 J | | | 2300 J | | | |
| UNK BIPHENYLOL (20 27) | | | | | | | | 1100 J | |
| UNK BIPHENYLOL (20 33) | | | | | | | | | |
| UNK BIPHENYLOL (20 42) | | | | | | | | | 240 J |
| UNK BIPHENYLOL (20 55) | 120 J | | 170 J | 160 J | | | | | |
| UNK BIPHENYLOL (20.67) | | | | | | | | | |
| UNK BIPHENYLOL (26.73) | | | | | | 1400 J | | | |
| UNK BIPHENYLOL (26 85) | | | | | | | 2800 J | | |
| UNK BROMINATED ALIPHATIC (11.99) | | | | | | | | | |
| UNK BROMOALIPHATIC (12 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (13 96) | | | | | | | | | |
| UNK BROMOALIPHATIC (22 30) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 03) | | | | | | | | | |
| UNK BROMOALIPHATIC (8 22) | | | | | | | | | |
| UNK BROMOALKYL (12 11) | | | | | | | | | |
| UNK BROMOAROMATIC (16 83) | | | | | | | | | |
| UNK BROMOAROMATIC (20 21) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 79) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 83) | | | | | | 12,000 J | | | |
| UNK BROMOBENZOIC ACID (18 90) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (18 96) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 10) | | | 29 J | | | | | | |
| UNK BROMOBENZOIC ACID (19 19) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 25) | | | 26 J | 27 J | | | | | |
| UNK BROMOBENZOIC ACID (19 31) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 38) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 65) | 14 J | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 72) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (19 84) | | | | | | | | | |
| UNK BROMOBENZOIC ACID (20 24) | | | | | | | 25,000 J | | |
| UNK BROMOBENZOIC ACID (20 37) | | | | | | | 1400 J | | |
| UNK BROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK BROMOBENZOIC ACID+AROMATIC (20 34) | | | | | | | | | |
| UNK BROMODICHLORBENZENE (18 83) | | | | | | 1400 J | | | |

EXTRACTABLE GANIC ANALYSIS

| ERM-Midwest S : Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | R GW-T2RE | RNS-GW T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | RNS-GW S6 |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/l | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK CARBOXYLIC ACID (17 81) | | | | | | | | | |
| UNK CHLORINATED ALKLBENZENE (16 61) | | | | | | | | | |
| UNK CHLORINATED ALIPHATIC (28 51) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (19 77) | | | | | | | | | |
| UNK CHLORINATED AROMATIC (37 31) | | | 22 J | 21 J | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | 21 J | | | | | | |
| UNK CHLORINATED AROMATIC (20 83) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (22 79) | | | | | | | | | |
| UNK CHLORINATED BIPHENYL (26 49) | | | | 24 J | | | | | |
| UNK CHLORINATED BIPHENYL (29 54) | | | | | | | | | |
| UNK CHLORINATEDCYCLOHEXANONE (12 92) | | | | | | | | | |
| UNK CHLORINATED NAPTHYLENE (26 38) | | | | 21 J | | | | | |
| UNK CHLOROALKANOL (9 82) | | | | | | | | | |
| UNK CHLOROALKYL-AROMATIC (20 79) | | | | | | | | | |
| UNK CHLOROAROMATIC (36 07) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22.86) | | | 42 J | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22.91) | | | | | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 96) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (17 99) | | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18 76) | 6 J | | | | | | | | |
| UNK CHLOROBENZOIC ACID (18.85) | | | | | | | | | |
| UNK CHLOROBIPHENYL (26.39) | | | | | | | | | |
| UNK CHLOROBIPHENYLOL (22.79) | | | | | | 290 J | | | |
| UNK CHLOROBIPHENYLOL (28 51) | | | 26 J | | | | | | |
| UNK CHLOROBIPHENYL (26 52) | | | | | | | | | |
| UNK CHLORINATED BIPHENYLOL (28.53) | | | | 340 J | | | | | |
| UNK CHLOROCYCLOHEXANOL (12 48) | | | 28 J | | | | | | |
| UNK CHLOROCYCLOHEXANONE (12 97) | | | | | | | | | |
| UNK CHLOROETHENYLBENZENE (13 28) | 4 J | | | | | | | | |
| UNK CHLORONITROAROMATIC (36 06) | | | | | | | | | |
| UNK CYCLIC ALCOHOL (9 39) | | | | 31 J | | | | | |
| UNK CYCLIC ALIPHATIC (15 90) | | | | | | | | | |
| UNK CYCLOALKANOL (9 47) | | | | | | | | | |
| UNK CYCLOHEXANE (13 22) | | | | | | | | | |
| UNK CYCLOHEXANOL (9 42) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 43) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 47) | | | | | | | | | |
| UNK CYCLOHEXANOL (12 52) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 45) | | | | | | | | | |
| UNK CYCLOHEXENOL (9 49) | | | | | | | | | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | | | | | | | | | |
| UNK CYCLOHEXYL (12 47) | | | | | | | | | |
| UNK DIBROMOALIPHATIC (13 81) | | | | | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM Midwes Number | RNS GW T1 | RNS GW-T1DL | RNS-GW-T2 | V-T2RE | RNS GW-T2DL | RNS GW S18 | RNS GW S18RE | RNS GW-S18D | GW-S6 |
| Laboratory Sam nber | S292 | S292DL | S293 | 93RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK DIBROMOBENZENE (22 82) | | | | | | | | | |
| UNK DIBROMOBENZENE (22 75) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 82) | | | | | | | | | |
| UNK DIBROMOBENZOIC ACID (22 93) | | | | | | | 2200 J | | |
| UNK DIBROMOAROMATIC (22 90) | | | | | | | | | |
| UNK DICHLOROALKANOL (9 67) | | | | | | 2800 J | | | |
| UNK DICHLOROAROMATIC (28 54) | | | | | | | | | |
| UNK DICHLOROBIPHENYL (24 80) | | | | 28 J | | | | | |
| UNK DIMETHYLPYRIDINE (12 31) | | | | | | | | | |
| UNK HALOGENATED ALIPHATIC (13 64) | | | | | | | | | 18 J |
| UNK IMADAZOLIDINDIONE (16 78) | | | | | | | | | |
| UNK IMADAZOLIDINDIONE (17 01) | | | | | | | | | |
| UNK METHBENZENESULFONIC ACID (22 81) | | | | | | | | | 25 J |
| UNK MIX BENZENESULFONYL (21.05) | 4 J | | | | | | | | |
| UNK MIX TRIMETH PHENOL/AROMA (20 85) | | | | | | | | | |
| UNK N-PHENYLSULFONYL/BENSULF (30.18) | | | | | | | | | |
| UNK NITROANILINE (23 16) | 190 J | | | | | | | | |
| UNK NITROANILINE (23 30) | | | | | | 760 J | | | |
| UNK NITROAROMATIC (20 18) | | | | | | | | | |
| UNK NITROAROMATIC (20 23) | | | | | | | | | |
| UNK NITROAROMATIC (22 06) | | | | | | | | 2100 J | |
| UNK NITROAROMATIC (22 15) | | | | | | 1600 J | | | |
| UNK NITROAROMATIC (22.21) | | | | | | | | | |
| UNK NITROAROMATIC (22 30) | | | | | | | | 3900 J | |
| UNK NITROAROMATIC (22 56) | | | | | | | 5600 J | | |
| UNK NITROAROMATIC (22.44) | | | | | | 12,000 J | | | |
| UNK NITROBENZENE (22 11) | | | | | | | | | |
| UNK NITROBENZENE (22 40) | | | | | | | | | |
| UNK NITROBENZENEAMINE (22 21) | | | | | | | | | |
| UNK NITROFLUOROBENZENE (12 85) | | | | 140 J | | | | | |
| UNK NITROGEN CONTAINING (12 23) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLIC (12 30) | | | | | | | | | |
| UNK NITROGEN HETEROCYCLE (15 78) | 11 J | | | | | | | | |
| UNK METHYLNITROBENZENE AMINE (23 32) | | | | | | | 4800 J | | |
| UNK PHENYLSULFONYLBENXSULFON (30 20) | | | | | | | | | |
| UNK POLYHALOGENATED ALIPHATIC (13 93) | | | | | | | 8500 J | | |
| UNK SUBST MORPHOLINE (26 75) | | | | | | | | | |
| UNK SUBST BENZENEMETHANOL (16 22) | | | | | | | | | |
| UNK SUBST BENZENESULFONAMIDE (21 89) | | | | | | | | | |
| UNK SUBST BENZYL ALCOHOL (17 26) | 6 J | | | | | | | | |
| UNK SUBST BIPHENYL (26 86) | | | | 66 J | | | | | |
| UNK SUBST BROMOBENZENE (29 52) | | | | 100 J | | | | | |
| UNK SUBST BROMOBENZOIC ACID (19 04) | | | | | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest S. Number | RNS-GW-T1 | RNS-GW-T1DL | RNS-GW-T2 | R. GW-T2RE | RNS-GW-T2DL | RNS-GW-S18 | RNS-GW-S18RE | RNS-GW-S18DL | GW-S6 |
| Laboratory Sample Number | S292 | S292DL | S293 | S293RE | S293DL | S294 | S294RE | S294DL | S295 |
| Remarks | | Dilution | | Reanalysis | Dilution | | Reanalysis | Dilution | |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | | | | |
| UNK SUBST CHLORINATED BENZENE (36 02) | 47 J | | | | | | | | |
| UNK. SUBST BIPHENYL (26 95) | | | | | | | | | 360 J |
| UNK SUBST BIPHENYL (26 50) | | | | | | | | | |
| UNK SUBST BIPHENYL (26 73) | | | 340 J | | | | | | 18 J |
| UNK SUBST PHENYLBUTENONE (17 96) | | | | | | | | 1200 | |
| UNK. SULFONATED AROMATIC (25 89) | 56 J | | | | | | | | |
| UNK. SULFONATED BENZENE (30.09) | | | 2300 J | | | | | | |
| UNK. SULFONYL BENZENE (18 51) | | | | | | | | | |
| UNK SULFONYLBENZENE (25 66) | | | | | | | | | |
| UNK TRICHLOROALIPHATIC (10 23) | | | | | | | 4400 J | | |
| UNK. TRICHLOROALIPHATIC (20 66) | | | | | | | | | |
| UNK. TRIFLUOROMET ANILINE (12.79) | | | | | | | | | |
| UNK. TRIFLUOROMET BENZEAMINE (12.83) | | | | | | | | | |
| UNK TRIFLUOROMET BENZENAMINE (12 82) | | | | 890 J | | | | | |
| UNK. TRIFLUOROMETBENZEAMINE (11 48) | | | | | | | | | |
| UNK. TRIFLUOROMETBENZENAMINE (12.79) | | | | | | | | | |
| UNK TRIFLUOROMETHBENZENAMINE (12 78) | | | | | | | | | |
| UNK. TRIFLUOROMETHYL ANLINE (12 84) | | | | | | | | | |
| UNK TRIFLUOROMETHYLBENZENAM (11.49) | | | 920 J | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW | RNS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296R | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| 1,1'-BIPHENYL-2-OL (20 31) | | | | | |
| 1,1'-BIPHENYL-2-OL (20 36) | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 20) | | 7 J | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17 47) | | | | | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | 47 R | |
| 1,2-CYCLOHEXANDIOL (13 04) | | | | | |
| 1H-INDOLE-3-ETHANOL, 5-HYDRO (22 87) | | | | | |
| 3-BUTEN-2-ONE, 4-PHENYL- (18 14) | | | | | |
| 2-CYCLOHEXEN-1-ONE (10 42) | | | 24 R | 30 R | |
| 2-CYCLOHEXEN-1-ONE (10 49) | | 27 R | | | 2 R |
| CYCLOPENTANECARBOXALDEHYDE (8 40) | | 8 J | | | |
| 2-PROPANOL, 1,3-DICHLORO- (9 62) | | | | | |
| 4-BENZOYLMORPHOLINE (22 77) | | | | | |
| BENYOYL GLYCINE+UNKNOWN (23 58) | | | | | |
| BENZAMIDE (18 31) | | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 46) | | | | | |
| BENZAMIDE (18 98) | | | | | |
| BENZENE, 1,1'-SULFONYLBIS (25 55) | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 86) | | | | | |
| BENZENE,1-NITRO-3-(TRIFLUOR) (12 90) | | | | | |
| BENZENESULFONAMIDE (20 66) | 1700 J | | | | |
| BENZENESULFONAMIDE (20 70) | | | | | |
| BENZENESULFONAMIDE (20.74) | | | | | |
| BENZENESULFONAMIDE (20.78) | | | | | |
| BENZENESULFONAMIDE (20 86) | | | | 2800 J | |
| BENZENESULFONAMIDE (20 91) | | | | | |
| BENZENESULFONAMIDE (21 11) | | | | | |
| BENZENESULFONAMIDE (21 29) | | | 2100 J | | |
| BENZENESULFONAMIDE (21 34) | | | | | |
| BENZENESULFONAMIDE (21 47) | | | | | |
| BENZENESULFONAMIDE (21.54) | | | | | |
| BENZENESULFONAMIDE (21 59) | | | | | |
| BENZENESULFONAMIDE (21 63) | | | | | |
| BENZENESULFONAMIDE (21 68) | | 2700 J | | | |
| BENZENESULFONAMIDE, 2-METHYL (21 78) | | | 24 J | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 38) | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (22 98) | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 14) | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 30) | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 14) | | | | 79 J | |
| BENZENESULFONAMIDE, 4-METHYL (22 28) | | | 89 J | | |
| BENZENESULFONAMIDE, 4-METHYL (22 33) | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 46) | | 100 J | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest S. a Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW-D6, | RNS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 79) | | | | | |
| BENZENESULFONAMIDE, 4-METHYL (22 84) | | | | | |
| BENZENESULFONAMIDE, 4-METHYL+UNK (23 06) | | | | | |
| BENZENESULFONAMIDE, N-PHENYL (30 08) | | | 39 J | | |
| BENZENESULFONAMIDE+UNK AROMATIC (20 76) | | | | | |
| BENZENESULFONAMIDE+UNK NITROAROM (20 92) | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 01) | | | | | |
| BENZENESULFONAMIDE+UNKNOWN (21 83) | | | | | |
| BENZENESULFONAMIDE+UNK AROMA (21 56) | | | | | |
| BENZENESULFONAMINDE+UNK (21 59) | | | | | |
| BENZOIC ACID (14 72) | | | | | |
| BENZOIC ACID (14 77) | | | | | |
| BENZOIC ACID (14 84) | | | | | |
| BENZOIC ACID (15 03) | | | | | |
| BENZOIC ACID (15 56) | | | | | |
| BENZOIC ACID (15 90) | | | | | |
| BENZOIC ACID (18 30) | | | | | |
| BENZOIC ACID (18 42) | | | | | |
| BENZOIC ACID + MIX UNKNOWN (18 46) | | | | | |
| BENZOIC ACID + UNKNOWN (15 29) | | | | | |
| BENZOIC ACID + UNKNOWNS (17 53) | | | | | |
| BENZOIC ACID + UNKNOWNS (18 01) | | | | | |
| BENZOIC ACID + UNKNOWNS (18 25) | | | | | |
| BENZOIC ACID + UNKCHLORPHENYE(16 20) | | | | | |
| BENZOIC ACID , 2-BROMO- (18 80) | | | | | |
| BENZOIC ACID, 2-BROMO- (18 96) | | | | | |
| BENZOIC ACID, 2-BROMO- (19.04) | | | | | |
| BENZOIC ACID, 2-BROMO- (19.80) | | | | | |
| BENZONITRILE (11 57) | | | | | |
| BENZONITRILE (11 85) | | | | | |
| BENZONITROLE (11 63) | | | | | |
| BENZOPHENONE (21 87) | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (18.79) | | | | | |
| BROMOBENZOIC ACID+UNKNOWN (19 86) | | | | | |
| CARBOXYLIC ACID (17 82) | | | | | |
| CHLOROBENZENESULFONAMIDE (23 04) | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 27) | | | | | |
| CHLOROBENZENESULFONAMIDE+UNK (23 34) | | | | | |
| DECANOIC ACID (17 80) | | | | | |
| DIBROMOBENZOIC ACID (22 74) | | | | | |
| 5,5-DIPH 2,4-IMIDAZOLIDINEDIONE (29 74) | | | | | |
| DIPHENYLMETHANONE (22 04) | | | | | |
| DIPHENYLMETHANONE+UNK (22 03) | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW- | IS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory San., .iber | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| DODECANAMIDE, N,N-BIS(2-HYDR) (20 51) | | | | | |
| ETHANEDIONE, DIPHENYL- (24 06) | | | | | |
| ETHANONE, 1-PHENYL- (13 17) | | | | | |
| ETHANONE, 1-PHENYL- (13 21) | | | | | |
| ETHANONE, 1-PHENYL- (13 26) | | | | | |
| ETHYLMETHYLBENZENESULFONAMID (22 90) | | | | | |
| IMIDAZOLIDINEDIONE UNK SUBS (16 90) | | | | | |
| METHANONE, DIPHENYL- (21 85) | | | | | |
| METHYLSULFONYLBENZENE (18 52) | | | | | |
| 1-PHENYLETHANONE + UNK. (13 14) | | | 4 J | | |
| MIX ALIPHATIC UNKOWNS (20.78) | | | | | |
| MIX ANILINE + CHLOROALIPHATIC (20 72) | | | | | |
| MIX AROMATIC + UNKNOWNS (18.16) | | | | | |
| MIX AROMATIC UNKNOWNS (18 79) | | | | | |
| MIX BENYOYL+HYDROXYBENZOIC A (18 24) | | | | | |
| MIX BENZOIC ACID+UNK (19.12) | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (14.82) | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (16 32) | | | | | |
| MIX BENZOIC ACID+UNKNOWNS (17.44) | | | | | |
| MIX BENZOIC ACID+UNK ALIPHATIC(18 56) | | | | | |
| MIX BENZOYL+UNKNOWN (23 73) | | | | | |
| MIX BENZOYL+UNK ALKOYBENZENE (15.78) | | | | | |
| MIX BENZSULFONAMIDE/UNKNOWN (20.98 | | | | | |
| MIX BROMOALKYL+UNKNOWNS (13.88) | | | | | |
| MIX BROMOALKYL+UNKNOWNS (8.20) | | | | | |
| MIX BROMOBENZOIC+NITROPHENET (19 94) | | | | | |
| MIX CHLORINATED ALIPHATIC (12.83) | | | | | |
| MIX CHLORINATED AROMATIC+UNK(26 35) | | | | | |
| MIX CHLOROBENZOIC ACID+UNK (17 99) | | 8 J | | | |
| MIX CHLOROBENZOIC ACID+UNK (19.06) | | | | | |
| MIX CYANOBENZENE+UNKNOWNS (28 31) | | | | | |
| MIX NETHYL4METHYLBENZULFA+UN(22 96) | | | | | |
| MIX NITROBENZOIC ACID+CHLBENS(21 10) | | | | | |
| MIX SUB BENZENESULFONAMIDE&SILA (30 09) | | | | | |
| MIX SULFONATED BENZENE+UNK (21 46) | | | 4 J | | |
| MIX UNK ALIPHATIC & SILANE (30 26) | | | | | |
| MIX UNK ALIPHATIC & SILANE (31 26) | | | | | |
| MIX UNK ALIPHATIC & SILANE (32 22) | | | | | |
| MIX UNK ALIPHATIC & SILANE (34 04) | | | | | |
| MIX UNK ALIPHATIC (20 77) | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (31 19) | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (32 23) | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 39) | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest S. e Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW-D6. | NS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (33 44) | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 82) | | | | | |
| MIX UNK ALIPHATIC HYDRO&SILANE (34 87) | | | | | |
| MIX UNK ALIPHATICS (13 95) | | | | | |
| MIX UNK ALIPHATICS (16 89) | | | | | |
| MIX UNK ALKOXYBENZENE+UNK (16 10) | | | | | |
| MIX UNK ALKYLBENZENE (17 98) | | | | | |
| MIX UNK AROMATICS (20 23) | | | | | |
| MIX UNK AROMATIC (20 67) | | | | | |
| MIX UNK AROMATIC (20 76) | | | | | |
| MIX UNK AROMATIC (20 88) | | | | | |
| MIX UNK AROMATIC (21 13) | | | | | |
| MIX UNK AROMATIC (23 05) | | | | | |
| MIX UNK AROMATIC (25 63) | | | | | |
| MIX UNK AROMATIC +UNK (30 92) | | | 13 J | | |
| MIX UNK AROMATIC+UNK ALIPHAT | | | | | |
| MIX UNK AROMATICS (27 06) | | | | | |
| MIX UNK AROMATICS (37 26) | | | | | |
| MIX UNK BENZOIC ACID+CHLOROP (15.37) | | | | | |
| MIX UNK BENZYL ALCOHOL (18.67) | | | | | |
| MIX UNK BROMOBENZOIC ACID (19 24) | | | | | |
| MIX UNK DICHLOROPHENOL+BENZO (18 72) | | | | | |
| MIX UNK FLUORINATED AROMATIC (23 11) | | | | | |
| MIX UNK HYDROCARB+CHLOROHYD (28 50) | | | | | |
| MIX UNK NITROBENZENEAMINE+UNK (22 52) | | | | | |
| MIXTURE UNKNOWNS (11 43) | | | | | |
| MIXTURE UNKNOWNS (11 60) | | | | | |
| MIXTURE UNKNOWNS (13 71) | | | | | |
| MIXTURE UNKNOWNS (13.95) | | | | | |
| NITROAROMITIC UNKNOWNS | | | | | |
| NITROBENZEN+BENZOIC ACID MIX (16 41) | | | | | |
| 1,4-PENTADIENE-3-ONE,1,5-DIPHEN (29.39) | | | | | |
| PHENYLETHANONE (13 23) | | | | | |
| PHENYLETHANONE (13 33) | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 61) | | | | | |
| PHENOL,2,4-DICHLORO-,BENZENE (27 66) | | | | | |
| 2-PROPEN-1-ONE,1-(NITROPHENYL) (30 03) | | | | | |
| SULFUR, MOL (S8) (25 79) | | | | | |
| 1,1-SULFONYLBISBENZNE (25 22) | | | | | |
| TRIFLUOROMET ANILINE SUB UNK (12 82) | | | | | |
| TRIFLUOROMETBENZENAMINE+UNK (12 88) | | | | | |
| UNK ACETYL (18 78) | | | | | |
| UNK ACID (16 | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwes Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW | NS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK ALIPHATIC (9 48) | | | 4 J | | |
| UNK ALIPHATIC (12 23) | | | | | |
| UNK ALIPHATIC (12 33) | | | | | |
| UNK ALIPHATIC (16 32) | | 5 J | | | |
| UNK ALIPHATIC (19 73) | | | 4 J | | |
| UNK ALIPHATIC (20 66) | | | | | |
| UNK ALIPHATIC (26 84) | | | | | |
| UNK ALIPHATIC (9 62) | | | | | |
| UNK ALIPHATIC + SILANE (31 30) | | | | | |
| UNK ALIPHATIC ACID (19 63) | | | | | |
| UNK ALIPHATIC ACID (20 50) | | | | | |
| UNK ALIPHATIC ALCOHOL (11 85) | | | | | |
| UNK ALIPHATIC AMINE (8 78) | | 6 R | | | 5 R |
| UNK ALIPHATIC AMINE (8 82) | | | | | |
| UNK. ALIPHATIC HYDROCARB (8 34) | | | 4 J | | |
| UNK ALIPHATIC HYDROCARB (12 23) | | | | | |
| UNK ALIPHATIC HYDROCARB (12 35) | | | | | |
| UNK. ALIPHATIC HYDROCARB (12 44) | | | | | |
| UNK ALIPHATIC HYDROCARB (20 52) | | | | | |
| UNK ALIPHATIC HYDROCARB (27 60) | | | | | |
| UNK ALIPHATIC HYDROCARB (28 52) | | | | | |
| UNK ALIPHATIC HYDROCARB (29 41) | | | | | |
| UNK ALIPHATIC HYDROCARB (30 24) | | | | | |
| UNK ALIPHATIC HYDROCARB (31 15) | | | | | |
| UNK ALIPHATIC HYDROCARB (31 19) | | | | | |
| UNK ALIPHATIC HYDROCARB (32 19) | | | | | |
| UNK ALIPHATIC HYDROCARB (32 23) | | | | | |
| UNK ALIPHATIC HYDROCARB (33 44) | | | | | |
| UNK ALIPHATIC HYDROCARB (34.81) | | | | | |
| UNK. ALIPHATIC HYDROCARB (34 87) | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (29 41) | | | | | 3 J |
| UNK ALIPHATIC HYDRO+SILANE (30 27) | | | | | |
| UNK ALIPHATIC HYDRO+SILANE (31 18) | | | | | |
| UNK ALIPHATIC POLYCHLORINAT (32.23) | | | | | |
| UNK ALKOXYBENZENE (15 69) | | | | | |
| UNK ALKOXYBENZENE (16 00) | 630 J | | 130 J | 170 J | |
| UNK ALKOXYBENZENE (16 04) | | 110 J | | | |
| UNK ALKOXYBENZENE (16 09) | | | | | |
| UNK ALKOXYBENZENE (16 18) | | | | | |
| UNK ALKOXYBENZENE (18 31) | | | | | |
| UNK ALKOXYBENZENE (18 93) | | | | | |
| UNK ALKOXYETHANOL (11 88) | | | | | |
| UNK ALKOXYETHANOL (11 89) | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest S. : Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW-D6. | RNS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK ALKOXY SUB ALIPHATIC ALC (15 19) | | | | | |
| UNK ALKYL AMINE (8 82) | | | | | |
| UNK ALKYLBENZENE (8 89) | | | | | |
| UNK ALKYLBENZENE (9 16) | | | | | |
| UNK ALKYLBENZENE ALKOXY SUB (24 76) | | | | | |
| UNK ALKYLPYRIDINE (12 25) | | | | | |
| UNK AMINE (12 26) | | | | | |
| UNK AMINO BENZOIC ACID (20 50) | | | | | |
| UNK AMINOPHENYLETHANONE (17.19) | | | | | |
| UNK AMINOPHENYLETHANONE (19 95) | | | | | |
| UNK AMINOPHENYLETHANONE (20 02) | | | | | |
| UNK AROMATIC (17 02) | | | | | |
| UNK AROMATIC (17 25) | | | | | |
| UNK AROMATIC (17 94) | | | 6 J | | |
| UNK AROMATIC (17 99) | | | | | |
| UNK AROMATIC (18 50) | | | | | |
| UNK AROMATIC (22 17) | | | | | |
| UNK AROMATIC (23 14) | | | | | |
| UNK AROMATIC (23 31) | | | | | |
| UNK AROMATIC (25 24) | | | | | |
| UNK AROMATIC (26 49) | | | 23 J | | |
| UNK AROMATIC (26 55) | | 29 J | | | |
| UNK AROMATIC (38 55) | | | | | |
| UNK AROMATIC (40 19) | | | | | |
| UNK AROMATIC (41 06) | | | | | |
| UNK AROMATIC ACID (16 33) | | | | | |
| UNK AROMATIC ALCOHOL (17 14) | | | | | |
| UNK AROMATIC AMINE (8.74) | | | 4 J | | |
| UNK AROMATIC AMINE (24 86) | | | | | |
| UNK AROMATIC AMINE (25 31) | | | | | |
| UNK BENZENE METHANOL (16 58) | | | | | |
| UNK BENZENE SULFONATED (21 49) | | | | | |
| UNK BENZENEDIOL (16 44) | | | | | |
| UNK BENZENEAMINE (22 50) | | | | | |
| UNK BENZENESULFONAMIDE+AROMA (21 35) | | | | | |
| UNK BENZENESULFONAMIDE+NITROBEN (21 02) | | | | | |
| UNK BENZENESULFONAMIDE+UNKOWN (21 10) | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (35 01) | | | | | |
| UNK BENZOFURAN + UNK BENZOYL (33 35) | | | | | |
| UNK BENZOIC ACID (18 67) | | | | | |
| UNK BENZOIC ACID (18 00) | | | | | |
| UNK BENZOIC ACID (18 97) | | | | | |
| UNK BENZOIC ACID (15 50) | | | | | |

| EXTRACTABLE ANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM Midwes Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW | S-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sa. . .nber | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK BENZOYL (16 23) | | | | | |
| UNK BENZOYL (21 86) | | | | | |
| UNK BENZOYL (23 62) | | | | | |
| UNK BENZOYL (23 76) | | | | | |
| UNK BENZOYL (24 10) | | | | | |
| UNK BENZOYL + UNK (15 13) | | | | | |
| UNK BENZYL ALCOHOL (18 67) | | | | | |
| UNK BIPHENYL (25 69) | | | | | |
| UNK BIPHENYL (26 83) | | | | | |
| UNK BIPHENYL SUBSTITUTED (26 80) | | | | | |
| UNK BIPHENYLOL (20 27) | | | 8 J | | |
| UNK BIPHENYLOL (20 33) | | 9 J | | | |
| UNK BIPHENYLOL (20 42) | | | | | |
| UNK BIPHENYLOL (20 55) | | | | | |
| UNK BIPHENYLOL (20 67) | | | | | |
| UNK BIPHENYLOL (26 73) | | | | | |
| UNK BIPHENYLOL (26 85) | | | | | |
| UNK BROMINATED ALIPHATIC (11 99) | | | | | |
| UNK BROMOALIPHATIC (12 03) | | | | | |
| UNK BROMOALIPHATIC (13 96) | | | | | |
| UNK BROMOALIPHATIC (22 30) | | | | | |
| UNK BROMOALIPHATIC (8 03) | | | | | |
| UNK BROMOALIPHATIC (8 22) | | | | | |
| UNK BROMOALKYL (12 11) | | | | | |
| UNK BROMOAROMATIC (16 83) | | | | | |
| UNK BROMOAROMATIC (20 21) | | | | | |
| UNK BROMOBENZOIC ACID (18.79) | | | 17 J | 25 J | |
| UNK BROMOBENZOIC ACID (18 83) | | 12 J | | | |
| UNK BROMOBENZOIC ACID (18 90) | | | | 43 J | |
| UNK BROMOBENZOIC ACID (18 96) | | | 120 J | | |
| UNK BROMOBENZOIC ACID (19 10) | | 180 J | 68 J | | |
| UNK BROMOBENZOIC ACID (19 19) | | 49 J | | | |
| UNK BROMOBENZOIC ACID (19 25) | | | | | |
| UNK BROMOBENZOIC ACID (19 31) | | | 7 J | | |
| UNK BROMOBENZOIC ACID (19 38) | | 9 J | | | |
| UNK BROMOBENZOIC ACID (19 65) | | | | | |
| UNK BROMOBENZOIC ACID (19 72) | | | | | |
| UNK BROMOBENZOIC ACID (19 84) | | | | | |
| UNK BROMOBENZOIC ACID (20 24) | | | | | |
| UNK BROMOBENZOIC ACID (20 37) | | | | | |
| UNK BROMOBENZOIC ACID (22 82) | | | | | |
| UNK BROMOBENZOIC ACID+AROMATIC (20 34) | | | | | |
| UNK BROMODICHLORBENZENE (16 83) | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest S. e Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW-D6. | RNS GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK CARBOXYLIC ACID (17 81) | | | | | |
| UNK CHLORINATED ALKLBENZENE (16 61) | | | | | |
| UNK CHLORINATED ALIPHATIC (28 51) | | | | | |
| UNK CHLORINATED AROMATIC (19 77) | | | | | |
| UNK CHLORINATED AROMATIC (37 31) | | | | | |
| UNK CHLORINATED AROMATIC (20 77) | | | | | |
| UNK CHLORINATED AROMATIC (20 83) | | | | | |
| UNK CHLORINATED BIPHENYLOL (22 79) | | | | | |
| UNK CHLORINATED BIPHENYL (26 49) | | | | | |
| UNK CHLORINATED BIPHENYL (29 54) | | | | | |
| UNK CHLORINATEDCYCLOHEXANONE (12 92) | | | 7 J | | |
| UNK CHLORINATED NAPTHYLENE (26 38) | | | | | |
| UNK CHLOROALKANOL (9 82) | | | | | |
| UNK CHLOROALKYL-AROMATIC (20 79) | | | | | |
| UNK CHLOROAROMATIC (36 07) | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 86) | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 91) | | | | | |
| UNK CHLOROBENZENESULFONAMIDE (22 96) | | | | | |
| UNK CHLOROBENZOIC ACID (17 99) | | | | | |
| UNK CHLOROBENZOIC ACID (18 76) | | | | | |
| UNK CHLOROBENZOIC ACID (18 85) | | | | | |
| UNK CHLOROBIPHENYL (26 39) | | | | | |
| UNK CHLOROBIPHENYLOL (22 79) | | | | | |
| UNK CHLOROBIPHENYLOL (28 51) | | | | | |
| UNK CHLOROBIPHENYL (26 52) | | | | | |
| UNK CHLORINATED BIPHENYLOL (28 53) | | | | | |
| UNK CHLOROCYCLOHEXANOL (12 48) | | | | | |
| UNK CHLOROCYCLOHEXANONE (12 97) | | 5 J | | | |
| UNK CHLOROETHENYLBENZENE (13 28) | | | | | |
| UNK CHLORONITROAROMATIC (36 06) | | | | | |
| UNK CYCLIC ALCOHOL (9 39) | | | | | |
| UNK CYCLIC ALIPHATIC (15 90) | | | | | |
| UNK CYCLOALKANOL (9 47) | | 22 J | | | |
| UNK CYCLOHEXANE (13 22) | | | 5 R | | |
| UNK CYCLOHEXANOL (9 42) | | | 25 R | | |
| UNK CYCLOHEXANOL (12 43) | | | | 360 R | |
| UNK CYCLOHEXANOL (12 47) | | | 240 R | | |
| UNK CYCLOHEXANOL (12 52) | | 250 R | | | |
| UNK CYCLOHEXENOL (9 45) | | | | 36 R | |
| UNK CYCLOHEXENOL (9 49) | | | | | |
| UNK CYCLOHEXENOL+UNK MIX (9 42) | | | | | |
| UNK CYCLOHEXYL (12 47) | | | | | |
| UNK DIBROMOALIPHATIC (13 81) | | | | | |

| EXTRACTABLE GANIC ANALYSIS | | | | | |
|---|---|---|---|---|---|
| ERM-Midwest Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW- | IS-GW-D6DL | RNS-GW-S6-111 |
| Laboratory Sam nber | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK DIBROMOBENZENE (22 82) | | | | | |
| UNK DIBROMOBENZENE (22 75) | | | | | |
| UNK DIBROMOBENZOIC ACID (22 82) | | | | | |
| UNK DIBROMOBENZOIC ACID (22 93) | | | | | |
| UNK DIBROMOAROMATIC (22 90) | | | | | |
| UNK DICHLOROALKANOL (9 67) | | | | | |
| UNK DICHLOROAROMATIC (28 54) | | | | | |
| UNK DICHLOROBIPHENYL (24 80) | | | | | |
| UNK DIMETHYLPYRIDINE (12 31) | | | | | |
| UNK HALOGENATED ALIPHATIC (13 64) | | | | | |
| UNK IMADAZOLIDINDIONE (16 78) | | | | | |
| UNK IMADAZOLIDINDIONE (17 01) | | | | | |
| UNK METHBENZENESULFONIC ACID (22 81) | | | | | |
| UNK MIX BENZENESULFONYL (21 05) | | | | | |
| UNK MIX TRIMETH PHENOL/AROMA (20 85) | | | | | |
| UNK N-PHENYLSULFONYL/BENSULF (30.18) | | | | | |
| UNK NITROANILINE (23.16) | | | | | |
| UNK NITROANILINE (23 30) | | | | | |
| UNK NITROAROMATIC (20.18) | | | 5 J | | |
| UNK NITROAROMATIC (20 23) | | 7 J | | | |
| UNK NITROAROMATIC (22 06) | | | | | |
| UNK NITROAROMATIC (22 15) | | | | | |
| UNK NITROAROMATIC (22 21) | | | | | |
| UNK NITROAROMATIC (22 30) | | | | | |
| UNK NITROAROMATIC (22 56) | | | | | |
| UNK NITROAROMATIC (22 44) | | | | | |
| UNK NITROBENZENE (22 11) | | | | | |
| UNK NITROBENZENE (22 40) | | | | | |
| UNK NITROBENZENEAMINE (22 21) | | | | | |
| UNK NITROFLUOROBENZENE (12 85) | | | | | |
| UNK NITROGEN CONTAINING (12 23) | | | | | |
| UNK NITROGEN HETEROCYCLIC (12 30) | | | | | |
| UNK NITROGEN HETEROCYCLE (15 78) | | | | | |
| UNK METHYLNITROBENZENE AMINE (23 32) | | | | | |
| UNK PHENYLSULFONYLBENXSULFON (30 20) | | | | | |
| UNK POLYHALOGENATED ALIPHATIC (13 93) | | | | | |
| UNK SUBST MORPHOLINE (26 75) | | | | | |
| UNK SUBST BENZENEMETHANOL (16 22) | | | | | |
| UNK SUBST BENZENESULFONAMIDE (21 89) | | 29 J | | | |
| UNK SUBST BENZYL ALCOHOL (17 26) | | | | | |
| UNK SUBST BIPHENYL (26 86) | | | | | |
| UNK SUBST BROMOBENZENE (29 52) | | | | | |
| UNK SUBST BROMOBENZOIC ACID (19 04) | | | | | |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest S. Number | RNS-GW-S6DL | RNS-GW-D6 | RNS-GW-D6. | RNS-GW-D6DL | RNS-GW-S6-111 |
|---|---|---|---|---|---|
| Laboratory Sample Number | S295DL | S296 | S296RE | S296DL | S297 |
| Remarks | Dilution | | Reanalysis | Dilution | Field Blank |
| Units | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | |
| UNK. SUBST CHLORINATED BENZENE (36.02) | | | | | |
| UNK. SUBST BIPHENYL (26.95) | | | | | |
| UNK. SUBST BIPHENYL (26.50) | | | | | |
| UNK. SUBST BIPHENYL (26.73) | | 6 J | | | |
| UNK. SUBST PHENYLBUTENONE (17.96) | | | | | |
| UNK. SULFONATED AROMATIC (25.89) | | | | | |
| UNK. SULFONATED BENZENE (30.09) | | | | | |
| UNK. SULFONYL BENZENE (18.51) | | 5 J | | | |
| UNK. SULFONYLBENZENE (25.66) | | | | | |
| UNK. TRICHLOROALIPHATIC (10.23) | | | | | |
| UNK. TRICHLOROALIPHATIC (20.66) | | | | | |
| UNK. TRIFLUOROMET ANILINE (12.79) | | | | | |
| UNK. TRIFLUOROMET BENZEAMINE (12.83) | | | | | |
| UNK. TRIFLUOROMET BENZENAMINE (12.82) | | | | | |
| UNK. TRIFLUOROMETBENZEAMINE (11.48) | | | | | |
| UNK. TRIFLUOROMETBENZENAMINE (12.79) | | | | | |
| UNK. TRIFLUOROMETHBENZENAMINE (12.78) | | | | | |
| UNK. TRIFLUOROMETHYL ANLINE (12.84) | | | | | |
| UNK. TRIFLUOROMETHYLBENZENAM (11.49) | | | | | |

| EXTRACTABI RGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwe ple Number | RNS-GW-GUB | RNS-GW-GUBD | GW-RW1 | RNS-GW-RW1DL | RNS-GW-S22 | RNS-GW-S22DL | R. -RW1-112 |
| Laboratory Sa... Number | S301 | S301DL | S304 | S304DL | S305 | S305DL | S306 |
| Remarks | | Dilution | | Dilution | Duplicate of RNS-GW-RW1 | Duplicate of RNS-GW-RW1 | Field Blank |
| Units | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | Dilution | |
| 1,2-CYCLOHEXANDIOL (13 00) | | | | | | | 11 R |
| 1,2-CYCLOHEXANDIOL (13 06) | 45 R | | | | | | |
| 1,2-ETHANEDIOL, 1-PHENYL (17.15) | | | 19 J | | | | |
| 2-CYCLOHEXEN-1-ONE (10 46) | 14 J | | | | | | |
| 2•TRIFLUORORMET BENZAMINE+UNK (11.49) | | | 24 J | | | | |
| BENZENAMINE, 2- (TRIFLUOROMET) (11 48) | 9 J | | | | | | |
| BENZENAMINE, 3- (TRIFLUOROMET) (12 80) | 110 J | 100 J | | | | | |
| BENZENESULFONAMIDE (20 64) | | | 27 J | | 21 J | | |
| BENZENESULFONAMIDE (20.77) | | 2400 J | | | | | |
| BENZENESULFONAMIDE+UNK AROMA (21.75) | 2800 J | | | | | | |
| BENZENESULFONAMIDE, 4-CHLORO (23 24) | 11 J | | | | | | |
| BENZENESULFONAMIDE, N-PHENYL (30.14) | 55 J | | | | | | |
| BENZOIC ACID (14.90) | | | | | 23 J | | |
| BENZOPHENONE (21.87) | 3 J | | | | | | |
| CHLOROETHENYLBENZENE+UNK (14.18) | | | | | 110 J | | |
| ETHANONE, 1-PHENYL- (13.21) | | | | | 16 J | | |
| METHANONE, DIPHENYL- (21.83) | | | 48 J | | 48 J | | |
| MIX PENTACHLOROETHANE+UNK (11 44) | | | | | 340 J | | |
| MIX SULFONATED PHENYL NAPHTH (26 59) | 8 J | | | | | | |
| MIX UNK AROMATIC (20.81) | | | 760 J | | | | |
| MIX UNK AROMATIC (26.48) | 4 J | | | | | | |
| MIX UNK AROMATIC AMINE (20.80) | | | | | 660 J | | |
| PHENOL,2,4-DICHLORO-, BENSUL (27.62) | | | 36 J | | 40 J | | |
| S-PHEN ESTER BENZSULFONOTHIO (26.82) | 3 J | | | | | | |
| UNK. 4-TRIFLUOROMET BENZENAMINE (12.89) | | | 2300 J | | | | |
| UNK. ALIPHATIC AMINE (8.79) | 12 R | | 33 R | | | | 4 R |
| UNK. ALKOXYBENZENE (15.96) | | | | 1100 J | | | |
| UNK. ALKOXYBENZENE (16.02) | 110 J | 140 J | | | | | |
| UNK. ALKOXYBENZENE (16 06) | | | | | 450 J | | |
| UNK. ALKOXYBENZENE (17.97) | | | 21 J | | 20 J | | |
| UNK. ALKOXYBIPHENYL (16 07) | | | 500 J | | | | |
| UNK. AMINOPHENYLETHANONE (19.94) | | | 74 J | | 71 J | | |
| UNK. AROMATIC (16 46) | 3 J | | | | | | |
| UNK. AROMATIC AMINE (24.90) | 5 J | | | | | | |
| UNK. AROMATIC AMINE (20.98) | | | 48 J | | | | |
| UNK. AROMATIC AMINE (24 96) | | | 20 J | | 34 J | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | RNS-GW-GUB | RNS-GW-GUBDL | S-GW-RW1 | RNS-GW-RW1DL | RNS-GW-S22 | RNS-GW-S22DL | RNS .V-RW1-112 |
| Laboratory Sample Number | S301 | S301DL | S304 | S304DL | S305 | S305DL | S306 |
| Remarks | | Dilution | | Dilution | Duplicate of RNS-GW-RW1 | Duplicate of RNS-GW-RW1 | Field Blank |
| Units | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| SEMIVOLATILE TICS | | | | | | Dilution | |
| UNK. AROMATIC AMINE+ UNK (20 97) | | | | | 19 J | | |
| UNK. BENZYL ALCOHOL (16.60) | | | 190 J | | | | |
| UNK. BENZYL ALCOHOL (17 15) | | | | | 21 J | | |
| UNK. BIPHENYLOL (20.32) | | | 110 J | | 100 J | | |
| UNK. BIPHENYLOL (26.38) | 11 J | | | | | | |
| UNK. CHLOROBENOYL (27.00) | | | | | 14 J | | |
| UNK. CHLOROBIPHENYL (26.42) | | | 510 J | | 490 J | | |
| UNK. CHLOROBIPHENYL (28.48) | | | 41 J | | | | |
| UNK. CHLOROETHENYLBENZENE (14.18) | | | 15 J | | | | |
| UNK. CYCLOHEXANOL (12.45) | 16 J | | | | | | 6 J |
| UNK. CYCLOHEXANOL (9.46) | 8 J | | | | | | |
| UNK. DICHLOROBIPHENYL (24.48) | | | | | 45 J | | |
| UNK. IMADAZOLIDINDIONE (16 82) | 4 J | | | | | | |
| UNK. NITROAROMATIC (20.14) | | | 280 J | | | | |
| UNK. NITROAROMATIC (22.44) | | | 420 J | | | | |
| UNK NITROBENZENE (22.14) | | | | | 270 J | | |
| UNK. NITROBENZENE (22.45) | | | | | 410 J | | |
| UNK. POLYCHLORINATED ALIPHATIC (32.22) | | | 23 J | | 31 J | | |
| UNK. SUBS. CYCLOHEXANE (14.63) | 2 J | | | | | | |
| UNK. SUBST BIPHENYL (26.74) | | | 91 J | | 79 J | | |
| UNK. SUBST BIPHENYL (29.50) | | | 19 J | | | | |
| UNK. SULFONATED BENZENE (18.51) | 3 J | | | | | | |
| UNK. SULFONATED BENZENE (25.65) | 2 J | | | | | | |
| UNK. THIOAROMATIC (11.21) | 3 J | | | | | | |
| UNK TRIFLUOROMET BENZEAMINE (12 86) | | | | | 2100 J | | |
| UNKNOWN (MWT. 116) (9.39) | 7 J | | | | | | |
| UNKNOWN (MWT. 116) (9.62) | 8 J | | | | | | |

chemical company, Inc.

**RUETGERS-NEASE ~~CO~~ SALEM, OHIO**
**ROUND 2 GROUNDWATER RESULTS**

**Pesticide/PCBs**

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-KVF5 | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GW-LLB |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P215 | P249 | P238 | P239 | P240 |
| Remarks | | Duplicate of RNS- | | | Duplicate of RNS- | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | |
| alpha-BHC | 0.05 | | .0015 J | R | | |
| beta-BHC | 0.05 | | UJ | R | | |
| delta-BHC | 0.05 | | UJ | R | | |
| gamma-BHC (Lindane) | 0.05 | | UJ | R | | |
| Heptachlor | 0.05 | .0081 J | UJ | .0026 R | .0039 R | |
| Aldrin | 0.05 | | UJ | R | | |
| Heptachlor Epoxide | 0.05 | | UJ | R | | |
| Endosulfan I | 0.05 | | UJ | R | | |
| Dieldrin | 0.1 | .011 J | .0013 J | R | | |
| 4,4'-DDE | 0.1 | | UJ | R | | |
| Endrin | 0.1 | | UJ | R | | |
| Endosulfan II | 0.1 | | UJ | R | | |
| 4,4'-DDD | 0.1 | | UJ | R | | |
| Endosulfan Sulfate | 0.1 | | UJ | R | | |
| 4,4'-DDT | 0.1 | | UJ | R | | |
| Methoxychlor | 0.5 | | UJ | R | | |
| Endrin Ketone | 0.1 | | UJ | R | | |
| Endrin Aldehyde | 0.1 | | UJ | R | | |
| alpha-Chlordane | 0.05 | | UJ | R | | |
| gamma-Chlordane | 0.05 | | UJ | R | | |
| Toxaphene | 5 | | UJ | R | | |
| Aroclor-1016 | 1 | | UJ | R | | |
| Aroclor-1221 | 2 | | UJ | R | | |
| Aroclor-1232 | 1 | | UJ | R | | |
| Aroclor-1242 | 1 | | UJ | R | | |
| Aroclor-1248 | 1 | | UJ | R | | |
| Aroclor-1254 | 1 | | UJ | R | | |
| Aroclor-1260 | 1 | | UJ | R | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/15/93 | 02/15/93 | 02/15/93 | 02/15/93 |
| Date Sample Received by Laboratory | | 02/10/93 | 02/17/93 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date Sample Extracted | | 02/11/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 |
| Date of Sample Analysis | | 03/18/93 | 03/29/93 | 03/29/93 | 03/28/93 | 03/28/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 | RNS-GW-KVF4 | RNS-GW-KLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P242 | P243 | P244 | P204 | P205 | P206 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | | |
| Heptachlor | 0.05 | .0028 R | | | .0049 J | .0061 J | .0041 J |
| Aldrin | 0.05 | | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | .0069 J | .0032 J | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | UJ | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | .0019 J | .0015 J | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/15/93 | 02/15/93 | 02/15/93 | 02/09/93 | 02/09/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 02/16/93 | 02/16/93 | 02/16/93 | 02/10/93 | 02/10/93 | 02/10/93 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/11/93 | 02/11/93 | 02/11/93 |
| Date of Sample Analysis | | 03/28/93 | 03/28/93 | 03/28/93 | 03/18/93 | 03/18/93 | 03/18/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-H-UB | RNS-GW-IS | RNS-GW-II | RNS-GW-IUB | RNS-GW-IUB-1 | RNS-GW-ILBR | RNS-GW-JVF2 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P312 | P209 | P210 | P207 | P208 | P307 | P241 |
| Remarks | | | | | | Field Blank | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | | |
| alpha-BHC | 0.05 | | | | | | U | |
| beta-BHC | 0.05 | | | | | | U | |
| delta-BHC | 0.05 | | | | | | U | |
| gamma-BHC (Lindane) | 0.05 | | | | | | U | |
| Heptachlor | 0.05 | | | | | | U | |
| Aldrin | 0.05 | | | | | | U | |
| Heptachlor Epoxide | 0.05 | | | | | | U | |
| Endosulfan I | 0.05 | | | | | | U | |
| Dieldrin | 0.1 | | | | | | U | |
| 4,4'-DDE | 0.1 | | | | | | U | |
| Endrin | 0.1 | | | | | | U | |
| Endosulfan II | 0.1 | | | | | | U | |
| 4,4'-DDD | 0.1 | | | | | | U | |
| Endosulfan Sulfate | 0.1 | | | | | | U | |
| 4,4'-DDT | 0.1 | | | | | | U | |
| Methoxychlor | 0.5 | .015 J | | | | | U | |
| Endrin Ketone | 0.1 | | | | | | U | |
| Endrin Aldehyde | 0.1 | | | | | | U | |
| alpha-Chlordane | 0.05 | | | | | | U | |
| gamma-Chlordane | 0.05 | | | | | | U | |
| Toxaphene | 5 | | | | | | U | |
| Aroclor-1016 | 1 | | | | | | U | |
| Aroclor-1221 | 2 | | | | | | U | |
| Aroclor-1232 | 1 | | | | | | U | |
| Aroclor-1242 | 1 | | | | | | U | |
| Aroclor-1248 | 1 | | | | | | U | |
| Aroclor-1254 | 1 | | | | | | U | |
| Aroclor-1260 | 1 | | | | | | U | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/15/93 | 02/08/93 | 02/08/93 | 02/08/93 | 02/08/93 | 3/15/93 | 02/15/93 |
| Date Sample Received by Laboratory | | 03/17/93 | 02/10/93 | 02/10/93 | 02/10/93 | 02/10/93 | 3/17/93 | 02/16/93 |
| Date Sample Extracted | | 03/18/93 | 02/11/93 | 02/11/93 | 02/11/93 | 02/11/93 | 3/18/93 | 02/17/93 |
| Date of Sample Analysis | | 03/30/93 | 03/18/93 | 03/18/93 | 03/18/93 | 03/18/93 | 3/23/93 | 03/28/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-F-VF4R | RNS-GW-F-VF6R | RNS-GW-F-LBR | RNS-GW-GUB | RNS-GW-H-SR | RNS-GW-H-VF1R |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P317 | P318 | P319 | M301 | P313 | P311 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | UJ | | | | |
| beta-BHC | 0.05 | | UJ | .0030 J | | | |
| delta-BHC | 0.05 | | UJ | | | | |
| gamma-BHC (Lindane) | 0.05 | 0.010 R | .0026 R | | 0.0067 R | | |
| Heptachlor | 0.05 | .0030 R | UJ | 0.0082 J | 0.043 R | .0043 J | |
| Aldrin | 0.05 | | UJ | | | | |
| Heptachlor Epoxide | 0.05 | | UJ | | | | |
| Endosulfan I | 0.05 | | UJ | | | | |
| Dieldrin | 0.1 | .0017 J | UJ | | | .0018 J | |
| 4,4'-DDE | 0.1 | | UJ | | .0022 J | | |
| Endrin | 0.1 | | UJ | | | | |
| Endosulfan II | 0.1 | | UJ | | | | |
| 4,4'-DDD | 0.1 | | UJ | .0023 R | | | |
| Endosulfan Sulfate | 0.1 | | .011 R | | | | |
| 4,4'-DDT | 0.1 | | UJ | .015 J | | | |
| Methoxychlor | 0.5 | | .094 R | | 0.50 U | | |
| Endrin Ketone | 0.1 | | UJ | | | | |
| Endrin Aldehyde | 0.1 | | UJ | | | | |
| alpha-Chlordane | 0.05 | | UJ | | | | |
| gamma-Chlordane | 0.05 | | UJ | | | | |
| Toxaphene | 5 | | UJ | | | | |
| Aroclor-1016 | 1 | | UJ | | | | |
| Aroclor-1221 | 2 | | UJ | | | | |
| Aroclor-1232 | 1 | | UJ | | | | |
| Aroclor-1242 | 1 | | UJ | | | | |
| Aroclor-1248 | 1 | | UJ | | | | |
| Aroclor-1254 | 1 | | UJ | | | | |
| Aroclor-1260 | 1 | | UJ | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/17/93 | 03/17/93 | 03/17/93 | 02/24/93 | 03/16/93 | 03/15/93 |
| Date Sample Received by Laboratory | | 03/18/93 | 03/18/93 | 03/18/93 | 02/25/93 | 03/17/93 | 03/17/93 |
| Date Sample Extracted | | 03/18/93 | 03/18/93 | 03/18/93 | 03/01/93 | 03/18/93 | 03/18/93 |
| Date of Sample Analysis | | 03/30/93 | 03/30/93 | 03/30/93 | 04/09/93 | 03/29/93 | 03/30/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-EVF3 | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW-E-LBR | RNS-GW-F-VF3R | RNS-GW-FVF3-10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P213 | P217 | P214 | P310 | P316 | P320 |
| Remarks | | | Duplicate of RNS- | | | | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | UJ | | |
| beta-BHC | 0.05 | | .0048 J | | UJ | | |
| delta-BHC | 0.05 | | | | UJ | | |
| gamma-BHC (Lindane) | 0.05 | | | | UJ | .0038 R | |
| Heptachlor | 0.05 | | | .0044 J | UJ | .0051 R | |
| Aldrin | 0.05 | | | | UJ | | |
| Heptachlor Epoxide | 0.05 | | | | UJ | | |
| Endosulfan I | 0.05 | | | | UJ | | |
| Dieldrin | 0.1 | | .0053 J | | .0015 J | .0021 J | |
| 4,4'-DDE | 0.1 | | | | UJ | | |
| Endrin | 0.1 | | | | UJ | | |
| Endosulfan II | 0.1 | | | | UJ | | |
| 4,4'-DDD | 0.1 | | | | UJ | | |
| Endosulfan Sulfate | 0.1 | | | | UJ | | |
| 4,4'-DDT | 0.1 | | | | UJ | | |
| Methoxychlor | 0.5 | | | | UJ | | |
| Endrin Ketone | 0.1 | | | | UJ | | |
| Endrin Aldehyde | 0.1 | | | | UJ | | |
| alpha-Chlordane | 0.05 | | .0022 J | | UJ | | |
| gamma-Chlordane | 0.05 | | | | UJ | | |
| Toxaphene | 5 | | | | UJ | | |
| Aroclor-1016 | 1 | | | | UJ | | |
| Aroclor-1221 | 2 | | | | UJ | | |
| Aroclor-1232 | 1 | | | | UJ | | |
| Aroclor-1242 | 1 | | | | UJ | | |
| Aroclor-1248 | 1 | | | | UJ | | |
| Aroclor-1254 | 1 | | | | UJ | | |
| Aroclor-1260 | 1 | | | | UJ | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/09/93 | 02/09/93 | 02/09/93 | 03/16/93 | 03/17/93 | 03/17/93 |
| Date Sample Received by Laboratory | | 02/10/93 | 02/10/93 | 02/10/93 | 03/17/93 | 03/18/93 | 03/18/93 |
| Date Sample Extracted | | 02/11/93 | 02/11/93 | 02/11/93 | 03/18/93 | 03/18/93 | 03/18/93 |
| Date of Sample Analysis | | 03/17/93 | 03/18/93 | 03/17/93 | 03/23/93 | 03/30/93 | 03/30/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-C-LBR | RNS-GW-DVF2 | RNS-GW-DVF3 | RNS-GW-D-LBR | RNS-GW-EVF1 | RNS-GW-EVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P314 | P202 | P203 | P321 | P211 | P212 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | | | |
| Heptachlor | 0.05 | | | | .0059 J | | |
| Aldrin | 0.05 | | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | .0015 J | .0013 J | | | |
| 4,4'-DDE | 0.1 | | | | .0036 R | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | | | | .034 J | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 03/16/93 | 02/09/93 | 02/09/93 | 03/17/93 | 02/09/93 | 02/09/93 |
| Date Sample Received by Laboratory | | 03/18/93 | 02/10/93 | 02/10/93 | 03/18/93 | 02/10/93 | 02/10/93 |
| Date Sample Extracted | | 03/18/93 | 02/11/93 | 02/11/93 | 03/18/93 | 02/11/93 | 02/11/93 |
| Date of Sample Analysis | | 03/24/93 | 03/18/93 | 03/18/93 | 03/30/93 | 03/18/93 | 03/17/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-AS | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-B-S | RNS-GW-CS | RNS-GW-CUB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P235 | P236 | P237 | P247 | P200 | P201 |
| Remarks | | | | Duplicate of RNS- | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | 0.0087 R | | |
| Heptachlor | 0.05 | | .011 R | .0062 R | 0.021 R | .0078 J | .0051 J |
| Aldrin | 0.05 | | | | 0.0085 J | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/15/93 | 02/15/93 | 02/15/93 | 02/15/93 | 02/08/93 | 02/08/93 |
| Date Sample Received by Laboratory | | 02/16/93 | 02/16/93 | 02/16/93 | 02/16/93 | 02/10/93 | 02/10/93 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/11/93 | 02/11/93 |
| Date of Sample Analysis | | 03/29/93 | 03/29/93 | 03/29/93 | 03/29/93 | 03/18/93 | 03/18/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-T2DL | RNS-GW-RW1 | RNS-GW-RW1DL | RNS-GW-S22 | RNS-GW-S22DL | RNS-GW-RW1-11 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P293DL100 | M304 | P304DIL | 305 | P305DL10 | 306 |
| Remarks | | Dilution | | Dilution | Duplicate of RNS- | Duplicate of RNS- | Field Blank |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | Dilution | |
| alpha-BHC | 0.05 | | 4.5 R | | 4.5 R | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | 0.36 R | 0.51 R | 0.38 R | | |
| Heptachlor | 0.05 | | | | | | 0.014 J |
| Aldrin | 0.05 | | | 0.073 R | | | |
| Heptachlor Epoxide | 0.05 | | | | 1.2 R | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | 0.28 R | 0.18 R | 0.22 R | 0.19 R | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | 1.0 R | | 1.3 R | | |
| 4,4'-DDT | 0.1 | | | | | 0.15 R | 0.026 R |
| Methoxychlor | 0.5 | 9.5 J | 15 J | 15 | 3.2 J | 7.3 | 0.024 J |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | 1.5 R | 1.7 R | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | 0.10 J | | 0.14 J | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 100 | 1 | 10 | 1 | 10 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 03/01/93 | 03/01/93 | 03/01/93 | 03/01/93 | 03/01/93 | 03/01/93 |
| Date of Sample Analysis | | 04/06/93 | 04/09/93 | 04/08/93 | 04/09/93 | 04/09/93 | 04/09/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D14 | RNS-GW-D19 | RNS-GW-D15 | RNS-GW-D16R | RNS-GW-D17 | RNS-GW-T1 | RNS-GW-T2 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P280 | P281 | P276 | P309 | P275 | P292 | P293 |
| Remarks | | | Duplicate of R | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | | |
| alpha-BHC | 0.05 | | | | | 0.0054R | 0.069 R | 4.7 R |
| beta-BHC | 0.05 | | | | | | | |
| delta-BHC | 0.05 | | | | | | 0.0057 R | |
| gamma-BHC (Lindane) | 0.05 | | | 0.012 R | | | | |
| Heptachlor | 0.05 | | | 0.043 J | | 0.0083J | 0.088 R | |
| Aldrin | 0.05 | | | | | 0.0060R | 0.012 R | |
| Heptachlor Epoxide | 0.05 | | | | | | | 1.6 R |
| Endosulfan I | 0.05 | | | | | | | |
| Dieldrin | 0.1 | 0.0023 J | | | | | | |
| 4,4'-DDE | 0.1 | | | | | 0.0029R | | |
| Endrin | 0.1 | | | 0.14 R | | 0.0021J | | |
| Endosulfan II | 0.1 | | | | | | | |
| 4,4'-DDD | 0.1 | | | 0.0054 R | | | 0.012 J | 2.6 R |
| Endosulfan Sulfate | 0.1 | | | | | | | |
| 4,4'-DDT | 0.1 | 0.0066 J | 0.0067 R | 0.024 R | | 0.0096R | | |
| Methoxychlor | 0.5 | | | | | | 0.037 J | 11 |
| Endrin Ketone | 0.1 | | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | 0.026 J | |
| alpha-Chlordane | 0.05 | | | 0.0084 J | | | | |
| gamma-Chlordane | 0.05 | | | | | | | 0.068 J |
| Toxaphene | 5 | | | | | | | |
| Aroclor-1016 | 1 | | | | | | | |
| Aroclor-1221 | 2 | | | | | | | |
| Aroclor-1232 | 1 | | | | | | | |
| Aroclor-1242 | 1 | | | | | | | |
| Aroclor-1248 | 1 | | | | | | | |
| Aroclor-1254 | 1 | | | | | | | |
| Aroclor-1260 | 1 | | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/22/93 | 02/22/93 | 02/22/93 | 03/15/93 | 2/22/93 | 02/24/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/23/93 | 02/23/93 | 03/17/93 | 2/23/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 03/18/93 | 2/24/93 | 03/01/93 | 03/01/93 |
| Date of Sample Analysis | | 04/04/93 | 04/04/93 | 04/04/93 | 03/30/93 | 4/4/93 | 04/05/93 | 04/05/93 |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D10R | RNS-GW-D11 | RNS-GW-D11DL | RNS-GW-D12 | RNS-GW-D12DL | RNS-GW-D13 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P315 | P284 | P284DL10 | P287 | P287DL10 | P285 |
| Remarks | | | | Dilution | | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | 1.3 R | | | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | .0069 R | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | | 0.36 R | 0.53 R | |
| Heptachlor | 0.05 | | 0.44 R | 0.43 R | | | |
| Aldrin | 0.05 | | | | | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | 0.0039 J |
| 4,4'-DDE | 0.1 | | | | 0.13 R | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | | | | 0.62 R | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | | | | 19 J | 20 J | |
| Endrin Ketone | 0.1 | | | | 0.16 R | | |
| Endrin Aldehyde | 0.1 | | 0.11 J | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | 0.15 J | 0.42 J | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 10 | 1 | 10 | 1 |
| Date of Sample Collection | | 03/17/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 03/18/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date Sample Extracted | | 03/18/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date of Sample Analysis | | 03/29/93 | 04/04/93 | 04/05/93 | 04/04/93 | 04/05/93 | 04/04/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D5 | RNS-GW-D18 | RNS-GW-D6 | RNS-GW-D7 | RNS-GW-D8 | RNS-GW-D9 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P256 | P257 | P296 | P266 | P274 | P264 |
| Remarks | | | Duplicate of RNS- | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | 0.021 R | 0.0019 R | 0.0055 J | 0.0029 R |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | 0.0055 R | |
| gamma-BHC (Lindane) | 0.05 | | 0.0082 R | 0.015 R | 0.0025 R | 0.013 R | |
| Heptachlor | 0.05 | | 0.0031 R | | 0.0048 R | 0.024 J | |
| Aldrin | 0.05 | 0.0021 R | | | 0.0027 R | 0.0083 R | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | 0.043 R | 0.021 R | |
| Dieldrin | 0.1 | 0.0034 J | 0.0017 J | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | 0.0030 J | | | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | 0.0028 J | | | | | |
| Methoxychlor | 0.5 | | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/16/93 | 02/16/93 | 02/23/93 | 02/17/93 | 02/22/93 | 02/17/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/17/93 | 02/25/93 | 02/18/93 | 02/23/93 | 02/18/93 |
| Date Sample Extracted | | 02/22/93 | 02/22/93 | 03/01/93 | 02/22/93 | 02/24/93 | 02/22/93 |
| Date of Sample Analysis | | 04/01/93 | 04/01/93 | 04/05/93 | 04/02/93 | 04/02/93 | 04/02/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S18DL | RNS-GW-D1 | RNS-GW-D1-110 | RNS-GW-D2 | RNS-GW-D3 | RNS-GW-D4 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P294DL1000 | P251 | P252 | P290 | P261 | P259 |
| Remarks | | Dilution | | Field Blank | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | | | | UJ | | 0.0030 R |
| beta-BHC | 0.05 | | | | UJ | | |
| delta-BHC | 0.05 | | 0.0023 R | | UJ | | |
| gamma-BHC (Lindane) | 0.05 | | | | UJ | 0.0014 R | 0.0026 R |
| Heptachlor | 0.05 | | | | UJ | 0.0070 R | 0.0098 J |
| Aldrin | 0.05 | | | | UJ | | 0.0056 R |
| Heptachlor Epoxide | 0.05 | | | | UJ | | |
| Endosulfan I | 0.05 | | 0.0097 R | | UJ | | |
| Dieldrin | 0.1 | | | | UJ | 0.0042 R | 0.018 J |
| 4,4'-DDE | 0.1 | | | | UJ | | |
| Endrin | 0.1 | | | | UJ | 0.0038 R | 0.017 J |
| Endosulfan II | 0.1 | | | | UJ | | |
| 4,4'-DDD | 0.1 | | | | UJ | | |
| Endosulfan Sulfate | 0.1 | | | | UJ | | |
| 4,4'-DDT | 0.1 | | | | UJ | 0.0021 R | 0.015 J |
| Methoxychlor | 0.5 | | | | UJ | | |
| Endrin Ketone | 0.1 | | | | UJ | | |
| Endrin Aldehyde | 0.1 | | | | UJ | | |
| alpha-Chlordane | 0.05 | | | | UJ | | |
| gamma-Chlordane | 0.05 | | | | UJ | | |
| Toxaphene | 5 | | | | UJ | | |
| Aroclor-1016 | 1 | | | | UJ | | |
| Aroclor-1221 | 2 | | | | UJ | | |
| Aroclor-1232 | 1 | | | | UJ | | |
| Aroclor-1242 | 1 | | | | UJ | | |
| Aroclor-1248 | 1 | | | | UJ | | |
| Aroclor-1254 | 1 | | | | UJ | | |
| Aroclor-1260 | 1 | | | | UJ | | |
| Quantitation Limit Multiplier | | 100 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/16/93 | 02/16/93 | 02/23/93 | 02/16/93 | 02/16/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/17/93 | 02/17/93 |
| Date Sample Extracted | | 03/01/93 | 02/17/93 | 02/17/93 | 02/24/93 | 02/22/93 | 02/22/93 |
| Date of Sample Analysis | | 04/06/93 | 03/29/93 | 03/29/93 | 04/04/93 | 04/02/93 | 04/02/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S14 | RNS-GW-S15 | RNS-GW-S16 | RNS-GW-S17 | RNS-GW-S20 | RNS-GW-S18 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P269 | P279 | P263 | P272 | P273 | P294DL100 |
| Remarks | | | | | | Duplicate of RNS- | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | 0.0037 R | | 0.0052 R | | 0.011 R | |
| beta-BHC | 0.05 | | | 0.010 R | | | |
| delta-BHC | 0.05 | | | | 0.0035 R | 0.0032 R | 1.2 R |
| gamma-BHC (Lindane) | 0.05 | | | 0.0082 R | 0.0093 R | 0.0081 R | |
| Heptachlor | 0.05 | | | | 0.024 R | 0.021 R | |
| Aldrin | 0.05 | 0.0071 R | | | 0.0077 R | | |
| Heptachlor Epoxide | 0.05 | | | 0.0025 R | | | |
| Endosulfan I | 0.05 | | | 0.019 R | 0.022 R | 0.022 R | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | 0 0074 R | | | | | 3.2 J |
| Methoxychlor | 0.5 | | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | 0.039 J | | 0.020 R | | |
| alpha-Chlordane | 0.05 | | | 0.0053 R | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 100 |
| Date of Sample Collection | | 02/17/93 | 02/22/93 | 02/17/93 | 02/22/93 | 02/22/93 | 02/24/93 |
| Date Sample Received by Laboratory | | 02/18/93 | 02/23/93 | 02/18/93 | 02/23/93 | 02/23/93 | 02/25/93 |
| Date Sample Extracted | | 02/22/93 | C2/24/93 | 02/22/93 | 02/24/93 | 02/24/93 | 03/01/93 |
| Date of Sample Analysis | | 04/02/93 | 04/04/93 | 04/02/93 | 04/02/93 | 04/02/93 | 04/06/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S11 | RNS-GW-S12 | RNS-GW-S12DL | RNS-GW-S21 | RNS-GW-S21-DL | RNS-GW-S13 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P254 | P288 | P288DL10 | P289RE | P289DL10 | P278 |
| Remarks | | | | Dilution | Reanalysis | Dilution | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | Duplicate of RNS-GW-S12 | Duplicate of RNS-GW-S12 | |
| alpha-BHC | 0.05 | | 1.6 R | | 2.8 R | | UJ |
| beta-BHC | 0.05 | 0.0067 R | UJ | | UJ | | UJ |
| delta-BHC | 0.05 | | 0.074 R | | 0.15 R | 0.099 R | UJ |
| gamma-BHC (Lindane) | 0.05 | 0.0050 R | 0.49 R | 0.42 R | 0.72 R | 0.20 R | UJ |
| Heptachlor | 0.05 | | 0.23 R | | UJ | | UJ |
| Aldrin | 0.05 | | UJ | | UJ | | UJ |
| Heptachlor Epoxide | 0.05 | | 0.082 R | | 0.12 R | | UJ |
| Endosulfan I | 0.05 | 0.028 R | UJ | | UJ | | UJ |
| Dieldrin | 0.1 | | UJ | | 0.014 R | | UJ |
| 4,4'-DDE | 0.1 | | UJ | | 0.024 R | | UJ |
| Endrin | 0.1 | | UJ | | UJ | | UJ |
| Endosulfan II | 0.1 | | UJ | 0.055 R | UJ | | UJ |
| 4,4'-DDD | 0.1 | | UJ | | UJ | | UJ |
| Endosulfan Sulfate | 0.1 | | UJ | | UJ | | UJ |
| 4,4'-DDT | 0.1 | | UJ | | 0.053 R | | UJ |
| Methoxychlor | 0.5 | | UJ | | 0.067 J | | UJ |
| Endrin Ketone | 0.1 | | UJ | | UJ | | UJ |
| Endrin Aldehyde | 0.1 | | UJ | | UJ | | UJ |
| alpha-Chlordane | 0.05 | | 0.064 J | 0.073 J | UJ | | UJ |
| gamma-Chlordane | 0.05 | | UJ | | UJ | | UJ |
| Toxaphene | 5 | | UJ | | UJ | | UJ |
| Aroclor-1016 | 1 | | UJ | | UJ | | UJ |
| Aroclor-1221 | 2 | | UJ | | UJ | | UJ |
| Aroclor-1232 | 1 | | UJ | | UJ | | UJ |
| Aroclor-1242 | 1 | | UJ | | UJ | | UJ |
| Aroclor-1248 | 1 | | UJ | | UJ | | UJ |
| Aroclor-1254 | 1 | | UJ | | UJ | | UJ |
| Aroclor-1260 | 1 | | UJ | | UJ | | UJ |
| Quantitation Limit Multiplier | | 1 | 1 | 10 | 1 | 10 | 1 |
| Date of Sample Collection | | 02/16/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/23/93 |
| Date Sample Extracted | | 02/17/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Date of Sample Analysis | | 03/29/93 | 04/04/93 | 04/06/93 | 04/04/93 | 04/06/93 | 04/04/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S6-111 | RNS-GW-S6-111D | RNS-GW-S7 | RNS-GW-S8 | RNS-GW-S9 | RNS-GW-S10 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P297 | P297DL10 | P283 | P291RE | P250 | P253 |
| Remarks | | | Dilution | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | Field Blank | Field Blank | | | | |
| alpha-BHC | 0.05 | | | | 0.0094 R | | |
| beta-BHC | 0.05 | | | | | | |
| delta-BHC | 0.05 | | | | | | |
| gamma-BHC (Lindane) | 0.05 | | | 0.0027 R | | | |
| Heptachlor | 0.05 | | | 0.013 J | 0.017 J | | |
| Aldrin | 0.05 | | | 0.0095 R | 0.0057 R | | |
| Heptachlor Epoxide | 0.05 | | | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | 0.0077 R | | | |
| Endrin | 0.1 | | | 0.0067 J | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | 0.0033 R | | | |
| Endosulfan Sulfate | 0.1 | | | 0.024 J | | | |
| 4,4'-DDT | 0.1 | | | 0.0045 R | | | |
| Methoxychlor | 0.5 | | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 10 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/23/93 | 02/23/93 | 02/16/93 | 02/16/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/24/93 | 02/24/93 | 02/17/93 | 02/17/93 |
| Date Sample Extracted | | 03/01/93 | 03/01/93 | 02/24/93 | 03/01/93 | 02/17/93 | 02/17/93 |
| Date of Sample Analysis | | 04/05/93 | 04/05/93 | 04/04/93 | 04/04/93 | 03/29/93 | 03/29/93 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 | RNS-GW-S6DL |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | P260 | P277 | P265 | P258 | P295 | P295DL10 |
| Remarks | | | | | | | Dilution |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES | Quantitation Limit (Aq) | | | | | | |
| alpha-BHC | 0.05 | 0.0035 J | 0.0079 J | | 0.0022 R | 0.042 J | |
| beta-BHC | 0.05 | | | 0.0045 R | | | |
| delta-BHC | 0.05 | | | | | | 0.14 R |
| gamma-BHC (Lindane) | 0.05 | 0.0079 R | | | 0.0042 R | 0.023 J | |
| Heptachlor | 0.05 | 0.0030 R | | 0.0043 R | | | |
| Aldrin | 0.05 | | | | | | 0.076 J |
| Heptachlor Epoxide | 0.05 | | 0.0051 R | | | | |
| Endosulfan I | 0.05 | | | | | | |
| Dieldrin | 0.1 | | | | | | |
| 4,4'-DDE | 0.1 | | | | | | |
| Endrin | 0.1 | | | | | | |
| Endosulfan II | 0.1 | | | | | | |
| 4,4'-DDD | 0.1 | | | | | | |
| Endosulfan Sulfate | 0.1 | | | | | | |
| 4,4'-DDT | 0.1 | | | | | | |
| Methoxychlor | 0.5 | 0.019 J | | | | | |
| Endrin Ketone | 0.1 | | | | | | |
| Endrin Aldehyde | 0.1 | | | | | | |
| alpha-Chlordane | 0.05 | | | | | | |
| gamma-Chlordane | 0.05 | | | | | | |
| Toxaphene | 5 | | | | | | |
| Aroclor-1016 | 1 | | | | | | |
| Aroclor-1221 | 2 | | | | | | |
| Aroclor-1232 | 1 | | | | | | |
| Aroclor-1242 | 1 | | | | | | |
| Aroclor-1248 | 1 | | | | | | |
| Aroclor-1254 | 1 | | | | | | |
| Aroclor-1260 | 1 | | | | | | |
| Quantitation Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 10 |
| Date of Sample Collection | | 02/16/93 | 02/22/93 | 02/16/93 | 02/16/93 | 02/23/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/23/93 | 02/18/93 | 02/17/93 | 02/25/93 | 02/25/93 |
| Date Sample Extracted | | 02/22/93 | 02/24/93 | 02/22/93 | 02/22/93 | 03/01/93 | 03/01/93 |
| Date of Sample Analysis | | 04/02/93 | 04/04/93 | 04/02/93 | 04/02/93 | 04/05/93 | 04/06/93 |

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 2 GROUNDWATER RESULTS

## Mirex, Photomirex and Kepone

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S1 | RNS-GW-S2 | RNS-GW-S2 | RNS-GW-S3 | RNS-GW-S4 | RNS-GW-S6 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M260 | M277 | M277R | M265 | M258 | M295 |
| Remarks | | | | 10 ml | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | | | |
| Mirex | 0.00544 | | | | *0.00260 J* | | *0.256 J* |
| Reporting Limit Multiplier | | 1 | 5 | 5 | 1 | 1 | 5 |
| Date of Sample Collection | | 02/16/93 | 02/22/93 | 02/22/93 | 02/17/93 | 02/16/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/23/93 | 02/23/93 | 02/18/93 | 02/17/93 | 02/25/93 |
| Date Sample Extracted | | 02/17/93 | 02/24/93 | 02/24/93 | 02/22/93 | 02/17/93 | 02/26/93 |
| Date of Sample Analysis | | 03/02/93 | 03/09/93 | 03/08/93 | 03/03/93 | 03/02/93 | 03/11/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S6-111 | RNS-GW-S7 | RNS-GW-S8 | RNS-GW-S9 | RNS-GW-S10 | RNS-GW-S11 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M297 | M283 | M291 | M250 | M253 | M254 |
| Remarks | | Field Blank | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | 0.0326 JN | 0.0416 JN | | | |
| Mirex | 0.00544 | 0.00334 J | 0.0631 | 1.57 | 0.00494 J | 0.00357 J | 0.00816 |
| Reporting Limit Multiplier | | 1 | 1 | 5 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 02/23/93 | 02/23/93 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/24/93 | 02/24/93 | 02/17/93 | 02/17/93 | 02/17/93 |
| Date Sample Extracted | | 02/26/93 | 02/24/93 | 02/24/93 | 02/17/93 | 02/17/93 | 02/17/93 |
| Date of Sample Analysis | | 03/11/93 | 03/10/93 | 03/10/93 | 03/01/93 | 03/01/93 | 03/01/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S12 | RNS-GW-S21 | RNS-GW-S13 | RNS-GW-S14 | RNS-GW-S15 | RNS-GW-S16 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M288 | M289 | M278 | M269 | M279 | M263 |
| Remarks | | | Duplicate of RNS- | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | | | |
| Mirex | 0.00544 | 0.524 J | 0.0106 J | 0.00544 U | 0.00329 J | 0.0104 U | |
| Reporting Limit Multiplier | | 125 | 125 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/23/93 | 02/23/93 | 02/22/93 | 02/17/93 | 02/22/93 | 02/17/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 02/24/93 | 02/23/93 | 02/18/93 | 02/23/93 | 02/18/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 02/22/93 | 02/24/93 | 02/22/93 |
| Date of Sample Analysis | | 03/26/93 | 03/10/93 | 03/09/93 | 03/03/93 | 03/09/93 | 03/02/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-S17 | RNS-GW-S20 | RNS-GW-S18 | RNS-GW-D1 | RNS-GW-D1-110 | RNS-GW-D2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M272 | M273 | M294 | M251 | M252 | M290 |
| Remarks | | | Duplicate of RNS- | | | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | 13.1 J | | | |
| Photomirex | 0.0474 | | | 4.83 JN | | | 0.00586 JN |
| Mirex | 0.00544 | | | 54.2 J | 0.00259 J | | 0.09 |
| Reporting Limit Multiplier | | 5 | 5 | 200 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/22/93 | 02/22/93 | 02/24/93 | 02/16/93 | 02/16/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/23/93 | 02/25/93 | 02/17/93 | 02/17/93 | 02/24/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/26/93 | 02/17/93 | 02/17/93 | 02/24/93 |
| Date of Sample Analysis | | 03/08/93 | 03/08/93 | 04/08/93 | 03/01/93 | 03/01/93 | 03/10/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D3 | RNS-GW-D4 | RNS-GW-D5 | RNS-GW-D18 | RNS-GW-D6 | RNS-GW-D7 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M261 | M259 | M256 | M257 | M296 | M266 |
| Remarks | | | | | Duplicate of RNS- | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | | | |
| Mirex | 0.00544 | 0.00409 J | 0.0056 | 0.0150 J | 0.00870 J | | 0.00286 J |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 5 | 1 |
| Date of Sample Collection | | 02/16/93 | 02/16/93 | 02/16/93 | 02/16/93 | 02/23/93 | 02/17/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/25/93 | 02/18/93 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/17/93 | 02/26/93 | 02/22/93 |
| Date of Sample Analysis | | 03/02/93 | 03/02/93 | 03/01/93 | 03/02/93 | 03/10/93 | 03/03/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D8 | RNS-GW-D9 | RNS-GW-D9RE | RNS-GW-D10 | RNS-GW-D11 | RNS-GW-D12 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M274 | M264 | M264RE | M232 | M284 | M287 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | 4.17 J |
| Photomirex | 0.0474 | | | | | 0.0365 JN | 2.55 N |
| Mirex | 0.00544 | 0.00405 J | 0.00409 J | 0.00263 J | | 0.241 | 24.9 |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1.00/50.0/100 |
| Date of Sample Collection | | 02/22/93 | 02/17/93 | 02/17/93 | 02/10/93 | 02/23/93 | 02/23/93 |
| Date Sample Received by Laboratory | | 02/23/93 | 02/18/93 | 02/18/93 | 02/11/93 | 02/24/93 | 02/24/93 |
| Date Sample Extracted | | 02/24/93 | 02/22/93 | 02/22/93 | 02/16/93 | 02/24/93 | 02/24/93 |
| Date of Sample Analysis | | 03/08/93 | 03/03/93 | 03/03/93 | 02/24/93 | 03/10/93 | 3/10, 3/25 &3/25 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-D13 | RNS-GW-D14 | RNS-GW-D19 | RNS-GW-D15 | RNS-GW-D16 | RNS-GW-D17 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M285 | M280 | M281 | M276 | M227 | M275 |
| Remarks | | | | Duplicate of RNS- | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | 0.00504 JN | | | | | |
| Mirex | 0.00544 | 0.0344 | 0.0176 | 0.0223 | | .0072 U | |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 5 |
| Date of Sample Collection | | 02/23/93 | 02/22/93 | 02/22/93 | 02/22/93 | 02/10/93 | 02/22/93 |
| Date Sample Received by Laboratory | | 02/24/93 | 02/23/93 | 02/23/93 | 02/23/93 | 02/11/93 | 02/23/93 |
| Date Sample Extracted | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/16/93 | 02/24/93 |
| Date of Sample Analysis | | 03/10/93 | 03/09/93 | 03/10/93 | 03/09/93 | 02/24/93 | 03/09/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-T1 | RNS-GW-T2 | RNS-GW-RW1 | RNS-GW-S22 | RNS-GW-RW1-11 | RNS-GW-AS |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M292 | M293 | M304 | M305 | M306 | M235 |
| Remarks | | | | | Duplicate of RNS- | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | 0.514 J | 0.695 J | | |
| Photomirex | 0.0474 | | 3.60 N | 4.39 J | 1.45 J | | |
| Mirex | 0.00544 | 0.00552 J | 14.9 | 180 J | 46.7 J | | |
| Reporting Limit Multiplier | | 5 | 1.00/10.0/100 | 1.00/200 | 1.00/2000 | 1 | 1 |
| Date of Sample Collection | | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/24/93 | 02/15/93 |
| Date Sample Received by Laboratory | | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/25/93 | 02/16/93 |
| Date Sample Extracted | | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/26/93 | 02/17/93 |
| Date of Sample Analysis | | 03/11/93 | 3/11, 4/8 & 4/8 | 4/8 & 4/8 | 4/8 & 4/8 | 04/08/93 | 02/25/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-AUB | RNS-GW-AVF1 | RNS-GW-B-S | RNS-GW-CS | RNS-GW-CUB | RNS-GW-C-LB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M236 | M237 | M247 | M200 | M201 | M223 |
| Remarks | | | Duplicate of RNS- | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | | | |
| Mirex | 0.00544 | 0.00544 U | 0.00544 U | 0.001511 J | 0.205 | 0.445 | 0.0211 |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/15/93 | 02/15/93 | 02/15/93 | 02/07/89 | 02/07/89 | 02/09/89 |
| Date Sample Received by Laboratory | | 02/16/93 | 02/16/93 | 02/16/93 | 02/09/89 | 02/09/89 | 02/10/89 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/10/89 | 02/10/89 | 02/11/89 |
| Date of Sample Analysis | | 02/26/93 | 02/26/93 | 03/01/93 | 02/18/89 | 02/18/89 | 02/22/89 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-DVF2 | RNS-GW-DVF3 | RNS-GW-DLBA | RNS-GW-EVF1 | RNS-GW-EVF2 | RNS-GW-EVF3 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M202 | M203 | M221 | M211 | M212 | M213 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | UJ | | | | | |
| Photomirex | 0.0474 | UJ | | .0177 R | | | |
| Mirex | 0.00544 | UJ | | 0.25 | | | |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/08/89 | 02/08/89 | 02/09/93 | 02/08/89 | 02/08/89 | 02/08/89 |
| Date Sample Received by Laboratory | | 02/09/89 | 02/09/89 | 02/10/93 | 02/09/89 | 02/09/89 | 02/09/89 |
| Date Sample Extracted | | 02/16/89 | 02/10/89 | 02/12/93 | 02/11/89 | 02/10/89 | 02/10/89 |
| Date of Sample Analysis | | 02/22/89 | 02/18/89 | 02/24/93 | 02/18/89 | 02/22/89 | 02/22/89 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-EVF5 | RNS-GW-EVF4 | RNS-GW ELB | RNS-GW-FVF3 | RNS-GW-FVF3-10 | RNS-GW-FVF4 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M215 | M214 | M218 | M228 | M233 | M229 |
| Remarks | | Duplicate of RNS- | | | | Field Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | | | |
| Mirex | 0.00544 | | | 0.0332 | | 0.00413 J | |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/08/89 | 02/08/89 | 02/08/89 | 02/10/93 | 02/10/93 | 02/10/93 |
| Date Sample Received by Laboratory | | 02/09/89 | 02/09/89 | 02/09/89 | 02/11/93 | 02/11/93 | 02/11/93 |
| Date Sample Extracted | | 02/10/89 | 02/10/89 | 02/10/89 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date of Sample Analysis | | 02/22/89 | 02/22/89 | 02/22/89 | 02/24/93 | 02/25/93 | 02/24/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-FVF6 | RNS-GW-FLBA | RNS-GW-GUB | RNS-GW-H-S | RNS-GW-H-VF1 | RNS-GW-H-UB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M230 | M231 | M301 | M224 | M225 | M226 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | |
| Photomirex | 0.0474 | | | | .0441 J | | |
| Mirex | 0.00544 | 0.00544 U | 0.00544 U | | 0.0699 | | |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/10/93 | 02/10/93 | 02/24/93 | 02/10/93 | 02/10/93 | 02/10/93 |
| Date Sample Received by Laboratory | | 02/11/93 | 02/11/93 | 02/25/93 | 02/11/93 | 02/11/93 | 02/11/93 |
| Date Sample Extracted | | 02/16/93 | 02/16/93 | 02/26/93 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date of Sample Analysis | | 02/24/93 | 02/24/93 | 04/08/93 | 02/24/93 | 02/24/93 | 02/24/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-IS | RNS-GW-GW-Ii | RNS-GW-IUB | RNS-GW-IUB-108 | RNS-GW-I-LB | RNS-GW-JVF2 |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M209 | M210 | M207 | M208 | M222 | M241 |
| Remarks | | | | | Field Blank | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | UJ | | |
| Photomirex | 0.0474 | | | | UJ | | |
| Mirex | 0.00544 | | 0.00393 J | 0.0158 | UJ | 0.0157 | |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/07/89 | 02/07/89 | 02/07/89 | 02/07/89 | 02/09/89 | 02/15/93 |
| Date Sample Received by Laboratory | | 02/09/89 | 02/09/89 | 02/09/89 | 02/09/89 | 02/10/89 | 02/16/93 |
| Date Sample Extracted | | 02/10/89 | 02/10/89 | 02/10/89 | 02/18/89 | 02/11/89 | 02/17/93 |
| Date of Sample Analysis | | 02/18/89 | 02/18/89 | 02/18/89 | 02/22/89 | 02/22/89 | 02/25/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-JVF3 | RNS-GW-JVF4 | RNS-GW-JLB | RNS-GW-KVF2 | RNS-GW-KVF4 | RNS-GW-KLB |
|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | M242 | M243 | M244 | M204 | M205 | M206 |
| Remarks | | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | | | |
| Kepone | 0.132 | | | | | | UJ |
| Photomirex | 0.0474 | | | | | | UJ |
| Mirex | 0.00544 | | | | 0.0154 | 0.00417 J | 0.0212 J |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/15/93 | 02/15/93 | 02/15/93 | 02/08/89 | 02/08/89 | 02/08/89 |
| Date Sample Received by Laboratory | | 02/16/93 | 02/16/93 | 02/16/93 | 02/09/89 | 02/09/89 | 02/09/89 |
| Date Sample Extracted | | 02/17/93 | 02/17/93 | 02/17/93 | 02/11/89 | 02/10/89 | 02/16/89 |
| Date of Sample Analysis | | 02/25/93 | 02/25/93 | 02/25/93 | 02/16/89 | 02/16/89 | 02/22/89 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

## EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-GW-LVF1 | RNS-GW-LVF2 | RNS-GW-LVF3 | RNS-GW-LLB |
|---|---|---|---|---|---|
| Laboratory Sample Number | | M249 | M238 | M239 | M240 |
| Remarks | | | | Duplicate of RNS- | |
| Units | | ug/L | ug/L | ug/L | ug/L |
| | Reporting Limit(Aq) | | | | |
| Kepone | 0.132 | | | | |
| Photomirex | 0.0474 | | | | |
| Mirex | 0.00544 | | | | 0.00544 U |
| Reporting Limit Multiplier | | 1 | 1 | 1 | 1 |
| Date of Sample Collection | | 02/15/93 | 02/15/93 | 02/15/93 | 02/15/93 |
| Date Sample Received by Laboratory | | 02/17/93 | 02/16/93 | 02/16/93 | 02/16/93 |
| Date Sample Extracted | | 02/18/93 | 02/17/93 | 02/17/93 | 02/17/93 |
| Date of Sample Analysis | | 02/25/93 | 02/26/93 | 02/25/93 | 02/25/93 |
| Instrument Used for Analysis | | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 2 GROUNDWATER RESULTS

## Dioxins/Furans

DIOXIN AND FURAN ANALYTICAL RESULTS

| ERM-Midwest Sample Number | RNS-GW-S6 | RNS-GW-S6-111 | RNS-GW-S12 | RNS-GW-S21 | RNS-GW-S18 | RNS-GW-T2 |
|---|---|---|---|---|---|---|
| Laboratory Sample Number | 32192 | 32194 | 32190 | 32191 | 32195 | 32193 |
| Remarks | | Field Blank | | Dup GW-S12 | | |
| Units | pg/L | pg/L | pg/L | pg/L | pg/L | pg/L |
| DIOXINS AND FURANS | | | | | | |
| Total TCDD | ND( 10.7 cdl) UJ | ND( 10.9 cdl) UJ | ND( 10.5 cdl) UJ | ND( 10.6 cdl) UJ | 106 J | 16 J |
| 2,3,7,8-TCDD | ND( 10.7 cdl) UJ | ND( 10.9 cdl) UJ | ND( 10.5 cdl) UJ | ND( 10.6 cdl) UJ | 14.7 J | ND( 10.9 cdl) UJ |
| Total PeCDDS | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 170 J | ND( 54.6 cdl) UJ |
| 1,2,3,7,8-PeCDD | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| Total HxCDDs | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 1,2,3,4,7,8-HxCDD | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 1,2,3,6,7,8-HxCDD | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 1,2,3,7,8,9-HxCDD | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| Total HpCDDs | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 228 J | ND( 54.6 cdl) UJ |
| 1,2,3,4,6,7,8-HpCDD | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 113 J | ND( 54.6 cdl) UJ |
| OCDD | ND( 10.7 cdl) UJ | ND( 110 cdl) UJ | 120 J | ND( 107 cdl) UJ | 469 J | 186 J |
| Total TCDFs | ND( 10.7 cdl) UJ | ND( 10.9 cdl) UJ | 154 J | 139 J | 2580 J | 3374 J |
| 2,3,7,8-TCDF | ND( 10.7 cdl) UJ | ND( 10.9 cdl) UJ | ND( 10.5 cdl) UJ | ND( 10.6 cdl) UJ | 146 J | 231 J |
| Total PeCDFs | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 1600 J | 1420 J |
| 1,2,3,7,8-PeCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 2,3,4,7,8-PeCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 128 J | 229 J |
| Total HxCDFs | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 239 J | 216 J |
| 1,2,3,4,7,8-HxCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | 94.4 J | 118 J |
| 1,2,3,6,7,8-HxDCF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 2,3,4,6,7,8-HxCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| 1,2,3,7,8,9-HxCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| Total HpCDFs | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | 48.5 J | ND( 53.2 cdl) UJ | 402 J | 337 J |
| 1,2,3,4,6,7,8-HpCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | 47.9 J | ND( 53.2 cdl) UJ | 73.8 J | 87.4 J |
| 1,2,3,4,7,8,9-HpCDF | ND( 53.4 cdl) UJ | ND( 54.7 cdl) UJ | ND( 52.5 cdl) UJ | ND( 53.2 cdl) UJ | ND( 53.7 cdl) UJ | ND( 54.6 cdl) UJ |
| OCDF | ND( 107 cdl) UJ UJ | ND( 110 cdl) UJ | ND( 106 cdl) UJ | ND( 107 cdl) UJ | 262 J | 305 J |
| | | | | | | |
| Date Sample Collected | Feb-24-1993 | Feb-24-1993 | Feb-23-1993 | Feb-23-1993 | Feb-24-1993 | Feb-24-1993 |
| Date Sample Received by Laboratory | Feb-25-1993 | Feb-25-1993 | Feb-24-1993 | Feb-24-1993 | Feb-25-1993 | Feb-25-1993 |
| Date Sample Extracted | Mar-08-1993 | Mar-08-1993 | Mar-08-1993 | Mar-08-1993 | Mar-08-1993 | Mar-08-1993 |
| Date Sample Analyzed | Mar-17-1993 | Mar-17-1993 | Mar-17-1993 | Mar-17-1993 | Mar-17-1993 | Mar-17-1993 |

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# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO
# ROUND 2 GROUNDWATER RESULTS

## Inorganics

| INORGANIC - ANALYTICAL RESULTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ERM-MW Sample Number | | | RNS-GW-S6 | RNS-GW-S6-111 | RNS-GW-S12 | RNS-GW-S21 | RNS-GW-S18 | RNS-GW-T2 |
| Laboratory Sample Number | | | C295 | C297 | C288 | C289 | C294 | C293 |
| Remarks | | | | Field Blank | | Dup GW-S12 | | |
| Units | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| INORGANIC ELEMENTS | | Detection Limit | | | | | | |
| Aluminum | P | 44.2 | 587.43 | | 409450 | 418830 | 236450 | |
| Antimony | F | 3.3 | UJ | 4.1 J | UJ | 6.4 U | UJ | |
| Arsenic | F | 1.0 | 60.6 | | 70.4 | 84.4 J | 18.8 | 5 6 J |
| Barium | P | 0.4 | 66.13 | | 227.16 | 239.83 | 32.89 J | 103 02 |
| Beryllium | P | 0.2 | 0.69 J | | 40.60 | 39.80 | 15.15 J | 1 02 J |
| Cadmium | P | 1.8 | R | R | 32.63 J | 45.46 J | 7.43 J | 4.33 J |
| Calcium | P | 10.7 | 182270 J | 80.26 J | 376620 J | 349210 J | 628630 J | 266000 J |
| Chromium | P | 3.0 | 70.56 J | UJ | 90.93 J | 105.82 J | 41.84 J | 5 22 J |
| Cobalt | P | 2.4 | 4.40 J | UJ | 548.96 J | 548.31 J | 325.50 J | 4.22 J |
| Copper | P | 1.6 | 244.21 J | 1.86 J | 491.64 J | 491.49 J | 1257.0 J | 11.15 U |
| Iron | P | 4.8 | 175990 | 35.60 | 471660 | 475480 | 282230 | 14999 |
| Lead | F | 0.9 | 17.6 | 1.8 | 345 J | 439 J | 17.5 | 3.5 U |
| Magnesium | P | 43.7 | 30996 | | 170160 | 161590 | 135760 | 83714 |
| Manganese | P | 0.4 | 7855.9 | 1.58 | 62310 | 58596 | 57909 | 426.06 |
| Mercury | CV | 0.20 | UJ | UJ | 0.26 J | 0.63 J | 1.77 | UJ |
| Nickel | P | 4.6 | 139.50 J | UJ | 1155.10 J | 1224.9 J | 519.17 J | 29.87 J |
| Potassium | P | 460.1 | 2552.7 J | | 14414 | 15230 | 13220 | 4314.0 J |
| Selenium | F | 1.9 | | | (2x) | (5x) | (2x) | |
| Silver | P | 2.4 | 11.49 J | UJ | 23.85 J | 24.69 J | 24.08 J | 23.23 J |
| Sodium | P | 138.1 | 110780 | 316.43 | 919080 | 874780 | 266740 | 120240 |
| Thallium | F | 1.2 | | | 1.6 J | 5.4 J | 1.9 J | |
| Vanadium | P | 2.0 | 4.85 U | UJ | 86.24 J | 93.02 J | 315.58 J | 6.69 U |
| Zinc | P | 3.7 | 1390.6 J | 5.27 J | 6648.4 J | 7949.9 J | 1678.5 J | 162.02 J |
| Cyanide | A | 10 | | | | | 25 3 | |

ANALYTICAL METHOD:

P - Inductively Coupled Plasma

F - Graphite Furnace Atomic Absorption

CV - Cold Vapor Atomic Absorption

A - Auto Analyzer

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# APPENDIX K

## SITE SURFACE DRAINAGEWAYS
## Laboratory Analytical Results

# APPENDIX K

## SITE SURFACE DRAINAGEWAYS
## SURFACE WATER
## Laboratory Analytical Results

## APPENDIX K
## SITE SURFACE DRAINAGEWAYS
### Surface Water

- Volatile Compounds
- Semivolatile Compounds
- Semivolatile Tentatively Identified Compounds
- Pesticides
- PCBs
- Mirex, Photomirex and Kepone

LEGEND:

| | |
|---|---|
| - | Compound was not detected. |
| J | Quantitation is approximate due to limitations identified during the quality control review (data validation). |
| N | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification." |
| R | Unreliable result - analyte may or may not be present in this sample. |
| UL | This analyte was not detected, but the quantitation limit is higher due to a low bias identified during the quality assurance review. |
| U | This compound should be considered "not detected" since it was detected in a blank at a similar level. |
| S | Matrix spike compound. |
| NA | Not analyzed. |
| B | This result is qualitatively suspect since this compound was detected in field and/or laboratory blanks at similar levels. |
| NR | Not received in time to be included in this submittal. |
| blank | The compound/constituent was analyzed for, but was not detected at a concentration at/or above the quantitation limit/detection limit. |
| * | The presence of this compound is indicated; however, the exact concentration cannot be calculated. |
| ** | This result for this compound is being reported from a dilution analysis. |

**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SURFACE WATER**

**Volatile Compounds**

| VOLATILE ORGANIC ANALYSES - | | | ANALYTICAL RESULTS - ALL SOLIDS REPORTED ON A DRY WEIGHT | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS- | SW-55 | SW-55DL | SW-57 | SW-57-105 | SW-57-202 |
| atory File Number | | | 6062-07 | 6062-07D | 6062-08 | 6062-09 | 6062-11 |
| ks | | | | | | Field Blank | Trip Blank |
| Units | | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quant. Limit (Aq) | Quant. Limit (Sol) | | | | | |
| Chloromethane | 10 | 10 | | | | | |
| Bromomethane | 10 | 10 | | | | | |
| Vinyl Chloride | 10 | 10 | | | | | |
| Chloroethane | 10 | 10 | | | | | |
| Methylene Chloride | 5.0 | 5.0 | 5.0 U | | | 6.0 | 5.0 J |
| Acetone | 10 | 10 | 86 U | | | | |
| Carbon Disulfide | 5.0 | 5.0 | | | | | |
| 1,1-Dichloroethene | 5.0 | 5.0 | | | | | |
| 1,1-Dichloroethane | 5.0 | 5.0 | | | | | |
| 1,2-Dichloroethene (total) | 5.0 | 5.0 | 21 J | 8.0 J | | | |
| Chloroform | 5.0 | 5.0 | 3.0 J | | | | |
| 1,2-Dichloroethane | 5.0 | 5.0 | 100 J | 63 J | | | |
| 2-Butanone | 10 | 10 | | | | | |
| 1,1,1-Trichloroethane | 5.0 | 5.0 | | | | | |
| Carbon Tetrachloride | 5.0 | 5.0 | 2.0 J | | | | |
| Vinyl Acetate | 10 | 10 | | | 6.0 J | | |
| Bromodichloromethane | 5.0 | 5.0 | | | | | |
| 1,1,2,2-Tetrachloroethane | 5.0 | 5.0 | 470 J | 310 J | | | |
| 1,2-Dichloropropane | 5.0 | 5.0 | | | | | |
| trans-1,3-Dichloropropene | 5.0 | 5.0 | | | | | |
| Trichloroethene | 5.0 | 5.0 | 94 J | 61 J | | | |
| Dibromochloromethane | 5.0 | 5.0 | 2.0 J | | | | |
| Trichloroethane | 5.0 | 5.0 | 4.0 J | | | | |
| e | 5.0 | 5.0 | 140 J | 90 J | | | |
| c .-Dichloropropene | 5.0 | 5.0 | | | | | |
| Bromoform | 5.0 | 5.0 | 6.0 | | | | |
| 2-Hexanone | 10 | 10 | | | | | |
| 4-Methyl-2-Pentanone | 10 | 10 | | | | | |
| Tetrachloroethene | 5.0 | 5.0 | 340 J | 220 J | | | |
| Toluene | 5.0 | 5.0 | 25 | 18 J | | | |
| Chlorobenzene | 5.0 | 5.0 | 13 | 9.0 J | | | |
| Ethylbenzene | 5.0 | 5.0 | 2.0 J | | | | |
| Styrene | 5.0 | 5.0 | | | | | |
| Xylene (total) | 5.0 | 5.0 | 6.0 | | | | |
| Quantitation Limit Multiplier | | | 1.0 | 5.0 | 1.0 | 1.0 | 1.0 |
| Date Sample Received by Laboratory | | | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 |
| Date of Sample Analysis | | | 05/04/90 | 05/06/90 | 05/04/90 | 05/04/90 | 05/04/90 |
| Instrument Used for Analysis | | | MS-V1 | MS-V4 | MS-V4 | MS-V4 | MS-V1 |

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| VOLATILE ORGANIC ANALYSES - | | BASIS | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS- | SW-58 | SW-58DL | SW-59 | SW-72 | SW-72-206 |
| Laboratory File Number | | | 6062-06 | 6062-06DL | 6062-05 | 7684-05 | 7684-03 |
| Remarks | | | | | | | Trip Blank |
| Units | | | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quant. Limit (Aq) | Quant. Limit (Sol) | | | | | |
| Chloromethane | 10 | 10 | | NA | | | 3 J |
| Bromomethane | 10 | 10 | | NA | | | |
| Vinyl Chloride | 10 | 10 | | NA | | | |
| Chloroethane | 10 | 10 | | NA | | | |
| Methylene Chloride | 5.0 | 5.0 | | NA | 6.0 U | 5 U | 13 |
| Acetone | 10 | 10 | 170 | NA | | | 6 J |
| Carbon Disulfide | 5.0 | 5.0 | | NA | | | |
| 1,1-Dichloroethene | 5.0 | 5.0 | | NA | | | |
| 1,1-Dichloroethane | 5.0 | 5.0 | | NA | | | |
| 1,2-Dichloroethene (total) | 5.0 | 5.0 | 14 | NA | | | |
| Chloroform | 5.0 | 5.0 | 1.0 J | NA | | | |
| 1,2-Dichloroethane | 5.0 | 5.0 | 69 | NA | | | |
| 2-Butanone | 10 | 10 | | NA | | | |
| 1,1,1-Trichloroethane | 5.0 | 5.0 | | NA | | | |
| Carbon Tetrachloride | 5.0 | 5.0 | | NA | | | |
| Vinyl Acetate | 10 | 10 | | NA | | | |
| Bromodichloromethane | 5.0 | 5.0 | | NA | | | |
| 1,1,2,2-Tetrachloroethane | 5.0 | 5.0 | 140 | NA | 62 | | |
| 1,2-Dichloropropane | 5.0 | 5.0 | | NA | | | |
| trans-1,3-Dichloropropene | 5.0 | 5.0 | | NA | | | |
| Trichloroethene | 5.0 | 5.0 | 82 | NA | 5.0 | | |
| Dibromochloromethane | 5.0 | 5.0 | | NA | | | |
| 1,1,2-Trichloroethane | 5.0 | 5.0 | 5.0 | NA | | | |
| Benzene | 5.0 | 5.0 | 38 | NA | 2.0 J | | |
| cis-1,3-Dichloropropene | 5.0 | 5.0 | | NA | | | |
| Bromoform | 5.0 | 5.0 | | NA | | | |
| 2-Hexanone | 10 | 10 | | NA | | | |
| 4-Methyl-2-Pentanone | 10 | 10 | | NA | | | |
| Tetrachloroethene | 5.0 | 5.0 | 54 | NA | 10 | | |
| Toluene | 5.0 | 5.0 | | NA | | | |
| Chlorobenzene | 5.0 | 5.0 | 1.0 J | NA | | | |
| Ethylbenzene | 5.0 | 5.0 | | NA | | | |
| Styrene | 5.0 | 5.0 | | NA | | | |
| Xylene (total) | 5.0 | 5.0 | | NA | | | |
| Quantitation Limit Multiplier | | | 1.0 | NA | 1.0 | 1.00 | 1.00 |
| Date Sample Received by Laboratory | | | 04/24/90 | NA | 04/24/90 | 11/30/90 | 11/30/90 |
| Date of Sample Analysis | | | 05/04/90 | NA | 05/04/90 | 12/07/90 | 12/07/90 |
| Instrument Used for Analysis | | | MS-V1 | NA | MS-V1 | MS-V2 | MS-V2 |

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| VOLATILE ORGANIC ANALYSES - | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS- | SW-72-113 | SW-73 | SW-73-207 | SW-74 |
| ratory File Number | | | 7684-04 | 7765-01 | 7765-05 | 7765-02 |
| arks | | | Field Blank | | Trip Blank | |
| Units | | | ug/L | ug/L | ug/L | ug/L |
| VOLATILE COMPOUNDS | Quant. Limit (Aq) | Quant. Limit (Sol) | | | | |
| Chloromethane | 10 | 10 | | | | |
| Bromomethane | 10 | 10 | | | | |
| Vinyl Chloride | 10 | 10 | | | | |
| Chloroethane | 10 | 10 | | | | |
| Methylene Chloride | 5.0 | 5.0 | 4 J | 5 U | 14 | 5 U |
| Acetone | 10 | 10 | | | | |
| Carbon Disulfide | 5.0 | 5.0 | | | | |
| 1,1-Dichloroethene | 5.0 | 5.0 | | | | |
| 1,1-Dichloroethane | 5.0 | 5.0 | | | | |
| 1,2-Dichloroethene (total) | 5.0 | 5.0 | | | | |
| Chloroform | 5.0 | 5.0 | | | | |
| 1,2-Dichloroethane | 5.0 | 5.0 | | | | |
| 2-Butanone | 10 | 10 | | | | |
| 1,1,1-Trichloroethane | 5.0 | 5.0 | | | | |
| Carbon Tetrachloride | 5.0 | 5.0 | | | | |
| Vinyl Acetate | 10 | 10 | | | | |
| Bromodichloromethane | 5.0 | 5.0 | | | | |
| 1,1,2,2-Tetrachloroethane | 5.0 | 5.0 | | | | |
| 1,2-Dichloropropane | 5.0 | 5.0 | | | | |
| trans-1,3-Dichloropropene | 5.0 | 5.0 | | | | |
| Trichloroethene | 5.0 | 5.0 | | | | |
| Dibromochloromethane | 5.0 | 5.0 | | | | |
| Trichloroethane | 5.0 | 5.0 | | | | |
| ne | 5.0 | 5.0 | | | | |
| cis-1,3-Dichloropropene | 5.0 | 5.0 | | | | |
| Bromoform | 5.0 | 5.0 | | | | |
| 2-Hexanone | 10 | 10 | | | | |
| 4-Methyl-2-Pentanone | 10 | 10 | | | | |
| Tetrachloroethene | 5.0 | 5.0 | | | | |
| Toluene | 5.0 | 5.0 | | | | |
| Chlorobenzene | 5.0 | 5.0 | | | | |
| Ethylbenzene | 5.0 | 5.0 | | | | |
| Styrene | 5.0 | 5.0 | | | | |
| Xylene (total) | 5.0 | 5.0 | | | | |
| Quantitation Limit Multiplier | | | 1.00 | 1.00 | 1.00 | 1.00 |
| Date Sample Received by Laboratory | | | 11/30/90 | 12/01/90 | 12/01/90 | 12/01/90 |
| Date of Sample Analysis | | | 12/07/90 | 12/11/90 | 12/11/90 | 12/11/90 |
| Instrument Used for Analysis | | | MS-V2 | MS-V3 | MS-V2 | MS-V3 |

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**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SURFACE WATER**

**Semivolatile Compounds**

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-55 | SW-55DL | SW-57 | SW-57-105 | SW-57-202 | SW-58 |
| oratory File Number | | 6062-07 | 6062-07D | 6062-08 | 6062-09 | 6062-11 | 6062-06 |
| arks | | | | | Field Blank | Trip Blank | |
| nits | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | | | | | NA | |
| bis(2-Chloroethyl)Ether | 10 | | | | | NA | |
| 2-Chlorophenol | 10 | | | | | NA | |
| 1,3-Dichlorobenzene | 10 | | | | | NA | |
| 1,4-Dichlorobenzene | 10 | | | | | NA | |
| Benzyl Alcohol | 10 | 11 | | | | NA | 7.0 J |
| 1,2-Dichlorobenzene | 10 | 160 J | 180 | | | NA | 28 |
| 2-Methylphenol | 10 | | | | | NA | |
| bis(2-Chloroisopropyl)Ether | 10 | | | | | NA | |
| 4-Methylphenol | 10 | | | | | NA | |
| N-Nitroso-Di-n-Propylamine | 10 | | | | | NA | |
| Hexachloroethane | 10 | 4.0 J | 5.0 J | | | NA | |
| Nitrobenzene | 10 | | | | | NA | |
| Isophorone | 10 | | | | | NA | |
| 2-Nitrophenol | 10 | 1.0 J | | | | NA | |
| 2,4-Dimethylphenol | 10 | | | | | NA | |
| Benzoic Acid | 50 | | | | | NA | 360 J |
| bis(2-Chloroethoxy)Methane | 10 | | | | | NA | |
| 2,4-Dichlorophenol | 10 | 4.0 J | | | | NA | |
| 1,2,4-Trichlorobenzene | 10 | | | | | NA | |
| Naphthalene | 10 | | | | | NA | |
| 4-Chloroaniline | 10 | | | | | NA | |
| Hexachlorobutadiene | 10 | | | | | NA | |
| 4-Chloro-3-Methylphenol | 10 | | | | | NA | |
| 2-Methylnaphthalene | 10 | | | | | NA | |
| achlorocyclopentadiene | 10 | | | | | NA | |
| 6-Trichlorophenol | 10 | | | | | NA | |
| ,4,5-Trichlorophenol | 50 | | | | | NA | |
| 2-Chloronaphthalene | 10 | | | | | NA | |
| 2-Nitroaniline | 50 | | | | | NA | |
| Dimethyl Phthalate | 10 | | | | | NA | |
| Acenaphthylene | 10 | | | | | NA | |
| 3-Nitroaniline | 50 | | | | | NA | |
| Acenaphthene | 10 | | | | | NA | |
| 2,4-Dinitrophenol | 50 | | | | | NA | |
| 4-Nitrophenol | 50 | | | | | NA | |
| Dibenzofuran | 10 | | | | | NA | |
| 2,4-Dinitrotoluene | 10 | | | | | NA | |
| 2,6-Dinitrotoluene | 10 | | | | | NA | |
| Diethylphthalate | 10 | | | | | NA | |
| 4-Chlorophenyl-phenylether | 10 | | | | | NA | |
| Fluorene | 10 | | | | | NA | |
| 4-Nitroaniline | 50 | | | | | NA | |
| 4,6-Dinitro-2-Methylphenol | 50 | | | | | NA | |
| N-Nitrosodiphenylamine (1) | 10 | | | | | NA | |
| 4-Bromophenyl-phenylether | 10 | | | | | NA | |
| Hexachlorobenzene | 10 | | | | | NA | |
| Pentachlorophenol | 10 | | | | | NA | |
| Phenanthrene | 10 | | | | | NA | |
| Anthracene | 10 | | | | | NA | |
| Di-n-Butylphthalate | 10 | | | | | NA | |
| Fluoranthene | 10 | | | | | NA | |
| Pyrene | 10 | | | | | NA | |
| Butylbenzylphthalate | 10 | | | | | NA | |
| 3,3'-Dichlorobenzidine | 20 | | | | | NA | |
| Benzo(a)Anthracene | 10 | | | | | NA | |
| ysene | 10 | | | | | NA | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-55 | SW-55DL | SW-57 | SW-57-105 | SW-57-202 | SW-58 |
| Laboratory File Number | | 6062-07 | 6062-07D | 6062-08 | 6062-09 | 6062-11 | 6062-06 |
| Remarks | | | | | Field Blank | Trip Blank | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| bis(2-Ethylhexyl)Phthalate | 10 | | | | | NA | |
| Di-n-Octyl Phthalate | 10 | | | | | NA | |
| Benzo(b)Fluoranthene | 10 | | | | | NA | |
| Benzo(k)Fluoranthene | 10 | | | | | NA | |
| Benzo(a)Pyrene | 10 | | | | | NA | |
| Indeno(1,2,3-cd)Pyrene | 10 | | | | | NA | |
| Dibenz(a,h)Anthracene | 10 | | | | | NA | |
| Benzo(g,h,i)Perylene | 10 | | | | | NA | |
| Diphenyl Sulfone | 10 | 390 J | 450 | | | NA | 180 J |
| | | | | | | | |
| Quantitation Limit Multiple | | 1.0 | 3.0 | 1.0 | 1.0 | NA | 1.0 |
| Date Sample Received by Laboratory | | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | NA | 04/24/90 |
| Date Sample Extracted | | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | NA | 04/24/90 |
| Date of Analysis | | 05/10/90 | 05/14/90 | 05/10/90 | 05/10/90 | NA | 05/10/90 |
| Instrument Used for Analysis | | GCMSS6 | GCMSS6 | GCMSS6 | GCMSS6 | NA | GCMSS6 |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-58DL | SW-59 | SW-72 | SW-72-113 | SW-73 | SW-74 |
| horatory File Number | | 6062-06DL | 6062-05 | 7684-05 | 7684-04 | 7765-01 | 7765-02 |
| arks | | | | | Field Blank | | |
| nits | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| Phenol | 10 | | | | | | |
| bis(2-Chloroethyl)Ether | 10 | | | | | 1 J | |
| 2-Chlorophenol | 10 | | | | | | |
| 1,3-Dichlorobenzene | 10 | | | | | | |
| 1,4-Dichlorobenzene | 10 | | | | | | |
| Benzyl Alcohol | 10 | 5.0 J | | | | | |
| 1,2-Dichlorobenzene | 10 | 31 | 13 | | | | |
| 2-Methylphenol | 10 | | | | | | |
| bis(2-Chloroisopropyl)Ether | 10 | | | | | | |
| 4-Methylphenol | 10 | | | | | | |
| N-Nitroso-Di-n-Propylamine | 10 | | | | | | |
| Hexachloroethane | 10 | | | | | | |
| Nitrobenzene | 10 | | | | | | |
| Isophorone | 10 | | | | | | |
| 2-Nitrophenol | 10 | | | | | | |
| 2,4-Dimethylphenol | 10 | | | | | | |
| Benzoic Acid | 50 | 310 | | | | | |
| bis(2-Chloroethoxy)Methane | 10 | | | | | | |
| 2,4-Dichlorophenol | 10 | | | | | | |
| 1,2,4-Trichlorobenzene | 10 | | | | | | |
| Naphthalene | 10 | | | | | | |
| 4-Chloroaniline | 10 | | | | | | |
| Hexachlorobutadiene | 10 | | | | | | |
| 4-Chloro-3-Methylphenol | 10 | | | | | | |
| 2-Methylnaphthalene | 10 | | | | | | |
| achlorocyclopentadiene | 10 | | | | | | |
| -Trichlorophenol | 10 | | | | | | |
| ,4,5-Trichlorophenol | 50 | | | | | | |
| 2-Chloronaphthalene | 10 | | | | | | |
| 2-Nitroaniline | 50 | | | | | | |
| Dimethyl Phthalate | 10 | | | | | | |
| Acenaphthylene | 10 | | | | | | |
| 3-Nitroaniline | 50 | | | | | | |
| Acenaphthene | 10 | | | | | | |
| 2,4-Dinitrophenol | 50 | | | | | | |
| 4-Nitrophenol | 50 | | | | | | |
| Dibenzofuran | 10 | | | | | | |
| 2,4-Dinitrotoluene | 10 | | | | | | |
| 2,6-Dinitrotoluene | 10 | | | | | | |
| Diethylphthalate | 10 | | | | | | |
| 4-Chlorophenyl-phenylether | 10 | | | | | | |
| Fluorene | 10 | | | | | | |
| 4-Nitroaniline | 50 | | | | | | |
| 4,6-Dinitro-2-Methylphenol | 50 | | | | | | |
| N-Nitrosodiphenylamine (1) | 10 | | | | | | |
| 4-Bromophenyl-phenylether | 10 | | | | | | |
| Hexachlorobenzene | 10 | | | | | | |
| Pentachlorophenol | 10 | | | | | | |
| Phenanthrene | 10 | | | | | | |
| Anthracene | 10 | | | | | | |
| Di-n-Butylphthalate | 10 | | | | | | |
| Fluoranthene | 10 | | | | | | |
| Pyrene | 10 | | | | | | |
| Butylbenzylphthalate | 10 | | | | | | |
| 3,3'-Dichlorobenzidine | 20 | | | | | | |
| Benzo(a)Anthracene | 10 | | | | | | |
| sene | 10 | | | | | | |

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-58DL | SW-59 | SW-72 | SW-72-113 | SW-73 | SW-74 |
| Laboratory File Number | | 6062-06DL | 6062-05 | 7684-05 | 7684-04 | 7765-01 | 7765-02 |
| Remarks | | | | | Field Blank | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | | | | | | |
| bis(2-Ethylhexyl)Phthalate | 10 | | | | | | |
| Di-n-Octyl Phthalate | 10 | | | | | | |
| Benzo(b)Fluoranthene | 10 | | | | | | |
| Benzo(k)Fluoranthene | 10 | | | | | | |
| Benzo(a)Pyrene | 10 | | | | | | |
| Indeno(1,2,3-cd)Pyrene | 10 | | | | | | |
| Dibenz(a,h)Anthracene | 10 | | | | | | |
| Benzo(g,h,i)Perylene | 10 | | | | | | |
| Diphenyl Sulfone | 10 | 210 | 110 | | | | |
| | | | | | | | |
| Quantitation Limit Multiple | | 2.0 | 1 00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Date Sample Received by Laboratory | | 04/24/90 | 04/24/90 | 11/30/90 | 11/30/90 | 12/01/90 | 12/01/90 |
| Date Sample Extracted | | 04/24/90 | 04/24/90 | 12/05/90 | 12/05/90 | 12/05/90 | 12/05/90 |
| Date of Analysis | | 05/14/90 | 05/10/90 | 12/22/90 | 12/22/90 | 12/21/90 | 12/21/90 |
| Instrument Used for Analysis | | GCMSS6 | GCMSS6 | GCMSS1 | GCMSS1 | GCMSS1 | GCMSS1 |

**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SURFACE WATER**

**Pesticides/PCBs**

| EXTRACTABLE ORGANIC ANALYSIS - ANALYTICAL RESULTS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-55 | SW-55DL | SW-57 | SW-57-10 | SW-57-20 | SW-58 | SW-58DL | SW-59 | SW-72 | SW-73 | SW-74 |
| Laboratory File Number | | 6062-07 | 6062-07D | 6062-08 | 6062-09 | 6062-11 | 6062-06 | 6062-06D | 6062-05 | 55922-11 | 55922-12 | 55922-13 |
| Remarks | | | | | Field Blank | Trip Blank | | | | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| PESTICIDES/PCBs | Quantitation Limit (Aq) | | | | | | | | | | | |
| alpha-BHC | 0.05 | | NA | | | NA | | NA | | | | |
| beta-BHC | 0.05 | | NA | | | NA | | NA | | | | |
| delta-BHC | 0.05 | | NA | | | NA | | NA | | | | |
| gamma-BHC (Lindane) | 0.05 | | NA | | | NA | | NA | | | | |
| Heptachlor | 0.05 | | NA | | | NA | | NA | | | | |
| Aldrin | 0.05 | | NA | | | NA | | NA | | | | |
| Heptachlor epoxide | 0.05 | | NA | | | NA | | NA | | | | |
| Endosulfan I | 0.05 | | NA | | | NA | | NA | | | | |
| Dieldrin | 0.10 | | NA | | | NA | | NA | | | | |
| 4,4'-DDE | 0.10 | | NA | | | NA | | NA | | | | |
| Endrin | 0.10 | | NA | | | NA | | NA | | | | |
| Endosulfan II | 0.10 | | NA | | | NA | | NA | | | | |
| 4,4'-DDD | 0.10 | | NA | | | NA | | NA | | | | |
| Endosulfan sulfate | 0.10 | | NA | | | NA | | NA | | | | |
| 4,4'-DDT | 0.10 | | NA | | | NA | | NA | | | | |
| Methoxychlor | 0.50 | 0.67 | NA | | | NA | | NA | | | | |
| Endrin ketone | 0.10 | | NA | | | NA | | NA | | | | |
| alpha-Chlordane | 0.10 | | NA | | | NA | | NA | | | | |
| gamma-Chlordane | 0.10 | | NA | | | NA | | NA | | | | |
| Toxaphene | 1.0 | | NA | | | NA | | NA | | | | |
| Aroclor-1016 | 0.5 | | NA | | | NA | | NA | | | | |
| Aroclor-1221 | 0.5 | | NA | | | NA | | NA | | | | |
| Aroclor-1232 | 0.5 | | NA | | | NA | | NA | | | | |
| Aroclor-1242 | 0.5 | | NA | | | NA | | NA | | | | |
| Aroclor-1248 | 0.5 | | NA | | | NA | | NA | | | | |
| Aroclor-1254 | 1.0 | | NA | | | NA | | NA | | | | |
| Aroclor-1260 | 1.0 | | NA | | | NA | | NA | | | | |
| | | | | | | | | | | | | |
| Quantitation Limit Multiple | | 1.0 | NA | 1.0 | 1.0 | NA | 1.0 | NA | 1.0 | 1.00 | 1.00 | 1.00 |
| Date Sample Received by Laboratory | | 04/24/90 | NA | 04/24/90 | 04/24/90 | NA | 04/24/90 | NA | 04/24/90 | 11/30/90 | 12/01/90 | 12/01/90 |
| Date Sample Extracted | | 04/25/90 | NA | 04/25/90 | 04/25/90 | NA | 04/25/90 | NA | 04/25/90 | 12/04/90 | 12/04/90 | 12/04/90 |
| Date Sample of Analysis | | 05/15/90 | NA | 05/15/90 | 05/15/90 | NA | 05/15/90 | NA | 05/15/90 | 12/18/90 | 12/18/90 | 12/18/90 |
| Instrument Used for Analysis | | MS-24 | NA | MS-24 | MS-24 | NA | MS-24 | NA | MS-24 | | | |

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**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SURFACE WATER**

**Mirex, Photomirex and Kepone**

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | SW-55 | SW-55DL | SW-57 | SW-57-105 | SW-57-202 | SW-58 | SW-58DL | SW-59 |
| Laboratory File Number | | 6062-07 | 6062-07D | 6062-08 | 6062-09 | 6062-11 | 6062-06 | 6062-06DL | 6062-05 |
| Remarks | | | | | Field Blank | Trip Blank | | | |
| Units | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| COMPOUNDS | Quantitation Limit (Aq) | | | | | | | | |
| Kepone | 0.132 | 0.292 J | | | | | | | |
| Photomirex | 0.0474 | 0.0151 J | | | | | | | |
| Mirex | 0.00544 | 0.362 | | | | | 0.0304 | | 0.0636 |
| | | | | | | | | | |
| Date Sample Received by Laboratory | | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 | 04/24/90 |
| Date Sample Extracted | | 04/26/90 | 04/26/90 | 04/26/90 | 04/26/90 | 04/26/90 | 04/26/90 | 04/26/90 | 04/26/90 |
| Date of Sample Analysis | | 05/23/90 | 05/23/90 | 05/23/90 | 05/23/90 | 05/23/90 | 05/23/90 | 05/23/90 | 05/23/90 |
| Instrument Used for Analysis | | GCMSS3 | GCMSS3 | GCMSS3 | GCMSS3 | GCMSS3 | GCMSS3 | GCMSS3 | GCMSS3 |

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# APPENDIX K

## SITE SURFACE DRAINAGEWAYS
## SEDIMENT
## Laboratory Analytical Results

**APPENDIX K**
**SITE SURFACE DRAINAGEWAYS**
**Sediment**

- Volatile Compounds
- Semivolatile Compounds
- Semivolatile Tentatively Identified Compounds
- Pesticides
- PCBs
- Mirex, Photomirex and Kepone

LEGEND:

| | |
|---|---|
| - | Compound was not detected. |
| J | Quantitation is approximate due to limitations identified during the quality control review (data validation). |
| N | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification." |
| R | Unreliable result - analyte may or may not be present in this sample. |
| UL | This analyte was not detected, but the quantitation limit is higher due to a low bias identified during the quality assurance review. |
| U | This compound should be considered "not detected" since it was detected in a blank at a similar level. |
| S | Matrix spike compound. |
| NA | Not analyzed. |
| B | This result is qualitatively suspect since this compound was detected in field and/or laboratory blanks at similar levels. |
| NR | Not received in time to be included in this submittal. |
| blank | The compound/constituent was analyzed for, but was not detected at a concentration at/or above the quantitation limit/detection limit. |
| * | The presence of this compound is indicated; however, the exact concentration cannot be calculated. |
| ** | This result for this compound is being reported from a dilution analysis. |

RUETGERS-NEASE CHEMICAL COMPANY, INC.
SALEM, OHIO

SITE SURFACE DRAINAGEWAYS
SEDIMENT

Volatile Compounds

VOLATILE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | RNS-SD-53 | RNS-SD-54 | RNS-SD-54-DL | RNS-SD-54-218 | RNS-SD-55 | RNS-SD-73 | RNS-SD-56 |
|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | V023 | V024 | V024D | V025 | V014 | V015 | V018 |
| Remarks | | | | Dilution | Trip Blank | | Duplicate of SD-55 | |
| Units | | ug/Kg | ug/Kg | ug/Kg | ug/L | ug/Kg | ug/Kg | ug/Kg |
| VOLATILE COMPOUNDS | Quantitation Limit | | | | | | | |
| Chloromethane | 10 | | | | 17 N | | | |
| Bromomethane | 10 | | | | | | | |
| Vinyl Chloride | 10 | | 14 J | | | | | |
| Chloroethane | 10 | | | | | | | |
| Methylene Chloride | 10 | 2 B | 2 B | | 7 J | 2 B | 2 B | |
| Acetone | 10 | 14 U | UJ | 41 U | 2 J | | 29 U | |
| Carbon Disulfide | 10 | | | | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | 380 J | 210 | | 260 | 280 | |
| Chloroform | 10 | | 16 J | 16 J | | 2 J | 2 J | |
| 1,2-Dichloroethane | 10 | | 320 J | 640 | | 60 | 53 | |
| 2-Butanone | 10 | UJ | UJ | | UJ | | 4 J | |
| 1,1,1-Trichloroethane | 10 | | | | | | 3 J | |
| Carbon Tetrachloride | 10 | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | 350 J | 370 | | 190 | 160 | |
| 1,2-Dichloropropane | 10 | | 3 J | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | |
| Trichloroethene | 10 | 2 J | 340 J | 420 | | 76 | 95 | |
| Dibromochloromethane | 10 | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | 10 J | | | | 5 J | |
| Benzene | 10 | | 45 J | 59 J | | 55 | 45 | |
| cis-1,3-Dichloropropene | 10 | | | | | | | |
| Bromoform | 10 | | | | | | | |
| 2-Hexanone | 10 | UJ | UJ | | UJ | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | | | |
| Tetrachloroethene | 10 | 14 U | 1800 J | 1900 | 1 J | 77 J | 120 J | 24 U |
| Toluene | 10 | | 8 J | | | | 2 J | |
| Chlorobenzene | 10 | | 16 J | 20 J | | 12 J | 12 J | |
| Ethylbenzene | 10 | | | | | | | |
| Styrene | 10 | UJ | UJ | | UJ | UJ | UJ | UJ |
| Total Xylenes | 10 | | | | | | 4 J | |
| Quantitation Limit Multiplier | | 1.4 | 2.0 | 10.0 | 1.0 | 1.8 | 1.5 | 2.4 |
| Date of Sample Collection | | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/16/92 | 11/16/92 | 11/16/92 |
| Date Sample Received by Laboratory | | 11/18/92 | 11/18/92 | 11/18/92 | 11/18/92 | 11/17/92 | 11/17/92 | 11/17/92 |
| Date of Sample Analysis | | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 | 11/23/92 | 11/23/92 | 11/23/92 |
| Instrument Used for Analysis | | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 |

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| VOLATILE ORGANIC ANALYSIS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | RNS-SD-56-217 | RNS-SD-57 | RNS-SD-57-113 | RNS-SD-58 | RNS-SD-59 | SD-72 | SD-72-114 | SD-73 | SD-74 |
| Laboratory Sample Number | | V019 | V016 | V017 | V013 | V020 | 7684-02 | 7684-01 | 7765-03 | 7765-04 |
| Remarks | | Trip Blank | | Field Blank | | | | Field Blank | | DUP-SD-73 |
| Units | | ug/L | ug/Kg | ug/L | ug/Kg | ug/Kg | ug/Kg | ug/L | ug/Kg | ug/Kg |
| VOLATILE COMPOUNDS | Quantitation Limit | | | | | | | | | |
| Chloromethane | 10 | 33 N | | | | | | | | |
| Bromomethane | 10 | | | | | | | | | |
| Vinyl Chloride | 10 | | | | | | | | | |
| Chloroethane | 10 | | | | | | | | | |
| Methylene Chloride | 10 | | | | | 4 B | 85 U | 6 | 67 U | 59 U |
| Acetone | 10 | 2 J | | | 17 U | 21 U | 69 U | 8 J | 150 | 450 |
| Carbon Disulfide | 10 | | | | | 4 J | | | | |
| 1,1-Dichloroethene | 10 | | | | | | | | | |
| 1,1-Dichloroethane | 10 | | | | | | | | | |
| Total 1,2-Dichloroethene | 10 | | | | 22 | 14 J | | | | |
| Chloroform | 10 | | | | | | | | | |
| 1,2-Dichloroethane | 10 | | | | 12 J | 5 J | | | | |
| 2-Butanone | 10 | UJ | | | | UJ | 69 U | | 86 U | 190 U |
| 1,1,1-Trichloroethane | 10 | | | | 5 J | | | | | |
| Carbon Tetrachloride | 10 | | | | | | | | | |
| Bromodichloromethane | 10 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 10 | | 8 J | | 3 J | | | | | |
| 1,2-Dichloropropane | 10 | | | | | | | | | |
| trans-1,3-Dichloropropene | 10 | | | | | | | | | |
| Trichloroethene | 10 | | | | 19 | 3 J | | | | |
| Dibromochloromethane | 10 | | | | | | | | | |
| 1,1,2-Trichloroethane | 10 | | | | | | | | | |
| Benzene | 10 | | | | 2 J | | | | | |
| cis-1,3-Dichloropropene | 10 | | | | | | | | | |
| Bromoform | 10 | | | | | | | | | |
| 2-Hexanone | 10 | UJ | | | | UJ | | | | |
| 4-Methyl-2-Pentanone | 10 | | | | | | | | | |
| Tetrachloroethene | 10 | 1 J | 38 U | 1 J | 12 J | 21 U | | | | |
| Toluene | 10 | | | | | | | | 27 J | |
| Chlorobenzene | 10 | | | | | | | | | |
| Ethylbenzene | 10 | | | | | | | | | |
| Styrene | 10 | UJ | UJ | UJ | UJ | UJ | | | | |
| Total Xylenes | 10 | | | | | | | | | |
| Quantitation Limit Multiplier | | 1.0 | 3.8 | 1.0 | 1.4 | 2.1 | 6.9 | 1.0 | 8.6 | 8.5 |
| Date of Sample Collection | | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | | | | |
| Date Sample Received by Laboratory | | 11/17/92 | 11/17/92 | 11/17/93 | 11/17/92 | 11/18/92 | 11/30/90 | 11/30/90 | 12/01/90 | 12/01/90 |
| Date of Sample Analysis | | 11/24/92 | 11/23/92 | 11/23/93 | 11/23/92 | 11/24/92 | 12/10/90 | 12/07/90 | 12/11/90 | 12/11/90 |
| Instrument Used for Analysis | | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-1050 | MS-V2 | MS-V2 | MS-V2 | MS-V2 |

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# RUETGERS-NEASE CHEMICAL COMPANY, INC.
# SALEM, OHIO

## SITE SURFACE DRAINAGEWAYS
## SEDIMENT

### Semivolatile Compounds

| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-53 | RNS-SD-54 | RNS-SD-55 | RNS-SD-75 |
| oratory Sample Number | | | S023 | S024 | S014 | S015 |
| uks | | | | | | Dup SD-55 |
| | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | |
| Phenol | 10 | 330 | | | 43 J | 32 J |
| bis(2-Chloroethyl)ether | 10 | 330 | | | | |
| 2-Chlorophenol | 10 | 330 | | | | |
| 1,3-Dichlorobenzene | 10 | 330 | | | | |
| 1,4-Dichlorobenzene | 10 | 330 | | 260 J | 96 J | 66 J |
| 1,2-Dichlorobenzene | 10 | 330 | 540 | 6800 | 4300 J | 3000 J |
| 2-Methylphenol | 10 | 330 | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | 330 | | | | |
| 4-Methylphenol | 10 | 330 | | | | |
| N-Nitroso-di-n-Propylamine | 10 | 330 | | | | |
| Hexachloroethane | 10 | 330 | | 98 J | 220 J | 180 J |
| Nitrobenzene | 10 | 330 | | | | |
| Isophorone | 10 | 330 | | | | |
| 2-Nitrophenol | 10 | 330 | | | | |
| 2,4-Dimethylphenol | 10 | 330 | | | | |
| bis(2-Chloroethoxy)methane | 10 | 330 | | | | |
| 2,4-Dichlorophenol | 10 | 330 | | 51 J | 420 J | 350 J |
| 1,2,4-Trichlorobenzene | 10 | 330 | | | | |
| Naphthalene | 10 | 330 | | 260 J | 85 J | 66 J |
| 4-Chloroaniline | 10 | 330 | | | | |
| Hexachlorobutadiene | 10 | 330 | | 230 J | 160 J | 130 J |
| 4-Chloro-3-Methylphenol | 10 | 330 | | | | |
| 2-Methylnaphthalene | 10 | 330 | | 460 J | 110 J | 88 J |
| exachlorocyclopentadiene | 10 | 330 | UJ | UJ | UJ | UJ |
| 2,4,6-Trichlorophenol | 10 | 330 | | | 95 J | 86 J |
| 2,4,5-Trichlorophenol | 25 | 800 | | | | |
| 2-Chloronaphthalene | 10 | 330 | | | | |
| 2-Nitroaniline | 25 | 800 | | | | |
| Dimethylphthalate | 10 | 330 | | | | |
| Acenaphthylene | 10 | 330 | | | 48 J | 37 J |
| 3-Nitroaniline | 25 | 800 | UJ | UJ | UJ | UJ |
| Acenaphthene | 10 | 330 | | | 33 J | 27 J |
| 2,4-Dinitrophenol | 25 | 800 | | | | |
| 4-Nitrophenol | 25 | 800 | UJ | UJ | UJ | UJ |
| Dibenzofuran | 10 | 330 | | 110 J | 72 J | 60 J |
| 2,4-Dinitrotoluene | 10 | 330 | | | | |
| 2,6-Dinitrotoluene | 10 | 330 | | | | |
| Diethylphthalate | 10 | 330 | 450 U | | 600 U | 500 U |
| 4-Chlorophenylphenylether | 10 | 330 | | | | |
| Fluorene | 10 | 330 | | | 45 J | 34 J |
| 4-Nitroaniline | 25 | 800 | UJ | UJ | UJ | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | 800 | | | | |
| N-Nitrosodiphenylamine | 10 | 330 | | | | |
| 4-Bromophenylphenylether | 10 | 330 | | | | |
| Hexachlorobenzene | 10 | 330 | | 2300 | 3000 | 2400 |
| Pentachlorophenol | 25 | 800 | | | | |
| Phenanthrene | 10 | 330 | 26 J | 530 J | 250 J | 200 J |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-53 | RNS-SD-54 | RNS-SD-55 | RNS-SD-75 |
| Laboratory Sample Number | | | S023 | S024 | S014 | S015 |
| Remarks | | | | | | Dup SD-55 |
| Units | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | |
| Anthracene | 10 | 330 | | 38 J | 110 J | 52 J |
| Carbazole | 10 | 330 | | | | |
| Di-n-Butylphthalate | 10 | 330 | | | | |
| Fluoranthene | 10 | 330 | | | 730 | 450 J |
| Pyrene | 10 | 330 | | | 920 J | 570 J |
| Butylbenzylphthalate | 10 | 330 | | | | |
| 3,3'-Dichlorobenzidine | 10 | 330 | UJ | UJ | UJ | UJ |
| Benzo(a)anthracene | 10 | 330 | | 110 J | 410 J | 270 J |
| bis(2-Ethylhexyl)phthalate | 10 | 330 | 450 U | 690 U | 600 U | 500 U |
| Chrysene | 10 | 330 | | 230 J | 510 J | 380 J |
| Di-n-Octylphthalate | 10 | 330 | UJ | UJ | UJ | UJ |
| Benzo(b)fluoranthene | 10 | 330 | | 160 J | 470 J | 310 J |
| Benzo(k)fluoranthene | 10 | 330 | | 170 J | 370 J | 300 J |
| Benzo(a)pyrene | 10 | 330 | | 110 J | 310 J | 200 J |
| Indeno(1,2,3-cd)pyrene | 10 | 330 | | | | |
| Dibenz(a,h)anthracene | 10 | 330 | | | | |
| Benzo(g,h,i)perylene | 10 | 330 | | | | |
| 3,4-Dichloronitrobenzene | 10 | 1022 | | | | |
| Diphenylsulfone | 25 | 1680 | | 10,000 | 9800 | 8200 |
| Quantitation Limit Multiplier | | | 1.37 | 2 | 1.78 | 1.5 |
| Date of Sample Collection | | | 11/17/92 | 11/17/92 | 11/16/92 | 11/16/92 |
| Date Sample Received by Labora | | | 11/18/92 | 11/18/92 | 11/17/92 | 11/17/92 |
| Date Sample Extracted | | | 11/25/92 | 11/25/92 | 11/25/92 | 11/25/92 |
| Date of Sample Analysis | | | 12/25/92 | 12/25/92 | 12/24/92 | 12/24/92 |
| Instrument Used for Analysis | | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-56 | RNS-SD-57 | RNS-SD-57-113 | RNS-SD-58 |
| ›ratory Sample Number | | | S018 | S016 | S017 | S013 |
| ›rks | | | | | Field Blank | |
| Units | | | ug/Kg | ug/Kg | ug/L | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | |
| Phenol | 10 | 330 | | | R | 60 J |
| bis(2-Chloroethyl)ether | 10 | 330 | | | R | |
| 2-Chlorophenol | 10 | 330 | | | R | |
| 1,3-Dichlorobenzene | 10 | 330 | | | R | |
| 1,4-Dichlorobenzene | 10 | 330 | | | R | |
| 1,2-Dichlorobenzene | 10 | 330 | 410 J | 540 J | R | 210 J |
| 2-Methylphenol | 10 | 330 | | | R | |
| 2,2-Oxybis(1-Chloropropane) | 10 | 330 | | | R | |
| 4-Methylphenol | 10 | 330 | | | R | |
| N-Nitroso-di-n-Propylamine | 10 | 330 | | | R | |
| Hexachloroethane | 10 | 330 | | | R | |
| Nitrobenzene | 10 | 330 | | | R | |
| Isophorone | 10 | 330 | | | R | |
| 2-Nitrophenol | 10 | 330 | | | R | |
| 2,4-Dimethylphenol | 10 | 330 | | | R | |
| bis(2-Chloroethoxy)methane | 10 | 330 | | | R | |
| 2,4-Dichlorophenol | 10 | 330 | | | R | |
| 1,2,4-Trichlorobenzene | 10 | 330 | | | R | |
| Naphthalene | 10 | 330 | 67 J | | R | |
| 4-Chloroaniline | 10 | 330 | | | R | |
| Hexachlorobutadiene | 10 | 330 | | | R | |
| 4-Chloro-3-Methylphenol | 10 | 330 | | | R | |
| 2-Methylnaphthalene | 10 | 330 | 110 J | | R | |
| Hexachlorocyclopentadiene | 10 | 330 | UJ | UJ | R | UJ |
| 2,4,6-Trichlorophenol | 10 | 330 | | | R | |
| 2,4,5-Trichlorophenol | 25 | 800 | | | R | |
| 2-Chloronaphthalene | 10 | 330 | | | R | |
| 2-Nitroaniline | 25 | 800 | | | R | |
| Dimethylphthalate | 10 | 330 | | | R | |
| Acenaphthylene | 10 | 330 | | | R | |
| 3-Nitroaniline | 25 | 800 | UJ | UJ | R | UJ |
| Acenaphthene | 10 | 330 | | | R | |
| 2,4-Dinitrophenol | 25 | 800 | | | R | |
| 4-Nitrophenol | 25 | 800 | UJ | UJ | R | UJ |
| Dibenzofuran | 10 | 330 | 46 J | | R | |
| 2,4-Dinitrotoluene | 10 | 330 | | | R | |
| 2,6-Dinitrotoluene | 10 | 330 | | | R | |
| Diethylphthalate | 10 | 330 | 800 U | 1300 | R | |
| 4-Chlorophenylphenylether | 10 | 330 | | | R | |
| Fluorene | 10 | 330 | | | R | |
| 4-Nitroaniline | 25 | 800 | UJ | UJ | R | UJ |
| 4,6-Dinitro-2-Methylphenol | 25 | 800 | | | R | |
| N-Nitrosodiphenylamine | 10 | 330 | | | R | |
| 4-Bromophenylphenylether | 10 | 330 | | | R | |
| Hexachlorobenzene | 10 | 330 | | | R | 47 J |
| Pentachlorophenol | 25 | 800 | | | R | |
| Phenanthrene | 10 | 330 | 170 J | 75 J | R | |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-56 | RNS-SD-57 | RNS-SD-57-113 | RNS-SD-58 |
| Laboratory Sample Number | | | S018 | S016 | S017 | S013 |
| Remarks | | | | | Field Blank | |
| Units | | | ug/Kg | ug/Kg | ug/L | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation | Quantitation | | | | |
| | Limit (Aq) | Limit (Sol) | | | | |
| Anthracene | 10 | 330 | | | R | |
| Carbazole | 10 | 330 | | | R | |
| Di-n-Butylphthalate | 10 | 330 | | 1300 U | R | |
| Fluoranthene | 10 | 330 | 140 J | | R | 81 J |
| Pyrene | 10 | 330 | 180 J | | R | 71 J |
| Butylbenzylphthalate | 10 | 330 | 160 J | | R | |
| 3,3'-Dichlorobenzidine | 10 | 330 | UJ | UJ | R | UJ |
| Benzo(a)anthracene | 10 | 330 | 60 J | 66 J | R | 47 J |
| bis(2-Ethylhexyl)phthalate | 10 | 330 | 900 U | 1300 U | 25 J | 460 U |
| Chrysene | 10 | 330 | 91 J | 88 J | R | 56 J |
| Di-n-Octylphthalate | 10 | 330 | UJ | UJ | R | UJ |
| Benzo(b)fluoranthene | 10 | 330 | 78 J | | R | 40 J |
| Benzo(k)fluoranthene | 10 | 330 | 68 J | | R | 44 J |
| Benzo(a)pyrene | 10 | 330 | | | R | 38 J |
| Indeno(1,2,3-cd)pyrene | 10 | 330 | | | R | 24 J |
| Dibenz(a,h)anthracene | 10 | 330 | | | R | |
| Benzo(g,h,i)perylene | 10 | 330 | | | R | |
| 3,4-Dichloronitrobenzene | 10 | 1022 | | | R | |
| Diphenylsulfone | 25 | 1660 | | | R | 1100 J |
| Quantitation Limit Multiplier | | | 2.4 | 3.9 | 1 | 1.38 |
| Date of Sample Collection | | | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 |
| Date Sample Received by Labora | | | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 |
| Date Sample Extracted | | | 11/25/92 | 11/25/92 | 12/22/92 | 11/25/92 |
| Date of Sample Analysis | | | 12/24/92 | 12/24/92 | 01/14/93 | 12/24/92 |
| Instrument Used for Analysis | | | TRIO-1A | TRIO-1A | TRIO-1A | TRIO-1A |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-59 | RNS-SD-72-114 | RNS-SD-72 | RNS-SD-73 | RNS-SD-74 |
| oratory Sample Number | | | S020 | 7684-01 | 7684-02 | 7765-03 | 7765-04 |
| arks | | | | Field Blank | | | DUP SD-73 |
| its | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | | |
| Phenol | 10 | 330 | | | | | |
| bis(2-Chloroethyl)ether | 10 | 330 | | | | | |
| 2-Chlorophenol | 10 | 330 | | | | | |
| 1,3-Dichlorobenzene | 10 | 330 | | | | | |
| 1,4-Dichlorobenzene | 10 | 330 | | | | | |
| 1,2-Dichlorobenzene | 10 | 330 | 710 U | | | | |
| 2-Methylphenol | 10 | 330 | | | | | |
| 2,2-Oxybis(1-Chloropropane) | 10 | 330 | | | | | |
| 4-Methylphenol | 10 | 330 | | | | | |
| N-Nitroso-di-n-Propylamine | 10 | 330 | | | | | |
| Hexachloroethane | 10 | 330 | | | | | |
| Nitrobenzene | 10 | 330 | | | | | |
| Isophorone | 10 | 330 | | | | | |
| 2-Nitrophenol | 10 | 330 | | | | | |
| 2,4-Dimethylphenol | 10 | 330 | | | | | |
| bis(2-Chloroethoxy)methane | 10 | 330 | | | | | |
| 2,4-Dichlorophenol | 10 | 330 | | | | | |
| 1,2,4-Trichlorobenzene | 10 | 330 | | | | | |
| Naphthalene | 10 | 330 | | | | | |
| 4-Chloroaniline | 10 | 330 | | | | | |
| Hexachlorobutadiene | 10 | 330 | | | | | |
| 4-Chloro-3-Methylphenol | 10 | 330 | | | | | |
| 2-Methylnaphthalene | 10 | 330 | | | | | |
| Hexachlorocyclopentadiene | 10 | 330 | UJ | | | | |
| 2,4,6-Trichlorophenol | 10 | 330 | | | | | |
| 2,4,5-Trichlorophenol | 25 | 800 | | | | | |
| 2-Chloronaphthalene | 10 | 330 | | | | | |
| 2-Nitroaniline | 25 | 800 | | | | | |
| Dimethylphthalate | 10 | 330 | | | | | |
| Acenaphthylene | 10 | 330 | | | | | |
| 3-Nitroaniline | 25 | 800 | UJ | | | | |
| Acenaphthene | 10 | 330 | | | | | |
| 2,4-Dinitrophenol | 25 | 800 | | | | | |
| 4-Nitrophenol | 25 | 800 | UJ | | | | |
| Dibenzofuran | 10 | 330 | | | | | |
| 2,4-Dinitrotoluene | 10 | 330 | | | | | |
| 2,6-Dinitrotoluene | 10 | 330 | | | | | |
| Diethylphthalate | 10 | 330 | | | | | |
| 4-Chlorophenylphenylether | 10 | 330 | | | | | |
| Fluorene | 10 | 330 | | | | | |
| 4-Nitroaniline | 25 | 800 | UJ | | | | |
| 4,6-Dinitro-2-Methylphenol | 25 | 800 | | | | | |
| N-Nitrosodiphenylamine | 10 | 330 | | | | | |
| 4-Bromophenylphenylether | 10 | 330 | | | | | |
| Hexachlorobenzene | 10 | 330 | | | | | |
| Pentachlorophenol | 25 | 800 | | | | | |
| Phenanthrene | 10 | 330 | | | | | |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-59 | RNS-SD-72-114 | RNS-SD-72 | RNS-SD-73 | RNS-SD- |
| Laboratory Sample Number | | | S020 | 7684-01 | 7684-02 | 7765-03 | 7765- |
| Remarks | | | | Field Blank | | | DUP SD-73 |
| Units | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| SEMIVOLATILE COMPOUNDS | Quantitation | Quantitation | | | | | |
| | Limit (Aq) | Limit (Sol) | | | | | |
| Anthracene | 10 | 330 | | | | | |
| Carbazole | 10 | 330 | | | | | |
| Di-n-Butylphthalate | 10 | 330 | | | | | |
| Fluoranthene | 10 | 330 | | | | | |
| Pyrene | 10 | 330 | | | | | |
| Butylbenzylphthalate | 10 | 330 | | | | | |
| 3,3'-Dichlorobenzidine | 10 | 330 | UJ | | | | |
| Benzo(a)anthracene | 10 | 330 | | | | | |
| bis(2-Ethylhexyl)phthalate | 10 | 330 | 1500 U | | | | |
| Chrysene | 10 | 330 | | | | | |
| Di-n-Octylphthalate | 10 | 330 | UJ | | | | |
| Benzo(b)fluoranthene | 10 | 330 | | | | | |
| Benzo(k)fluoranthene | 10 | 330 | | | | | |
| Benzo(a)pyrene | 10 | 330 | | | | | |
| Indeno(1,2,3-cd)pyrene | 10 | 330 | | | | | |
| Dibenz(a,h)anthracene | 10 | 330 | | | | | |
| Benzo(g,h,i)perylene | 10 | 330 | | | | | |
| 3,4-Dichloronitrobenzene | 10 | 1022 | | | | | |
| Diphenylsulfone | 25 | 1660 | | | | | |
| Quantitation Limit Multiplier | | | 2.14 | 1 | 28.5 | 36.4 | 39.4 |
| Date of Sample Collection | | | 11/16/92 | | | | |
| Date Sample Received by Labora | | | 11/18/92 | 11/30/90 | 11/30/90 | 12/1/90 | 12/1/90 |
| Date Sample Extracted | | | 11/25/92 | 12/5/90 | 12/5/90 | 12/5/90 | 12/5/ |
| Date of Sample Analysis | | | 12/24/92 | 12/22/90 | 12/22/90 | 12/21/90 | 12/21/9 |
| Instrument Used for Analysis | | | TRIO-1A | GSMSS1 | GSMSS1 | GSMSS1 | GSMSS1 |

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**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SEDIMENT**

**Pesticides/PCBs**

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | | RNS-SD-53 | RNS-SD-53DL | RNS-SD-54 | RNS-SD-54DL | RNS-SD-55 | RNS-SD-55DL | RNS-SD-75 | RNS-SD-75DL |
|---|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | | P023 | P023DL10 | P024 | P024DL10 | PO14DL10 | P014DL100 | P015DL10 | P015DL100 |
| Remarks | | | | Dilution | | Dilution | | Dilution | Duplicate of SD-55 | Dilution |
| Units | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| PESTICIDES/AROCLORS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | | | | | |
| alpha-BHC | 0.05 | 1.7 | | | | | | | | |
| beta-BHC | 0.05 | 1.7 | | | | | | | | |
| delta-BHC | 0.05 | 1.7 | | | | | | | | |
| gamma-BHC (Lindane) | 0.05 | 1.7 | | | | | | | | |
| Heptachlor | 0.05 | 1.7 | | | | | | | | |
| Aldrin | 0.05 | 1.7 | | | | | | | | |
| Heptachlor Epoxide | 0.05 | 1.7 | | | | | | | | |
| Endosulfan I | 0.05 | 1.7 | | | | | | | | |
| Dieldrin | 0.1 | 3.3 | | | 4.7 J | | 12 J | | 13 J | |
| 4,4'-DDE | 0.1 | 3.3 | | | | | | | | |
| Endrin | 0.1 | 3.3 | | | | | | | | |
| Endosulfan II | 0.1 | 3.3 | | | | | | | | |
| 4,4'-DDD | 0.1 | 3.3 | | | 11J | | | | | |
| Endosulfan Sulfate | 0.1 | 3.3 | | | | | | | | |
| 4,4'-DDT | 0.1 | 3.3 | | | | | | | | |
| Methoxychlor | 0.5 | 17 | 30 J | 26 J | 330 J | 330 J | 1000 J | 850 J | 1600 J | 1400 J |
| Endrin Ketone | 0.1 | 3.3 | | | | | | | | |
| Endrin Aldehyde | 0.1 | 3.3 | | | | | | | | |
| alpha-Chlordane | 0.05 | 1.7 | | | | | | | | |
| gamma-Chlordane | 0.05 | 1.7 | | | | | | | | |
| Toxaphene | 5 | 170 | | | | | | | | |
| Aroclor-1016 | 1 | 33 | | | | | | | | |
| Aroclor-1221 | 2 | 67 | | | | | | | | |
| Aroclor-1232 | 1 | 33 | | | | | | | | |
| Aroclor-1242 | 1 | 33 | | | | | | | | |
| Aroclor-1248 | 1 | 33 | | | | | | | | |
| Aroclor-1254 | 1 | 33 | | | | | | | | |
| Aroclor-1260 | 1 | 33 | | | | | | | | |
| Quantitation Limit Multiplier | | | 1.36 | 13.6 | 2 | 20 | 18.2 | 182 | 15.2 | 152 |
| Date of Sample Collection | | | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 |
| Date Sample Received by Laboratory | | | 11/18/92 | 11/18/92 | 11/18/92 | 11/18/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 |
| Date Sample Extracted | | | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 | 11/24/92 |
| Date of Sample Analysis | | | 12/25/92 | 12/25/92 | 12/25/92 | 12/25/92 | 12/24/92 | 12/24/92 | 12/24/92 | 12/24/92 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-56 | RNS-SD-57 | RNS-SD-57-113 | RNS-SD-58 | RNS-SD-59 | RNS-SD-59DL | SD-72 | SD-72 |
| Laboratory Sample Number | | | P018 | P016 | P017 | P013 | P020 | P020DL10 | 55922-08 | 55922-10 |
| Remarks | | | | | Field Blank | | | Dilution | | |
| Units | | | ug/Kg | ug/Kg | ug/L | ug/Kg | ug/Kg | ug/Kg | ug/L | ug/Kg |
| PESTICIDES/AROCLORS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | | | | | |
| alpha-BHC | 0.05 | 1.7 | | | R | | | | | |
| beta-BHC | 0.05 | 1.7 | | | R | | | | | |
| delta-BHC | 0.05 | 1.7 | | | R | | | | | |
| gamma-BHC (Lindane) | 0.05 | 1.7 | | | R | | UJ | | | |
| Heptachlor | 0.05 | 1.7 | | | R | | UJ | | | |
| Aldrin | 0.05 | 1.7 | | | R | | UJ | | | |
| Heptachlor Epoxide | 0.05 | 1.7 | | | R | | | | | |
| Endosulfan I | 0.05 | 1.7 | | | R | | | | | |
| Dieldrin | 0.1 | 3.3 | | | R | | | | | |
| 4,4'-DDE | 0.1 | 3.3 | | | R | | | | | |
| Endrin | 0.1 | 3.3 | | | R | | | | | |
| Endosulfan II | 0.1 | 3.3 | | | R | | | | | |
| 4,4'-DDD | 0.1 | 3.3 | | | R | | | | | |
| Endosulfan Sulfate | 0.1 | 3.3 | | | R | | | | | |
| 4,4'-DDT | 0.1 | 3.3 | | | R | | | | | |
| Methoxychlor | 0.5 | 17 | | | R | | | | | |
| Endrin Ketone | 0.1 | 3.3 | | | R | | | | | |
| Endrin Aldehyde | 0.1 | 3.3 | | | R | | | | | |
| alpha-Chlordane | 0.05 | 1.7 | | | R | | | | | |
| gamma-Chlordane | 0.05 | 1.7 | | | R | | | | | |
| Toxaphene | 5 | 170 | | | R | | | | | |
| Aroclor-1016 | 1 | 33 | | | R | | | | | |
| Aroclor-1221 | 2 | 67 | | | R | | | | | |
| Aroclor-1232 | 1 | 33 | | | R | | | | | |
| Aroclor-1242 | 1 | 33 | | | R | | | | | |
| Aroclor-1248 | 1 | 33 | | | R | | | | | |
| Aroclor-1254 | 1 | 33 | | | R | | | | | |
| Aroclor-1260 | 1 | 33 | | | R | | | | | |
| Quantitation Limit Multiplier | | | 2.42 | 3.82 | 1 | 1.4 | 2.12 | 21.2 | 1.00 | 7.12 |
| Date of Sample Collection | | | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | | |
| Date Sample Received by Laboratory | | | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/18/92 | 11/18/92 | 11/30/90 | 11/30/90 |
| Date Sample Extracted | | | 11/24/92 | 11/24/92 | 12/22/92 | 11/24/92 | 11/24/92 | 11/24/92 | 12/04/90 | 12/03/90 |
| Date of Sample Analysis | | | 12/24/92 | 12/24/92 | 01/06/93 | 12/24/92 | 12/24/92 | 12/24/92 | 12/18/90 | 01/05/91 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | |
|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | SD-72-113 | SD-72-114 | SD-73 | SD-74 |
| Laboratory Sample Number | | | 55922-07 | 55922-09 | 55922-14 | 55922-15 |
| Remarks | | | Field Blank | Field Blank | | DUP SD-73 |
| Units | | | ug/L | ug/L | ug/Kg | ug/Kg |
| PESTICIDES/AROCLORS | Quantitation Limit (Aq) | Quantitation Limit (Sol) | | | | |
| alpha-BHC | 0.05 | 1.7 | | | | |
| beta-BHC | 0.05 | 1.7 | | | | |
| delta-BHC | 0.05 | 1.7 | | | | |
| gamma-BHC (Lindane) | 0.05 | 1.7 | | | | |
| Heptachlor | 0.05 | 1.7 | | | | |
| Aldrin | 0.05 | 1.7 | | | | |
| Heptachlor Epoxide | 0.05 | 1.7 | | | | |
| Endosulfan I | 0.05 | 1.7 | | | | |
| Dieldrin | 0.1 | 3.3 | | | | |
| 4,4'-DDE | 0.1 | 3.3 | | | | |
| Endrin | 0.1 | 3.3 | | | | |
| Endosulfan II | 0.1 | 3.3 | | | | |
| 4,4'-DDD | 0.1 | 3.3 | | | | |
| Endosulfan Sulfate | 0.1 | 3.3 | | | | |
| 4,4'-DDT | 0.1 | 3.3 | | | | |
| Methoxychlor | 0.5 | 17 | | | | |
| Endrin Ketone | 0.1 | 3.3 | | | | |
| Endrin Aldehyde | 0.1 | 3.3 | | | | |
| alpha-Chlordane | 0.05 | 1.7 | | | | |
| gamma-Chlordane | 0.05 | 1.7 | | | | |
| Toxaphene | 5 | 170 | | | | |
| Aroclor-1016 | 1 | 33 | | | | |
| Aroclor-1221 | 2 | 67 | | | | |
| Aroclor-1232 | 1 | 33 | | | | |
| Aroclor-1242 | 1 | 33 | | | | |
| Aroclor-1248 | 1 | 33 | | | | |
| Aroclor-1254 | 1 | 33 | | | | |
| Aroclor 1260 | 1 | 33 | | | | |
| Quantitation Limit Multiplier | | | 1.00 | 1.00 | 7.75 | 8.38 |
| Date of Sample Collection | | | | | | |
| Date Sample Received by Laboratory | | | 11/30/90 | 11/30/90 | 12/01/90 | 12/01/90 |
| Date Sample Extracted | | | 12/04/90 | 12/04/90 | 12/03/90 | 12/03/90 |
| Date of Sample Analysis | | | 12/17/90 | 12/18/90 | 01/05/91 | 01/05/91 |

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**RUETGERS-NEASE CHEMICAL COMPANY, INC.**
**SALEM, OHIO**

**SITE SURFACE DRAINAGEWAYS**
**SEDIMENT**

**Mirex, Photomirex and Kepone**

EXTRACTABLE ORGANIC ANALYSIS

| ERM-Midwest Sample Number | | | RNS-SD-53 | RNS-SD-54 | RNS-SD-55 | RNS-SD-75 | RNS-SD-56 | RNS-SD-57 | RNS-SD-57RE |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory Sample Number | | | M023 | M024 | M014 | M015 | M018 | M016 | M016RE |
| Remarks | | | | | | Dup SD-55 | | | |
| Units | | | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| | Reporting Limit (Aq) | Reporting Limit (Sol) | | | | | | | |
| Kepone | 0.132 | 88.0 | R | R | R | R | R | R | R |
| Photomirex | 0.0474 | 20.4 | 57.3 | 299 J | 401 J | 530 J | | | R |
| Mirex | 0.00544 | 18.5 | 380 J | 46,400 J | 129,000 J | 106,000 J | 267 J | 136.0 | 874 J |
| Detection Limit Multiplier | | | 4.36/13.6 | 2.04/204/408 | 1.81/362/724 | 1.5/300/601 | 2.4 | 3.8 | 3.8 |
| Date of Sample Collection | | | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 | 11/16/92 |
| Date Sample Received by Laboratory | | | 11/18/92 | 11/18/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 | 11/17/92 |
| Date Sample Extracted | | | 11/23/92 | 11/23/92 | 11/23/92 | 11/23/92 | 11/23/92 | 11/20/92 | 12/20/92 |
| Date of Sample Analysis | | | 12/31 & 1/12 | 12/30 & 12/31 & 1 | 12/30 & 12/31 & 1 | 12/30 & 12/31 & 1 | 12/31/92 | 12/31/92 | 01/15/93 |
| Instrument Used for Analysis | | | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 | MS-4000 |

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| EXTRACTABLE ORGANIC ANALYSIS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ERM-Midwest Sample Number | | | RNS-SD-57-113 | RNS-SD-58 | RNS-SD-59 | RNS-SD-72-114 | RNS-SD-72 | RNS-SD-73 | RNS-SD-74 |
| Laboratory Sample Number | | | MO17 | M013 | M020 | 7684-01 | 7684-02 | 7765-03 | 7765-04 |
| Remarks | | | Field Blank | | | Field Blank | | | DUP SD-73 |
| Units | | | ug/L | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| | Reporting Limit (Aq) | Reporting Limit (Sol) | | | | | | | |
| Kepone | 0.132 | 68.0 | R | R | R | | R | | |
| Photomirex | 0.0474 | 20.4 | R | 46.3 | 36.6 J | | | | |
| Mirex | 0.00544 | 18.5 | 0.00632 J | 1100 J | 11,400 | .003 J | 513 J | 513 J | 438.0 |
| Detection Limit Multiplier | | | 1.0 | 1.41/35.2 | 2.17/543 | 1.0 | 6.9 | 8.9 | 6.8 |
| Date of Sample Collection | | | 11/16/92 | 11/16/92 | 11/16/92 | | | | |
| Date Sample Received by Laboratory | | | 11/17/92 | 11/17/92 | 11/17/92 | 11/30/90 | 11/30/90 | 12/1/90 | 12/1/90 |
| Date Sample Extracted | | | 12/22/92 | 11/22/92 | 11/23/92 | 12/4/90 | 12/5/90 | 12/5/90 | 12/5/90 |
| Date of Sample Analysis | | | 01/12/93 | 12/31 & 1/12 | 01/15/93 | 12/13/90 | 12/14/90 | 12/14/90 | 12/14/90 |
| Instrument Used for Analysis | | | MS-4000 | MS-4000 | MS-4000 | GSMSS3 | GSMSS3 | GSMSS3 | GSMSS3 |

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# APPENDIX K - AIR

## METEOROLOGICAL DATA AND AMBIENT AIR MONITORING RESULTS

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

## KEY TO AVIATION WEATHER OBSERVATIONS

| LOCATION IDENTIFIER TYPE AND TIME OF REPORT * | SKY AND CEILING | VISIBILITY WEATHER AND OBSTRUCTION TO VISION | SEA-LEVEL PRESSURE | TEMPERATURE AND DEW POINT | WIND | ALTIMETER SETTING | REMARKS AND CODED DATA |
|---|---|---|---|---|---|---|---|
| ACI SA 0758 | 15 SCT M25 OVC | 1R-F | 132 | /58/56 | /1807 | /993/ | RB1VR20V40 |

### SKY AND CEILING

Sky cover contractions are for each layer in ascending order. Figures preceding contractions are base heights in hundreds of feet above station elevation. Sky cover contractions used are

CLR = Clear. Less than 0.1 sky cover
SCT = Scattered. 0.1 to 0.5 sky cover
BKN = Broken. 0.6 to 0.9 sky cover
OVC = Overcast. More than 0.9 sky cover

— = Thin (When prefixed to SCT, BKN, OVC)
—X = Partly obscured. 0.9 or less of sky hidden by precipitation or obstruction to vision (bases at surface)
X = Obscured. 1.0 sky hidden by precipitation or obstruction to vision (bases at surface)

A letter preceding the height of a base identifies a ceiling layer and indicates how ceiling height was determined. Thus

E = Estimated
M = Measured
W = vertical visibility into obscured sky

V = Immediately following the height of a base indicates a variable ceiling

### VISIBILITY

Reported in statute miles and fractions
(V = variable)

### WEATHER AND OBSTRUCTION TO VISION SYMBOLS

| | | | | | |
|---|---|---|---|---|---|
| A | Hail | IC | Ice crystals | S | Snow |
| BD | Blowing dust | IF | Ice fog | SG | Snow grains |
| BN | Blowing sand | IP | Ice pellets | SP | Snow pellets |
| BS | Blowing snow | IPW | Ice pellet showers | SW | Snow showers |
| D | Dust | K | Smoke | T | Thunderstorms |
| F | Fog | L | Drizzle | T+ | Severe thunderstorm |
| GF | Ground fog | R | Rain | ZL | Freezing drizzle |
| H | Haze | RW | Rain showers | ZR | Freezing rain |

Precipitation intensities are indicated thus: - Light (no sign) Moderate + Heavy

**WIND** Direction in tens of degrees from true north, speed in knots. 0000 indicates calm. G indicates gusty. Q indicates Squalls. Peak wind speed in the past 10 minutes follows G or Q when gusts or squalls are reported. The contraction WSHFT, followed by GMT time group, in remarks, indicates windshift and its time of occurrence. (Knots x 1.15 = statute mi/hr)

**EXAMPLES:** 3627 = wind from 360 Degrees at 27 knots
3627G40 = wind from 360 Degrees at 27 knots, peak speed in gusts 40 knots

### ALTIMETER SETTING

The first figure of the actual altimeter setting is always omitted from the report.

### RUNWAY VISUAL RANGE (RVR)

RVR is reported from some stations. For planning purposes, the value range during 10 minutes prior to observations and based on runway light setting 5 are reported in hundreds of feet. Runway identification precedes RVR report.

### PILOT REPORTS (PIREPs)

When available, PIREPs in fixed-format may be appended to weather observations. PIREPs are designated by UA or UUA for urgent PIREPs.

### DECODED REPORT

Kansas City, International. Record observation completed at 0758 UTC. 1500 feet scattered, clouds measured ceiling 2500 feet overcast, visibility 1 mile, light rain, fog, sea-level pressure 1013.2 millibars, temperature 58°F, dewpoint 56°F, wind from 180° at 7 knots, altimeter setting 29.93 inches. Runway 01 visual range 2000 feet lowest 4000 feet highest in the past 10 minutes.

### * TYPE OF REPORT

SA = a scheduled record observation
SP = an unscheduled special observation indicating a significant change in one or more elements
RS = a scheduled record observation that also qualifies as a special observation

The designator for all three types of observations (SA, SP, RS) is followed by a 24-hour clock time group in Coordinated Universal Time (UTC or Z).

U.S. DEPARTMENT OF COMMERCE—NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION—NATIONAL WEATHER SERVICE

## KEY TO AVIATION WEATHER FORECASTS

**TERMINAL FORECASTS** contain information for specific airports on expected ceiling, cloud heights, cloud amounts, visibility, weather and obstructions to vision, and surface wind. They are issued 3 times/day, amended as needed, and are valid for up to 24 hours. The last six hours of each forecast period are covered by a categorical statement indicating whether VFR, MVFR, IFR or LIFR conditions are expected. (L in LIFR and M in MVFR indicate "low" and "marginal".) Terminal forecasts are written in the following form:

CEILING (identified by the letter "C") for lowest layer with cumulative sky cover greater than 5/10
CLOUD HEIGHTS (in hundreds of feet above the station ground)
SKY COVER AMOUNT (including any obscuration)
CLOUD LAYERS (Stated in ascending order of height)
VISIBILITY (in statute miles (omitted if over 6 miles))
WEATHER AND OBSTRUCTION TO VISION (Standard weather and obstruction to vision symbols are used)
SURFACE WIND (in tens of degrees and knots (omitted when less than 6 knots))

EXAMPLE OF TERMINAL FORECAST

**DCA 221010:** DCA Forecast 22nd day of month, valid time 10Z-10Z
**10SCT C18 BKN 55W—3415G25 OCNL C8 X 1/2SW:** Scattered clouds at 1000 feet, ceiling 1800 feet broken, visibility 5 miles, light snow showers, surface wind from 340 degrees at 15 knots. Gusts to 25 knots, occasional ceiling 8 hundred feet, sky totally obscured, visibility 1/2 mile in moderate snow showers
**12Z C50 BKN 3312G22:** By 12Z becoming ceiling 5000 feet broken, surface wind 330 degrees at 12 knots. Gusts to 22
**04Z MVFR CIG:** Last 6 hours of FT after 04Z marginal VFR due to ceiling

**AREA FORECASTS** are 12-hour aviation forecasts plus a 6-hour categorical outlook prepared 3 times/day, with each section amended as needed, giving general descriptions of potential hazards, airmass and frontal conditions, icing and freezing level, turbulence and low-level windshear and significant clouds and weather for an area the size of several states. Heights of cloud bases and tops, turbulence and icing are referenced ABOVE MEAN SEA LEVEL (MSL) unless indicated by Ceiling (CIG) or ABOVE GROUND LEVEL (AGL). Each SIGMET OR AIRMET affecting an FA area will also serve to amend the Area Forecast.

**SIGMET, AIRMET and CWA** messages (in-flight advisories) broadcast by FAA on NAVAID voice channels warn pilots of potentially hazardous weather. SIGMETs concern severe and extreme conditions of importance to all aircraft (e.g., icing, turbulence and dust storms, sandstorms or volcanic ash). Convective SIGMETs are issued for thunderstorms if they are sufficiently strong, widespread or embedded. AIRMETs concern less severe conditions which may be hazardous to aircraft, particularly smaller aircraft and less experienced or VFR only pilots. CWAs (Center Weather Advisories) concern both SIGMET and AIRMET type conditions described in greater detail and relating to a specific ARTCC area.

**WINDS AND TEMPERATURES ALOFT (FD) FORECASTS** are 6-, 12- and 24-hour forecasts of wind direction (nearest 100 true N) and speed (knots) for selected flight levels. Forecast Temperatures (Celsius) are included for all but the 3000-foot level.

EXAMPLES OF WINDS AND TEMPERATURES ALOFT (FD) FORECASTS
FD WBC 121645
BASED ON 121200Z DATA
VALID 130000Z FOR USE 2100-0500Z. TEMPS NEG ABV 24000 FT

| | 3000 | 6000 | 9000 | 12000 | 18000 | 24000 | 30000 | 34000 | 39000 |
|---|---|---|---|---|---|---|---|---|---|
| BOS | 3127 | 2425+07 | 3420+11 | 3420+06 | 3516+07 | 3516+06 | 3116+46 | 3024+51 | 3024+55 |
| JFK | 3235 | 3227+08 | 3324+12 | 3322+06 | 3122+07 | 3322+06 | 3424+38 | 3515+52 | 3515+49 |

At 6000 feet MSL over JFK wind from 330° at 27 knots and temperature minus 8°C.

**TWEB (CONTINUOUS TRANSCRIBED WEATHER BROADCAST)**—individual route forecasts covering a 25-nautical-mile zone either side of the route. By requesting a specific route number, detailed en route weather for a 15-hour period plus a synopsis can be obtained.

**PILOTS...** report in-flight weather to nearest FSS. The latest surface weather reports are available by phone at the nearest pilot weather briefing office by calling at H + 10.

U.S. DEPARTMENT OF COMMERCE—NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION—NATIONAL WEATHER SERVICE—REVISED JANUARY 1987

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 10, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0050 250 -SCT 10 180/59/58/2004/007/ 000 1001 74 (GES 05:53Z)

72524 32966 22004 10150 20144 39890 40180 50000 80001 333 10233 20150 70272 555 91006= (GES05:54Z)

SA 0150 250 -SCT 10 184/59/58/2104/008 (GES 06:50Z)
SA 0250 250 -SCT 10 183/59/58/2204/008/ 98323 (GES 07:51Z)
SA 0350 250 -SCT 10 185/59/59/2205/008/ 105 1001 (GES 08:53Z)
SA 0450 250 -SCT 10 189/60/59/2204/009 (GES 09:50Z)
SA 0551 250 -BKN 7 192/59/58/2204/011 (GES 10:52Z)
SA 0650 250 -OVC 10 200/60/58/2305/012/ 214 1007 57 20004 (GES 11:51Z)

72524 32966 82305 10156 20144 39909 40200 52014 80007 333 10233 20139 70010 555 91012= (GES11:53Z)

SA 0750 250 -OVC 10 198/63/59/2206/012 (EES 12:51Z)
SA 0850 250 -BKN 10 201/68/62/2206/013 (EES 13:51Z)
SA 0951 250 -OVC 15 200/73/63/2306/013/ 302 1007 (EES 15:00Z)
SA 1050 250 -OVC 15 202/76/62/2407/013 (EES 15:51Z)
SA 1150 250 -OVC 15 202/77/64/2407/014 (EES 16:51Z)
SA 1251 33 SCT 250 -OVC 15 200/78/63/2407/013/ 000 1107 57 (EES 17:53Z)

72524 32674 82407 10256 20172 39910 40200 50000 82107 333 10256 20139 555 44023 91010= (EES17:54Z)

SA 1350 37 SCT 250 -BKN 15 198/79/64/2307/013 (EES 18:51Z)
SA 1450 40 SCT 250 -BKN 15 193/80/63/2407/011 (EES 19:50Z)
SA 1551 42 SCT 250 -BKN 15 188/80/63/2308/009/ 712 1108 (EES 20:51Z)
SA 1650 250 -OVC 15 187/80/62/2306/010/FEW CU (EES 21:52Z)
SA 1750 250 -OVC 15 192/77/64/2406/010 (EES 22:51Z)
SA 1851 E250 OVC 15 201/74/64/2405/013/ 312 1007 81 (EES 23:53Z)

72524 32974 82405 10233 20178 39910 40201 53012 80007 333 10272 20139 555 91100= (EES23:54Z)

SA 1953 E250 OVC 15 202/70/65/2104/014 (HJW 00:54Z)
SA 2052 E250 OVC 15 205/69/64/2203/015 (HJW 01:53Z)
SA 2153 E250 OVC 15 205/67/63/2104/015/ 105 1007 (HJW 02:54Z)
SA 2250 120 SCT E250 BKN 15 208/66/63/2106/016 (HJW 03:50Z)
SA 2350 50 SCT 250 -OVC 15 211/66/63/2206/017 (GES 04:52Z)

F1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 10, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.205 | | | 0 | 000 | |
| 0150 | 29.215 | | | | | |
| 0250 | 29.215 | | | | | |
| 0350 | 29.220 | | | 1 | 005 | |
| 0450 | 29.230 | | | | | |
| 0551 | 29.240 | | | | | |
| 0650 | 29.260 | | | 2 | 014 | |
| 0750 | 29.255 | | | | | |
| 0850 | 29.265 | | | | | |
| 0951 | 29.265 | | | 3 | 002 | |
| 1050 | 29.270 | | | | | |
| 1150 | 29.270 | | | | | |
| 1251 | 29.265 | | | 0 | 000 | |
| 350 | 29.260 | | | | | |
| 1450 | 29.245 | | | | | |
| 1551 | 29.230 | | | 7 | 012 | |
| 1650 | 29.230 | | | | | |
| 1750 | 29.240 | | | | | |
| 1851 | 29.265 | | | 3 | 012 | |
| 1953 | 29.270 | | | | | |
| 2052 | 29.280 | | | | | |
| 2153 | 29.280 | | | 1 | 005 | |
| 2250 | 29.290 | | | | | |
| 2350 | 29.300 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time -16- | Tot. Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | 1st. Hgt -27- | Sum -28- | Amt -29- | Type -30- | 2nd. Hgt -31- | Sum -32- | Amt -33- | Type -34- | 3rd. Hgt -35- | Sum | Amt | Type | 4th Hgt | Sum | Amt | Type | Hgt | | Tot. Opq. -36- |
| 0050 | 3 | 3 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 0 |
| 0150 | 3 | 3 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 0 |
| 0250 | 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 0 |
| 0350 | 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 0 |
| 0450 | 3 | 3 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 0 |
| 0551 | 7 | 7 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 2 |
| 0650 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 3 |
| 0750 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 3 |
| 0850 | 8 | 8 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 2 |
| 0951 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 3 |
| 1050 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 3 |
| 1150 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | | 4 |
| 1251 | 10 | 2 | CU | 33 | 10 | CS | 250 | 10 | | | | | | | | | | | | | | | | | 4 |
| 1350 | 9 | 2 | CU | 33 | 9 | CS | 250 | 9 | | | | | | | | | | | | | | | | | 3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1551 | 8 | 2 | CU | 42 | 5 | CS | 250 | 8 | 5 |
| 1650 | 10 | 8 | CU | 42 | 10 | CS | 250 | 10 | 3 |
| 1750 | 10 | 10 | CS | 250 | | | | | 5 |
| 1851 | 10 | 10 | CS | E250 | | | | | 7 |
| 1953 | 10 | 10 | CS | E250 | | | | | 10 |
| 2052 | 10 | 10 | CS | E250 | | | | | 8 |
| 2153 | 10 | 10 | CS | E250 | | | | | 6 |
| 2250 | 9 | 1 | AC | 120 | 9 | CS | E250 | 9 | 6 |
| 2350 | 10 | 4 | SC | 50 | 6 | CS | 250 | 10 | 5 |

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Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp (F) - 47 - | Min. Temp (F) - 48 - | State of Grnd. - 50 - | Soil Temp (F) - 55 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0349 | | 0.00 | 0.0 | | 60 | 59 | | | | |
| 0849 | 1 | 0.00 | 0.0 | 0 | 67 | 59 | | | 29.200 | +0.005 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 60 | 57 | | | 29.250 | +0.010 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 78 | 60 | | | 29.260 | +0.005 |
| 1849 | 4 | 0.00 | 0.0 | 0 | 81 | 74 | | | 29.255 | +0.010 |
| Mid. | | 0.00 | 0.0 | 0 | 75 | 65 | | | | |

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Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | 57 | 0.00 | 0.0 | 0 | 15 | SW | 1401 | 9 | 8 | | 0602 | 1846 | 672 | 88 | 9 | 23 | 1551 |

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Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|

<<<< None Logged >>>>

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90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLEAR  Character of Sunset: CLOUDY

Time Check: 0040/0625/1024/

LAKE TEMP 74 DEGREES//HYGROTHERMOMETER CHECK 1020E HOB3 D.B. 74.3 D.P. 62.4

SHELTER D.B. 74.7 W.B. 66.8 D.P. 62.6//

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MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 11, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0051 250 -OVC 15 213/66/63/2304/017/ 108 1007 81 (GES 05:54Z)

72524 32974 02304 10169 20172 39924 40213 51008 80007 333 10272 20139 70000 555 91106= (GES05:57Z)

SA 0151 41 SCT 55 SCT E250 OVC 15 213/65/62/0000/017 (GES 06:53Z)
SA 0251 36 SCT M44 BKN 70 OVC 10 213/65/63/0000/017/ 98672 (GES 07:53Z)
RS 0350 8 SCT M30 OVC 7 218/65/63/2204/019/ 305 15// (GES 08:52Z)
SP 0416 M6 OVC 3F 3604/019 (GES 09:17Z)
SA 0450 M6 BKN 11 OVC 3F 221/69/68/0106/020 (GES 09:51Z)
RS 0550 6 SCT M17 BKN 250 OVC 3F 227/69/68/0104/021 (GES 10:52Z)
SP 0607 M8 BKN 13 OVC 2F 0505/022 (GES 11:09Z)
SP 0632 -X 8 SCT M17 BKN 250 OVC 2F 0304/023/F2 (GES 11:34Z)
SP 0643 -X 10 SCT M18 BKN 250 OVC 2F 0505/023/F2 (GES 11:45Z)
SA 0651 -X 10 SCT M23 BKN 250 OVC 2F 234/69/67/0304/023/F1/ 215 1507 64 (GES 11:54Z)

72524 31432 00304 10206 20194 39944 40234 52015 74222 85507 333 10272 20178 555 91112= (GES12:01Z)

SP 0741 -X E25 BKN 250 OVC 3F 0505/023/F1 (EES 12:43Z)
RS 0750 -X M9 BKN 250 OVC 3F 233/71/68/0204/023/F1 (EES 12:51Z)
SA 0850 -X M9 OVC 3F 236/73/68/0206/024/F1 BINOVC (EES 13:50Z)
SP 0929 M12 BKN 20 OVC 3F 0606/024/ BINOVC (EES 14:31Z)
RS 0951 M18 OVC 3F 238/74/68/0405/025/BINOVC/ 203 15// (EES 14:52Z)
SA 1050 M16 OVC 3H 238/75/68/0107/024/BINOVC (EES 15:51Z)
SP 1138 16 SCT 250 -OVC 5H 0105/024 (EES 16:39Z)
SA 1150 16 SCT 250 -OVC 5H 236/77/68/0104/024 (EES 16:51Z)
SA 1251 20 SCT 250 -OVC 5H 234/78/68/3506/023/ 803 1707 64 (EES 17:54Z)

72524 31558 03506 10256 20200 39944 40234 58003 70522 82707 333 10261 20178 555 44024 91118= (EES17:55Z)

SA 1350 250 -BKN 350 -OVC 5H 227/77/67/3508/021/FEW CU (EES 18:51Z)
SA COR 1350 250 -BKN 350 -OVC 5H 227/77/67/3506/021/FEW CU CC OVHD (EES 18:54Z)
SA 1450 150 SCT 250 -OVC 5H 226/76/67/0108/021 (EES 19:51Z)
SA 1550 250 -OVC 6H 226/74/66/0209/021/ 808 1001 (LH 20:50Z)
SA COR 1550 250 -OVC 6H 226/74/66/0209/021/ 608 1001 (LH 20:51Z)
SA 1650 250 -OVC 6H 226/72/65/0407/021 (LH 21:50Z)
SA 1750 250 -OVC 7 226/70/64/0407/021 (LH 22:50Z)
SA 1850 250 -OVC 7 226/68/64/0405/021/ 400 1007 79 (LH 23:50Z)

72524 32961 60405 10200 20178 39936 40226 54000 80007 333 10261 20178 555 91200= (LH23:50Z)

SA 1950 250 -OVC 7 228/68/64/0304/021 (LH 00:50Z)
SA 2050 E250 OVC 10 229/67/63/0403/022/THN SPTS IOVC (LH 01:50Z)
SA 2150 E250 OVC 10 228/66/62/0606/021/THN SPTS IOVC/ 002 1007 (LH 02:50Z)
SA 2250 250 -OVC 10 229/65/62/1306/022 (LH 03:50Z)
SA 2350 250 -OVC 10 227/65/62/0000/021 (GES 04:50Z)

F1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 11, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 29.305 | | | 1 | 009 | |
| 0151 | 29.305 | | | | | |
| 0251 | 29.305 | | | | | |
| 0350 | 29.320 | | | 3 | 005 | |
| 0450 | 29.330 | | | | | |
| 0550 | 29.345 | | | | | |
| 0651 | 29.365 | | | 2 | 015 | |
| 0750 | 29.360 | | | | | |
| 0850 | 29.370 | | | | | |
| 0951 | 29.375 | | | 2 | 003 | |
| 1050 | 29.375 | | | | | |
| 1150 | 29.370 | | | | | |
| 1251 | 29.365 | | | 0 | 003 | |
| 1350 | 29.345 | | | | | |
| 1450 | 29.340 | | | | | |
| 1550 | 29.340 | | | 6 | 008 | |
| 1650 | 29.340 | | | | | |
| 1750 | 29.340 | | | | | |
| 1850 | 29.340 | | | 4 | 000 | |
| 1950 | 29.345 | | | | | |
| 2050 | 29.350 | | | | | |
| 2150 | 29.345 | | | 0 | 002 | |
| 2250 | 29.350 | | | | | |
| 2350 | 29.345 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [ FIRST ] Amt -22- | Type -23- | Hgt -24- | [ SECOND ] Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | [ THIRD ] Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | [ FOURTH ] Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | [ FIFTH ] Amt | Type | Hgt | 4th Sum | [ SIXTH ] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0051 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 0151 | 10 | 4 | SC | 41 | 1 | SC | 55 | 5 | 5 | CS | E250 | 10 | | | | | | | | | | | | 7 |
| 0251 | 10 | 2 | SC | 36 | 5 | SC | M44 | 7 | 3 | AC | 70 | 10 | | | | | | | | | | | | 10 |
| 0350 | 10 | 4 | SC | 8 | 6 | SC | M30 | 10 | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 7 | ST | M6 | 3 | ST | 11 | 10 | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 3 | ST | 6 | 5 | SC | M17 | 8 | 2 | CS | 250 | 10 | | | | | | | | | | | | 10 |
| 0651 | 10 | 1 | F | 0 | 2 | ST | 10 | 3 | 3 | SC | M23 | 6 | 4 | CS | 250 | 10 | | | | | | | | 7 |
| 0750 | 10 | 1 | F | 0 | 7 | STFRA | M9 | 8 | 2 | CS | 250 | 10 | | | | | | | | | | | | 9 |
| 0850 | 10 | 1 | F | 0 | 9 | STFRA | M9 | 10 | | | | | | | | | | | | | | | | 10 |
| 0951 | 10 | 10 | SC | M10 | | | | | | | | | | | | | | | | | | | | 10 |
| 1050 | 10 | 10 | CUFRA | M16 | | | | | | | | | | | | | | | | | | | | 10 |
| 1150 | 10 | 3 | CUFRA | 16 | 10 | CS | 250 | 10 | | | | | | | | | | | | | | | | 3 |
| 1251 | 10 | 2 | CUFRA | 70 | 10 | CS | 250 | 10 | | | | | | | | | | | | | | | | 3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1450 | 10 | 2 | AC | 150 | 10 | CS | 250 | 10 | | 3 |
| 1550 | 10 | 10 | CI | 250 | | | | | | 4 |
| 1650 | 10 | 10 | CC | 250 | | | | | | 5 |
| 50 | 10 | 10 | CI | 250 | | | | | | 5 |
| 50 | 10 | 10 | CS | 250 | | | | | | 5 |
| 150 | 10 | 10 | CS | 250 | | | | | | 5 |
| 2050 | 10 | 10 | CS | E250 | | | | | | 8 |
| 2150 | 10 | 10 | CS | E250 | | | | | | 9 |
| 2250 | 10 | 10 | CS | 250 | | | | | | 5 |
| 2350 | 10 | 10 | CS | 250 | | | | | | 4 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0049 | | 0.00 | 0.0 | | 66 | 65 | | | | |
| 0649 | 1 | 0.00 | 0.0 | 0 | 75 | 65 | | | 29.295 | +0.010 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 69 | 64 | | | 29.355 | +0.010 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 79 | 69 | | | 29.360 | +0.005 |
| 1846 | 4 | 0.00 | 0.0 | 0 | 79 | 68 | | | 29.335 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 68 | 64 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 64 | 0.00 | 0.0 | 0 | 12 | N | 1500 | 10 | 10 | | 0603 | 1844 | 468 | 61 | 10 | 2 | 1550 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F | 0415 | 1030 |
| H | 1030 | 1740 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0112/1240/1522/2330

LAKE TEMP 75 DEGREES//ACFT MISHAP 1119152 NTFYD 1120152//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOA.
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 12, 1990  To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0050 250 -OVC 10 222/63/61/2004/020/ 805 1007 79 (GES 05:51Z)

72524 32966 82004 10172 20161 39932 40222 58005 80007 333 10261 20172 70000 555 91206= (GES05:53Z)

SA 0150 250 -OVC 10 221/63/61/0000/019 (GES 06:50Z)
SA 0250 250 -OVC 10 219/62/61/0000/019/ 98468 (GES 07:51Z)
SA 0350 250 -OVC 10 216/63/61/1703/018/ 707 1007 (GES 08:52Z)
SA 0450 250 -OVC 10 214/63/61/0000/017 (GES 09:51Z)
SA 0550 250 -OVC 7 220/61/60/0000/019 (GES 10:51Z)
SA 0650 250 -OVC 5F 222/63/61/0000/019/ 305 1007 60 (GES 11:51Z)

72524 31958 60000 10172 20161 39931 40222 53005 71022 80007 333 10261 20156 555 91212= (GES11:52Z)

SA 0750 130 SCT 250 -OVC 5F 221/67/63/1303/019 (EES 12:52Z)
SA 0850 130 SCT E250 OVC 5F 224/71/65/1404/020 (EES 13:51Z)
SA 0951 E130 BKN 250 OVC 5F 226/75/67/1605/021/ 305 1058 (EES 14:53Z)
SA 1050 E130 BKN 250 OVC 5F 224/75/67/1607/020 (EES 15:51Z)
SA 1150 130 SCT E250 OVC 5F 220/78/68/1905/019 (EES 16:51Z)
SA 1251 M30 BKN 130 OVC 5F 215/79/68/1305/018/MDT CU ALQDS/ 710 127/ 60 (EES 17:53Z)

72524 31559 81305 10261 20200 39926 40215 57010 70522 8627/ 333 10272 20156 555 44024 91210= (EES17:54Z)

SA 1350 40 SCT 85 SCT E130 OVC 5F 212/78/66/2006/017/TCU N (EES 18:51Z)
SA 1450 37 SCT E250 OVC 4F 212/76/69/0306/016 (EES 19:51Z)
SA 1550 37 SCT E150 BKN 4H 212/78/68/3604/017/ 703 1170 (LH 20:51Z)
SA 1650 -X 30 SCT E150 BKN 250 BKN 4H 212/76/69/2403/016/H2 (LH 21:50Z)
SA 1750 -X M110 BKN 250 OVC 4H 212/75/68/2104/016/H2 (LH 22:50Z)
SA 1850 -X E250 OVC 4H 211/73/68/1804/016/H2/ 602 1007 81 (LH 23:50Z)

72524 31956 81504 10228 20200 39928 40211 56002 70522 80007 333 10272 20156 555 91300= (LH23:51Z)

SA 1950 -X E250 OVC 4FH 216/71/67/0000/018/H2 (LH 00:51Z)
SA 2050 -X E250 OVC 4FH 215/70/67/1804/018/FH2 (LH 01:50Z)
SA 2150 -X E250 OVC 4F 219/67/66/2005/019/F2/ 208 1007 (LH 02:50Z)
SA 2250 -X E250 OVC 4F 220/67/66/1603/019/F2 (LH 03:50Z)
SA 2350 -X E250 OVC 4F 224/65/64/0000/020/F2 (GES 04:51Z)

:F1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 12, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.330 | | | 9 | 005 | |
| 0150 | 29.325 | | | | | |
| 0250 | 29.320 | | | | | |
| 0350 | 29.310 | | | 7 | 007 | |
| 0450 | 29.305 | | | | | |
| 0550 | 29.320 | | | | | |
| 0650 | 29.325 | | | 3 | 005 | |
| 0750 | 29.325 | | | | | |
| 0850 | 29.335 | | | | | |
| 0951 | 29.340 | | | 3 | 005 | |
| 1050 | 29.335 | | | | | |
| 1150 | 29.325 | | | | | |
| 1251 | 29.310 | | | 7 | 010 | |
| 1350 | 29.300 | | | | | |
| 1450 | 29.300 | | | | | |
| 1550 | 29.300 | | | 7 | 003 | |
| 1650 | 29.295 | | | | | |
| 1750 | 29.300 | | | | | |
| 1850 | 29.295 | | | 6 | 002 | |
| 1950 | 29.310 | | | | | |
| 2050 | 29.310 | | | | | |
| 2150 | 29.320 | | | 2 | 008 | |
| 2250 | 29.325 | | | | | |
| 2350 | 29.335 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [ FIRST ] Amt -22- | Type -23- | Hgt -24- | [ SECOND ] Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | [ THIRD ] Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | [ FOURTH ] Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | [ FIFTH ] Amt | Type | Hgt | 4th Sum | [ SIXTH ] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0050 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 5 |
| 0150 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 0250 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 0350 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 5 |
| 0450 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 0550 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 0650 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 5 |
| 0750 | 10 | 2 | AC | 130 | 10 | CS | 250 | 10 | | | | | | | | | | | | | | | | 4 |
| 0850 | 10 | 3 | AC | 130 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 7 |
| 0951 | 10 | 7 | AC | E130 | 3 | CS | 250 | 10 | | | | | | | | | | | | | | | | 9 |
| 1050 | 10 | 8 | AC | E130 | 2 | CS | 250 | 10 | | | | | | | | | | | | | | | | 10 |
| 1150 | 10 | 2 | AC | 130 | 8 | CS | E250 | 10 | | | | | | | | | | | | | | | | 9 |
| 1251 | 10 | 8 | CU | M30 | 2 | AC | 130 | 10 | | | | | | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1450 | 10 | 4 | CU | 37 | 6 | CS | E250 | 10 | | | | | | | | | | 9 |
| 1550 | 7 | 2 | CU | 37 | 5 | AC | E150 | 7 | | | | | | | | | | 6 |
| 1650 | 9 | 2 | H | 0 | 1 | CU | 30 | 3 | 5 | AC | E150 | 8 | 1 | CS | 250 | 9 | | 8 |
| 1750 | 10 | 2 | H | 0 | 5 | AC | M110 | 7 | 3 | CS | 250 | 10 | | | | | | 8 |
| 1850 | 10 | 2 | H | 0 | 8 | CS | E250 | 10 | | | | | | | | | | 6 |
| 1950 | 10 | 2 | H | 0 | 10 | CS | E250 | 10 | | | | | | | | | | 7 |
| 2050 | 10 | 2 | F | 0 | 10 | CS | E250 | 10 | | | | | | | | | | 8 |
| 2150 | 10 | 2 | F | 0 | 10 | CS | E250 | 10 | | | | | | | | | | 8 |
| 2250 | 10 | 2 | F | 0 | 10 | CS | E250 | 10 | | | | | | | | | | 8 |
| 2350 | 10 | 2 | F | 0 | 8 | CS | E250 | 10 | | | | | | | | | | 8 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp (F) - 47 - | Min. Temp (F) - 48 - | State of Grnd. - 50 - | Soil Temp (F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0349 | | 0.00 | 0.0 | | 65 | 63 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 68 | 63 | | | 29.325 | +0.005 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 64 | 60 | | | 29.320 | +0.005 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 81 | 63 | | | 29.310 | 0.000 |
| 1847 | 4 | 0.00 | 0.0 | 0 | 79 | 73 | | | 29.295 | 0.000 |
| Mid. | | 0.00 | 0.0 | 0 | 73 | 65 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unaltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | 60 | 0.20 | 0.0 | 0 | 12 | S | 1335 | 10 | 10 | | 0605 | 1842 | 338 | 45 | 9 | 16 | 1050 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F | 0635 | 1540 |
| H | 1540 | 2145 |
| F | 1945 | CONT |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0030/0630/1142/1530

LAKE TEMP 75 DEGREES//PK WND - LAST OCCURRENCE//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 13, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0050 -X 250 -OVC 4F 222/63/63/1904/020/F1/ 003 1007 81 (GES 05:54Z)

72524 31956 01904 10172 20172 39932 40222 50003 71022 80007 333 10272 20156 70000 555 91306= (GES05:56Z)

SA 0151 -X 250 -SCT 3F 219/64/64/0808/019/F2 (GES 06:52Z)
SP 0243 -X 250 SCT 2F 0308/019/F3 (GES 07:45Z)
SA 0251 -X 250 SCT 2F 219/64/64/2103/019/F3/ 98338 (GES 07:53Z)
SP 0306 -X M2 BKN 11/4F 1904/019/F4 (GES 08:08Z)
SP 0314 W1 X 1/4F 1906/019 (GES 08:16Z)
SA 0350 W1 X 1/9F 218/65/65/2005/019/ 603 (GES 08:50Z)
SA 0450 W1 X 1/16F 219/65/65/2004/019 (GES 09:51Z)
SA 0550 W1 X 1/16F 221/65/65/0000/019 (GES 10:51Z)
SA 0650 W1 X 1/16F 223/65/65/1904/020/ 303 63 (GES 11:51Z)

72524 31/01 91804 10183 20183 39932 40223 53003 74541 333 10272 20172 555 91312= (GES11:53Z)

SP 0727 W1 X 1/8F 2004/020/TWR VSBY 1/4 (HJW 12:38Z)
SP 0741 -X 3/16F 2204/020/F9 TWR VSBY 1/4 (HJW 12:42Z)
SP 0747 -X 1/4F 1904/020/F9 (HJW 12:47Z)
SA 0752 -X 1/4F 223/66/66/2105/020/F9 (HJW 12:53Z)
SP 0922 -X 1/2F 1904/020/F9 (HJW 13:23Z)
SP 0933 -X M2 BKN 3/4F 1904/020/F3 (HJW 13:34Z)
SP 0942 M2 BKN 1F 2204/021 (HJW 13:42Z)
RS 0950 -X M2 BKN 11/2F 226/68/68/2203/021/F2 (HJW 13:50Z)
SP 0931 5 SCT 3F 0000/020 (HJW 14:34Z)
SA 0952 10 SCT 5F 222/74/68/2903/020/ 000 1600 (HJW 14:53Z)
SA 1050 25 SCT 5H 216/78/68/1404/018 (HJW 15:50Z)
SA 1150 30 SCT 4H 211/79/68/1909/017 (HJW 16:50Z)
SA 1252 30 SCT 4H 209/79/68/1508/016/ 814 1100 63 (HJW 17:54Z)

72524 31556 31508 10261 20200 39919 40208 58014 70541 83100 333 10267 20172 555 44024 91318= (HJW18:03Z)

SA 1352 33 SCT 4H 201/79/67/1907/014 (HJW 18:52Z)
SA 1450 40 SCT 4H 194/78/67/2107/012 (HJW 19:50Z)
SA 1550 -X 33 SCT 4H 189/77/67/2008/010/H1/ 719 1200 (LH 20:50Z)
SA 1650 -X 37 SCT 4H 184/76/67/1707/009/H1 (LH 21:50Z)
SA 1750 -X 37 SCT 4H 180/76/67/2106/008/H1 (LH 22:50Z)
SA 1850 -X 250 SCT 4H 179/73/67/2004/007/H1/ 710 1001 80 (LH 23:50Z)

72524 31956 12004 10228 20194 39890 40179 57010 70500 80001 333 10267 20172 555 91400= (LH23:51Z)

SA 1950 -X 3FH 179/71/66/1904/007/FH2 (LH 00:50Z)
SA 2050 -X 3FH 179/70/67/1705/007/FH2 (LH 01:51Z)
SA 2150 -X 3F 176/70/66/1807/007/F2/ 002 (LH 02:51Z)
SA 2250 -X 3F 172/69/66/1906/005/F2 (LH 03:50Z)
SA 2350 -X 3F 167/68/66/1906/004/F2 (EES 04:50Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 13, 1990 To convert LST to UTC: 0

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.330 | | | 0 | 003 | |
| 0151 | 29.320 | | | | | |
| 0251 | 29.320 | | | | | |
| 0350 | 29.320 | | | 6 | 003 | |
| 0450 | 29.320 | | | | | |
| 0550 | 29.325 | | | | | |
| 0650 | 29.330 | | | 3 | 003 | |
| 0752 | 29.330 | | | | | |
| 0850 | 29.340 | | | | | |
| 0952 | 29.330 | | | 0 | 000 | |
| 1050 | 29.315 | | | | | |
| 1150 | 29.300 | | | | | |
| 1252 | 29.290 | | | 8 | 014 | |
| 1352 | 29.270 | | | | | |
| 1450 | 29.250 | | | | | |
| 1550 | 29.235 | | | 7 | 019 | |
| 1650 | 29.220 | | | | | |
| 1750 | 29.210 | | | | | |
| 1850 | 29.205 | | | 7 | 010 | |
| 1950 | 29.205 | | | | | |
| 2050 | 29.205 | | | | | |
| 2150 | 29.200 | | | 2 | 002 | |
| 2250 | 29.190 | | | | | |
| 2350 | 29.175 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time -16- | Tot. Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | 1st. Hgt -27- | Sum -28- | Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | Amt | Type | Hgt | 4th Sum | Amt | Type | Hgt | Tot. Opq. -36- |
| 0050 | 10 | 1 | F | 0 | 9 | CS | 250 | 10 | | | | | | | | | | | | | | | | 4 |
| 0151 | 5 | 2 | F | 0 | 3 | CS | 250 | 5 | | | | | | | | | | | | | | | | 2 |
| 0251 | 5 | 3 | F | 0 | 2 | CS | 250 | 5 | | | | | | | | | | | | | | | | 3 |
| 0350 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0650 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0752 | 9 | 9 | F | 0 | | | | | | | | | | | | | | | | | | | | 9 |
| 0850 | 8 | 2 | F | 0 | 6 | ST | M2 | 8 | | | | | | | | | | | | | | | | 8 |
| 0952 | 4 | 4 | ST | 10 | | | | | | | | | | | | | | | | | | | | 4 |
| 1050 | 3 | 3 | CU | 25 | | | | | | | | | | | | | | | | | | | | 3 |
| 1150 | 3 | 3 | CU | 30 | | | | | | | | | | | | | | | | | | | | 3 |
| 1252 | 4 | 4 | CU | 30 | | | | | | | | | | | | | | | | | | | | 4 |
| 1352 | 5 | 5 | CU | 33 | | | | | | | | | | | | | | | | | | | | 5 |
| 1450 | 5 | 5 | CU | 40 | | | | | | | | | | | | | | | | | | | | 5 |
| 1550 | 5 | 1 | H | 0 | 4 | CU | 33 | 5 | | | | | | | | | | | | | | | | 5 |
| 1650 | 3 | 1 | H | 0 | 2 | CU | 37 | 3 | | | | | | | | | | | | | | | | 3 |

| | | | | | |
|---|---|---|---|---|---|
| 1950 | 2 | 2 | F | 0 | 2 |
| 2050 | 2 | 2 | F | 0 | 2 |
| 2150 | 2 | 2 | F | 0 | 2 |
| 2250 | 2 | 2 | F | 0 | 2 |
| 2350 | 2 | 2 | F | 0 | 2 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barog. aph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to 0049 | | 0.00 | 0.0 | | 66 | 63 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 66 | 63 | | | 29.325 | +0.005 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 65 | 63 | | | 29.325 | +0.005 |
| 1250 | 3 | 0.00 | 0.0 | 0 | 80 | 63 | | | 29.285 | +0.005 |
| 1847 | 4 | 0.00 | 0.0 | 0 | 80 | 73 | | | 29.200 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 73 | 67 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 63 | 0.00 | 0.0 | 0 | 14 | S | 1623 | 5 | 5 | | 0636 | 1840 | 443 | 59 | 10 | 19 | 1150 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F+ | CONT | B(1945) 1005 |
| H | 1005 | 2054 |
| F | 1940 | CONT |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: FOGGY  Character of Sunset: HAZY

Time Check: 0030/0640/1554/

LAKE TEMP 75 DEGREES//PK WND - LAST OCCURRENCE//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 14, 1990  To convert LST to UTC:

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0051 -X 3F 158/69/67/1908/001/F2/ 717 80 (EES 05:54Z)

72524 31948 01909 10206 20194 39971 40153 57017 71000 333 10267 20172 70000 555 91406= (EES05:55Z)

SA 0150 -X 3F 155/68/67/2007/000/F2 (EES 06:50Z)
SA 0250 -X 3F 150/69/67/2007/999/F2/ 98443 (EES 07:51Z)
SA 0351 -X 3F 143/67/66/1906/997/F2/ 715 (EES 08:52Z)
SA 0450 -X 3F 140/67/66/2108/996/F3 (EES 09:50Z)
SA 0550 -X 85 SCT M100 OVC 3F 136/68/67/2010/995/F3 (EES 10:51Z)
SP 0608 -X M6 BKN 95 OVC 2F 2010/994/F2 (EES 11:10Z)
SA 0651 -X M6 OVC 2RWF 131/69/68/2011/993/F4 RB39/ 71200 17// 67 (EES 11:53Z)

72524 11332 02011 10206 20200 39944 40131 57012 69901 78111 887// 333 10267 20194 90910 555 91412= (EES11:54Z)

SP 0723 -X M7 OVC 2F 2009/991/F4 (HJW 12:24Z)
SP 0739 -X M9 BKN 42 OVC 2F 1913/991/F2 (HJW 12:40Z)
SA 0751 -X M9 BKN 42 OVC 2F 123/70/69/2011/991/F2 RE01 (HJW 12:52Z)
RS 0850 -X M12 OVC 2F 118/71/69/2013/989/F2 (HJW 13:51Z)
SP 0923 12 SCT M30 BKN 100 BKN 2F 2013/987 (HJW 14:25Z)
SA 0950 12 SCT 30 SCT E130 OVC 2F 100/73/69/2013620/984/THN SPTS IOVC/ 83013 157/ (HJW 14:53Z)
SP 1012 20 SCT E130 BKN 3H 2015623/983 (HJW 15:13Z)
SA 1053 20 SCT E130 BKN 3H 086/75/69/2020627/980 (HJW 15:55Z)
SP 1110 M20 BKN 130 OVC 3H 2019625/979 (HJW 16:11Z)
SA 1154 M20 OVC 3H 068/77/69/2019/975/BINOVC (HJW 16:56Z)
RS 1251 26 SCT M46 BKN 250 BKN 3H 063/77/69/2017629/973/ 83613 1800 67 (HJW 17:52Z)

72524 11548 72017 10250 20206 39778 40063 50036 60031 70582 66000 333 10250 20194 70033 90960 555 44024 91410= (HJW17:56Z)

SA 1350 25 SCT 46 SCT 250 -BKN 4H 051/77/69/2117625/970 (HJW 18:51Z)
SA 1451 M30 BKN 42 OVC 3H 033/77/69/2013/965/RB30E43 (HJW 19:52Z)
SA 1550 31 SCT M40 BKN 75 OVC 4H 022/75/68/1916/961/DRK W-N/ 74102 157/ (LH 20:50Z)
SP 1614 17 SCT M30 OVC 1/2TRW-H 2425632/970/TB12 OVHD MOVG E OCNL LTGICCCCG PK WND 2436/10 (LH 21:15Z)
SP 1624 E17 OVC 1/2TRW+FH 2312/965/T OVHD MOVG E FQT LTGICCCCG (LH 21:25Z)
SP 1630 17 SCT E30 OVC 11/2TRWF 2216/966/T E MOVG E OCNL LTGICCCCG (LH 21:31Z)
SA 1651 17 SCT 23 SCT E75 OVC 3TRW-F 030/63/61/2212/963/RB00 TB12 E MOVG E OCNL LTGICCCCG PK WND 2436/10 PCPN 57 (LH 21:51Z)
RS COR 1651 17 SCT 23 SCT E75 OVC 3TRW-F 030/63/61/2212/963/RB00 TB12 E MOVG E OCNL LTGICCCCG PK WND 2436/10 PCPN 57 (LH 21:56Z)
SP 1726 10 SCT 38 SCT E50 BKN 90 OVC 10 2108/962/TE24 MOVD E CBMAM OVHD MOVD NE (LH 22:28Z)
SA 1750 M30 OVC 10 020/63/62/2009/963/FEW CUFRA TE24 MOVD E RE10 (LH 22:50Z)
SP 1756 M25 OVC 10 2108/963 (LH 22:56Z)
SA 1850 10 SCT M25 BKN 40 OVC 10 032/64/62/2406/964/BINOVC/ 00863 15// 77 (LH 23:51Z)

72524 11466 72406 10170 20167 39746 40032 50000 60161 70290 87500 333 10250 20167 70193 90921 555 91500= (LH23:52Z)

SP 1926 30 SCT M80 BKN 10 2008/965 (LH 00:27Z)
SA 1950 30 SCT 80 SCT 10 030/65/63/2707/966/RB14E20 (LH 00:50Z)
SA 2050 25 SCT M55 BKN 20 045/65/62/2008/967 (LH 01:50Z)
SA 2150 29 SCT M45 BKN 70 OVC 15RW- 052/65/61/2007/969/BINOVC RB40/ 22000 157/ (LH 02:50Z)
SA 2250 20 SCT M40 BKN 80 OVC 20 057/63/61/2307/971/BINOVC RE0251 (LH 03:50Z)
SP 2312 M5 OVC 11/2RWF 2608/972 (EES 04:13Z)
SP 2329 5 SCT M23 OVC 20 2606/972 (EES 04:31Z)
SA 2350 5 SCT M24 OVC 20 060/63/61/2606/972/BINOVC RE0356E22 (EES 04:51Z

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 14, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 29.150 | | | 7 | 017 | |
| 0150 | 29.140 | | | | | |
| 0250 | 29.125 | | | | | |
| 0351 | 29.105 | | | 7 | 015 | |
| 0450 | 29.095 | | | | | |
| 0550 | 29.085 | | | | | |
| 0651 | 29.070 | | | 7 | 012 | 0.13 |
| 0751 | 29.045 | | | | | T |
| 0850 | 29.030 | | | | | |
| 0950 | 28.980 | | | 8 | 030 | |
| 1053 | 28.9[illegible]0 | | | | | |
| 1154 | 28.890 | | | | | |
| 1251 | 28.875 | | | 8 | 036 | |
| 1350 | 28.840 | | | | | |
| 1451 | 28.790 | | | | | 0.02 |
| 1550 | 28.755 | 75.0 | 70.4 | 7 | 041 | |
| 1651 | 28.775 | 63.0 | 62.0 | | | 0.59 |
| 1750 | 28.770 | | | | | 0.02 |
| 1850 | 28.790 | | | 0 | 000 | |
| 1950 | 28.800 | | | | | T |
| 2050 | 28.820 | | | | | |
| 2150 | 28.840 | | | 2 | 020 | T |
| 2250 | 28.855 | | | | | T |
| 2350 | 28.865 | | | | | 0.10 |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [ FIRST ] Amt -22- | Type -23- | Hgt -24- | [ SECOND ] Amt -25- | Type -26- | 1st. Hgt Sum -27--28- | [ THIRD ] Amt -29- | Type -30- | 2nd. Hgt Sum -31--32- | [ FOURTH ] Amt -33- | Type -34- | 3rd. Hgt Sum -35- | [ FIFTH ] Amt | Type | 4th Hgt Sum | [ SIXTH ] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0051 | 2 | 2 | F | 0 | | | | | | | | | | | | | | | | 2 |
| 0150 | 2 | 2 | F | 0 | | | | | | | | | | | | | | | | 2 |
| 0250 | 2 | 2 | F | 0 | | | | | | | | | | | | | | | | 2 |
| 0351 | 2 | 2 | F | 0 | | | | | | | | | | | | | | | | 2 |
| 0450 | 3 | 3 | F | 0 | | | | | | | | | | | | | | | | 3 |
| 0550 | 10 | 3 | F | 0 | 2 | AC | 85 | 5 | 5 | AC | M100 | 10 | | | | | | | | 10 |
| 0651 | 10 | 4 | F | 0 | 6 | CUFRA | M6 | 10 | | | | | | | | | | | | 10 |
| 0751 | 10 | 2 | F | 0 | 5 | ST | M9 | 7 | 3 | SC | 42 | 10 | | | | | | | | 10 |
| 0850 | 10 | 2 | F | 0 | 10 | ST | M12 | 10 | | | | | | | | | | | | 10 |
| 0950 | 10 | 3 | ST | 12 | 3 | SC | 30 | 4 | 10 | AC | E130 | 10 | | | | | | | | 10 |
| 1053 | 8 | 5 | SC | 20 | 3 | AC | E130 | 8 | | | | | | | | | | | | 8 |
| 1154 | 10 | 10 | SC | M20 | | | | | | | | | | | | | | | | 10 |
| 1251 | 9 | 3 | CU | 26 | 5 | SC | M46 | 8 | 2 | CS | 250 | 9 | | | | | | | | 8 |
| 1350 | 8 | 1 | CU | 25 | 3 | SC | 46 | 4 | 4 | CS | 250 | 8 | | | | | | | | 3 |
| 1451 | 10 | 6 | CU | M30 | 4 | SC | 42 | 10 | | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1850 | 10 | 4 | SC | 18 | 4 | SC | n25 | 8 | 2 | SC | 40 | 10 | | | 10 |
| 1950 | 3 | 1 | SC | 30 | 2 | AC | 80 | 3 | | | | | | | 3 |
| 2050 | 9 | 5 | SC | 25 | 4 | SC | M55 | 9 | | | | | | | 9 |
| 2150 | 10 | 5 | SC | 29 | 4 | SC | M45 | 9 | 1 | AC | 70 | 10 | | | 10 |
| 2250 | 10 | 5 | SC | 20 | 4 | SC | M40 | 9 | 1 | AC | 80 | 10 | | | 10 |
| 2350 | 10 | 1 | CUFRA | 5 | 9 | SC | M24 | 10 | | | | | | | 10 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0050 | | 0.00 | 0.0 | | 69 | 68 | | | | |
| 0050 | 1 | 0.00 | 0.0 | 0 | 73 | 67 | | | 29.145 | +0.005 |
| 0650 | 2 | T | 0.0 | 0 | 69 | 67 | | | 29.060 | +0.010 |
| 1248 | 3 | 0.13 | 0.0 | 0 | 77 | 68 | | | 28.880 | -0.005 |
| 1E45 | 4 | 0.63 | 0.0 | 0 | 77 | 62 | | | 28.765 | +0.015 |
| Mid. | | 0.18 | 0.0 | 0 | 66 | 62 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | 62 | 0.94 | 0.0 | 0 | 36 | SW | 1610 | 10 | 8 | | 0607 | 1839 | 217 | 29 | 29 | 24 | 1614 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F | CONT B | (1940) 1006 |
| RW- | 0639 | 0647 |
| RW | 0647 | 0657 |
| RW- | 0657 | 0701 |
| H | 1005 | 1628 |
| RW- | 1430 | 1443 |
| RW- | 1608 | 1615 |
| T | 1612 | 1724 |
| RW+ | 1615 | 1627 |
| F | 1616 | 1723 |
| RW | 1627 | 1648 |
| RW- | 1648 | 1710 |
| RW- | 1914 | 1920 |
| RW- | 2140 | 2151 |
| RW- | 2256 | 2302 |
| RW | 2302 | 2313 |
| F | 2307 | 2326 |
| RW- | 2313 | 2322 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: FOGGY  Character of Sunset: CLOUDY

Time Check: 0159/1555/1933/

LAKE TEMP 75 DEGREES//H083 OTS 1457-1745//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 15, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SP 0040 20 SCT M34 OVC 20 3312/973/BINOVC (EES 05:43Z)
SA 0051 17 SCT M36 OVC 20 064/63/58/3211/973/BINOVC/ 21218 15// 77 (EES 05:55Z)

72524 11480 83211 10172 20144 39778 40064 52012 60051 70288 885// 333 10250 20167 70239 90925 555 91506= (EES05:56Z)

SA COR 0051 17 SCT M36 OVC 20 064/63/58/3211/973/ 21218 15// 77 (EES)

72524 11480 83211 10172 20144 39778 40064 52012 60051 70288 885// 333 10250 20167 70239 90925 555 91506= (COR) (EES)

SA 0150 17 SCT M32 OVC 20 069/62/58/3209/974 (EES 06:51Z)
SP 0233 M14 OVC 20 3211/976 (EES 07:34Z)
SA 0250 M14 OVC 20 073/61/56/3109/976/ 98217 (EES 07:51Z)
SP 0339 14 SCT M20 BKN 20 3111/978 (EES 08:41Z)
SA 0351 14 SCT M26 BKN 20 084/59/53/3109/979/ 219 1500 (EES 08:52Z)
SA 0450 M27 BKN 20 089/59/51/3109/980 (EES 09:51Z)
SA 0550 M24 BKN 20 094/59/51/3209/981 (EES 10:51Z)
SA 0651 M29 OVC 20 098/58/51/3010/982/ 212 15// 58 20094 (EES 11:52Z)

72524 32580 83010 10144 20106 39809 40098 52012 885// 333 10250 20144 70239 555 91512= (EES11:57Z)

SA 0753 M29 OVC 20 103/57/49/2808/984 (HJW 12:53Z)
SA 0850 M22 OVC 20 106/57/50/1207/985 (HJW 13:51Z)
SA COR 0850 M22 OVC 20 106/57/50/3107/985 (HJW 14:20Z)
SA 0952 M20 OVC 20 112/57/50/3807/987/ 214 15// (HJW 14:53Z)
SA 1050 M20 OVC 20 110/57/50/3006/986 (HJW 15:51Z)
SP 1102 M26 OVC 20 3107/986 (HJW 16:03Z)
SA 1150 M25 OVC 20 108/59/49/2907G15/985 (HJW 16:51Z)
SA 1251 M24 OVC 20 110/58/50/2706/986/ 502 15// 56 (HJW 17:53Z)

72524 32580 82706 10144 20100 39821 40110 55002 885// 333 10172 20133 70206 555 44024 91518= (HJW17:54Z)

SA 1350 M24 OVC 20 110/58/49/2506/986/WND 23V31 (HJW 18:53Z)
SA 1450 M24 OVC 20 108/59/50/2506/986 (HJW 19:51Z)
SP 1514 26 SCT M35 OVC 20 2506/986 (LH 20:15Z)
SA 1550 M34 OVC 20 109/59/50/2406/986/ 602 15// (LH 20:50Z)
SA 1650 M33 OVC 20 109/60/51/2506/985/BINOVC SW-W (LH 21:50Z)
SA 1750 26 SCT M35 OVC 20 109/60/52/2804/985/BINOVC (LH 22:50Z)
SP 1820 M26 BKN 35 OVC 20 2603/985 (LH 23:21Z)
SA 1850 M28 BKN 50 OVC 20 107/60/53/2803/985/ 602 15// 60 (LH 23:50Z)

72524 32580 82803 10156 20117 39817 40107 56002 885// 333 10156 20133 70046 555 91600= (LH23:50Z)

SP 1944 28 SCT M50 OVC 20 3604/985 (LH 00:44Z)
SA 1950 28 SCT M50 OVC 20 105/60/52/0104/985 (LH 00:50Z)
SA 2050 M55 OVC 20 104/58/53/0000/984/BINOVC (LH 01:50Z)
SA 2150 M60 BKN 20 101/56/53/2104/983/ 707 1500 (LH 02:50Z)
SA 2250 60 SCT 20 097/55/53/1704/982 (LH 03:51Z)
SA 2350 60 SCT 20 094/53/52/2004/981 (EES 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 15, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 28.875 | | | 2 | 012 | |
| 0150 | 28.890 | | | | | |
| 0250 | 28.900 | | | | | |
| 0351 | 28.930 | | | 2 | 019 | |
| 0450 | 28.940 | | | | | |
| 0550 | 28.955 | | | | | |
| 0651 | 28.965 | | | 2 | 012 | |
| 0753 | 28.980 | | | | | |
| 0850 | 28.990 | | | | | |
| 0952 | 29.005 | | | 2 | 014 | |
| 1050 | 29.000 | | | | | |
| 1150 | 28.995 | | | | | |
| 1251 | 29.000 | | | 5 | 002 | |
| 1350 | 29.000 | | | | | |
| 1450 | 28.995 | | | | | |
| 1550 | 28.995 | | | 6 | 002 | |
| 1650 | 28.995 | | | | | |
| 1750 | 28.995 | | | | | |
| 1850 | 28.990 | | | 6 | 002 | |
| 1950 | 28.985 | | | | | |
| 2050 | 28.980 | | | | | |
| 2150 | 28.970 | | | 7 | 007 | |
| 2250 | 28.960 | | | | | |
| 2350 | 28.950 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [ FIRST ] Amt -22- | Type -23- | Hgt -24- | [ SECOND ] Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | [ THIRD ] Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | [ FOURTH ] Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | [ FIFTH ] Amt | Type | Hgt | 4th Sum | [ SIXTH ] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0051 | 10 | 1 | SC | 17 | 9 | SC | M36 | 10 | | | | | | | | | | | | | | | | 10 |
| 0150 | 10 | 3 | SC | 17 | 7 | SC | M32 | 10 | | | | | | | | | | | | | | | | 10 |
| 0250 | 10 | 10 | SC | M14 | | | | | | | | | | | | | | | | | | | | 10 |
| 0351 | 8 | 2 | SC | 14 | 6 | SC | M26 | 8 | | | | | | | | | | | | | | | | 8 |
| 0450 | 9 | 9 | SC | M27 | | | | | | | | | | | | | | | | | | | | 9 |
| 0550 | 9 | 9 | SC | M24 | | | | | | | | | | | | | | | | | | | | 9 |
| 0651 | 10 | 10 | SC | M29 | | | | | | | | | | | | | | | | | | | | 10 |
| 0753 | 10 | 10 | SC | M29 | | | | | | | | | | | | | | | | | | | | 10 |
| 0850 | 10 | 10 | SC | M22 | | | | | | | | | | | | | | | | | | | | 10 |
| 0952 | 10 | 10 | SC | M20 | | | | | | | | | | | | | | | | | | | | 10 |
| 1050 | 10 | 10 | SC | M20 | | | | | | | | | | | | | | | | | | | | 10 |
| 1150 | 10 | 10 | SC | M25 | | | | | | | | | | | | | | | | | | | | 10 |
| 1251 | 10 | 10 | SC | M24 | | | | | | | | | | | | | | | | | | | | 10 |
| 1350 | 10 | 10 | SC | M24 | | | | | | | | | | | | | | | | | | | | 10 |
| 1450 | 10 | 10 | SC | M24 | | | | | | | | | | | | | | | | | | | | 10 |
| 1550 | 10 | 10 | SC | M34 | | | | | | | | | | | | | | | | | | | | 10 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1750 | 10 | 5 | SC | M25 | 5 | SC | M55 | 10 | | 10 |
| 1850 | 10 | 9 | SC | M28 | 1 | SC | 50 | 10 | | 10 |
| 1950 | 10 | 3 | SC | 28 | 7 | SC | M50 | 10 | | 10 |
| 2050 | 10 | 10 | SC | M55 | | | | | | 10 |
| 2150 | 7 | 7 | SC | M60 | | | | | | 7 |
| 2250 | 3 | 3 | SC | 60 | | | | | | 3 |
| 2350 | 3 | 3 | SC | 60 | | | | | | 3 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp (F) - 47 - | Min. Temp (F) - 48 - | State of Grnd. - 50 - | Soil Temp (F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0050 | | 0.00 | 0.0 | | 64 | 63 | | | | |
| 0250 | 1 | 0.10 | 0.2 | 0 | 66 | 62 | | | 28.865 | +0.010 |
| 0650 | 2 | 0.00 | 0.0 | 0 | 63 | 58 | | | 28.955 | +0.010 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 59 | 56 | | | 28.995 | +0.005 |
| 1946 | 4 | 0.00 | 0.0 | 0 | 60 | 58 | | | 28.965 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 60 | 52 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | 52 | 0.00 | 0.0 | 0 | 22 | NW | 0024 | 10 | 9 | | 0608 | 1837 | 1 | 0 | 14 | 33 | 0040 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|

<<<< None Logged >>>>

98. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0207/0939/1545/

LAKE TEMP 75 DEGREES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations Date: SEP 16, 1990 To convert LST to UTC:

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0051 42 SCT E130 OVC 20 084/54/53/1707/978/ 717 155/ 63 (EES 05:53Z)

72524 32620 01707 10122 20117 39793 40084 57017 8255/ 333 10172 20111 70000 555 91606= (EES05:55Z)

SA 0150 48 SCT M75 OVC 20 082/55/53/1504/977 (EES 06:50Z)
SA 0250 60 SCT M75 BKN 20 073/55/52/1806/975/ 98001 (EES 07:52Z)
SA 0351 M75 OVC 15 069/55/53/1906/973/ 014 107/ (EES 08:52Z)
SA 0450 M80 BKN 95 OVC 15 066/55/53/2006/973 (EES 09:50Z)
SA 0550 M40 OVC 7RW- 069/56/54/2406/974/RB33 (EES 10:50Z)
SP 0612 M10 OVC 5RW-F 2905/975/CIG RGD (EES 11:14Z)
SP 0635 M10 BKN 60 OVC 21/2RW-F 2305/975/CIG RGD (EES 11:36Z)
SA 0651 M13 BKN 70 OVC 21/2RW-F 076/56/55/2406/975/CIG RGD/ 20704 177/ 52 20004 (EES 11:55Z)

72524 11440 02406 10133 20120 39787 40076 52007 60011 78002 8677/ 333 10170 20111 70010 90921 555 91612= (EES11:55Z)

SP 0700 13 SCT M70 OVC 4RW-F 2207/975 (HJW 12:01Z)
SA 0750 20 SCT M70 BKN 250 BKN 10 073/55/54/2305/975/RE20 (HJW 12:52Z)
SA 0850 30 SCT M95 BKN 250 BKN 20 072/59/53/2405/975/TCU W-N (HJW 13:51Z)
SP 0944 M14 BKN 26 OVC 1TRW 2808616/977/TB43 OVHD MOVG SE OCNL LTGIC (HJW 14:45Z)
RS 0953 M14 BKN 33 OVC 3TRW 082/56/54/3610616/977/TB43 OVHD MOVG SE OCNL LTGIC WSHFT 50/ 30524 13// (HJW 14:56Z)
SP 1011 M13 BKN 40 OVC 10 0311617/978/TE10 MOVD SE (HJW 15:12Z)
SA 1053 M13 BKN 40 OVC 10RW- 091/56/53/0315/980/TE10 MOVD SE RE06B30 (HJW 15:54Z)
SP 1139 M20 BKN 46 OVC 10RW- 0110620/981 (HJW 16:41Z)
SA 1152 M20 BKN 46 OVC 7RW- 096/57/53/0311610/982 (HJW 16:53Z)
SP 1237 M22 BKN 46 OVC 2RW-F 0509/983 (HJW 17:38Z)
SP 1240 M22 BKN 46 OVC 3RW-F 0209615/983 (HJW 17:42Z)
SA 1251 M23 BKN 46 OVC 3RW-F 105/56/53/0207/984/ 22235 15// 52 (HJW 17:53Z)

72524 11548 00207 10133 20117 39814 40105 52022 60091 78098 885// 333 10161 20111 70099 90976 555 44024 91618= (HJW17:56Z)

SP 1344 M30 BKN 43 OVC 7RW- 0110618/966/PCPN VRY LGT (HJW 18:45Z)
SA 1350 M30 BKN 43 OVC 10RW- 110/56/52/3610/986 (HJW 18:51Z)
SP 1411 M22 BKN 30 OVC 10RW- 3509/987 (HJW 19:12Z)
SP 1438 22 SCT M33 BKN 46 OVC 20 0111/987/BINOVC (HJW 19:39Z)
SA 1452 22 SCT M30 BKN 46 OVC 20 110/57/48/0312619/988/BINOVC RE30 (HJW 19:53Z)
SA 1550 M30 BKN 48 OVC 20 129/57/46/3511/991/ 22417 15// (GES 20:54Z)
SA 1650 30 SCT M49 BKN 20 141/58/42/0313/995 (GES 21:52Z)
SA 1750 44 SCT M60 BKN 20 146/58/43/0308/996 (GES 22:54Z)
SA 1850 45 SCT M60 BKN 20 155/56/44/3409/999/ 22517 1500 61 (GES 23:52Z)

72524 11680 53409 10133 20067 39863 40155 52025 60041 70182 85500 333 10161 20122 70142 90941 555 91700= (GES23:57Z)

SA 1952 38 SCT 20 167/56/43/3512619/002 (GES 00:53Z)
SA 2050 37 SCT 48 SCT 20 176/55/42/3510/005 (GES 01:51Z)
SA 2152 M42 BKN 20 185/54/41/3611/007/ 229 1500 (GES 02:53Z)
SA 2250 37 SCT 20 193/54/40/3609/009 (GES 03:51Z)
SA 2350 M37 BKN 20 194/53/41/3508/010 (EES 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 16, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 28.920 | | | 7 | 017 | |
| 0150 | 28.915 | | | | | |
| 0250 | 28.890 | | | | | |
| 0351 | 28.880 | | | 8 | 014 | |
| 0450 | 28.870 | | | | | |
| 0550 | 28.880 | | | | | T |
| 0651 | 28.900 | | | 2 | 007 | 0.04 |
| 0750 | 28.890 | | | | | 0.02 |
| 0850 | 28.890 | | | | | |
| 0953 | 28.915 | | | 3 | 005 | 0.22 |
| 1053 | 28.940 | | | | | 0.02 |
| 1152 | 28.955 | | | | | 0.02 |
| 1251 | 28.980 | | | 2 | 022 | 0.07 |
| 1350 | 28.995 | | | | | 0.17 |
| 1452 | 29.020 | | | | | T |
| 1550 | 29.050 | | | 2 | 024 | |
| 1650 | 29.085 | | | | | |
| 1750 | 29.100 | | | | | |
| 1850 | 29.125 | | | 2 | 025 | |
| 1952 | 29.160 | | | | | |
| 2050 | 29.185 | | | | | |
| 2152 | 29.210 | | | 2 | 029 | |
| 2250 | 29.225 | | | | | |
| 2350 | 29.235 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time -16- | Tot. Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | 1st. Hgt -27- | 1st. Sum -28- | Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | Amt | Type | Hgt | 4th Sum | Amt | Type | Hgt | Tot. Opq. -36- |
| 0051 | 10 | 2 | SC | 42 | 10 | AC | E130 | 10 | | | | | | | | | | | | | | | | 10 |
| 0150 | 10 | 3 | SC | 48 | 7 | AC | M75 | 10 | | | | | | | | | | | | | | | | 10 |
| 0250 | 6 | 1 | SC | 60 | 5 | AC | M75 | 6 | | | | | | | | | | | | | | | | 6 |
| 0351 | 10 | 10 | AC | M75 | | | | | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 8 | AC | M86 | 2 | AC | 95 | 10 | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 10 | SC | M40 | | | | | | | | | | | | | | | | | | | | 10 |
| 0651 | 10 | 7 | CUFRA | M13 | 3 | AC | 70 | 10 | | | | | | | | | | | | | | | | 10 |
| 0750 | 9 | 4 | SC | 20 | 4 | AC | M70 | 8 | 1 | CS | 250 | 9 | | | | | | | | | | | | 8 |
| 0850 | 8 | 3 | CU | 30 | 4 | AC | M95 | 7 | 1 | CS | 250 | 8 | | | | | | | | | | | | 7 |
| 0953 | 10 | 6 | SC | M14 | 4 | CB | 33 | 10 | | | | | | | | | | | | | | | | 10 |
| 1053 | 10 | 7 | SC | M13 | 3 | SC | 40 | 10 | | | | | | | | | | | | | | | | 10 |
| 1152 | 10 | 7 | SC | M20 | 3 | SC | 46 | 10 | | | | | | | | | | | | | | | | 10 |
| 1251 | 10 | 7 | SC | M23 | 3 | SC | 46 | 10 | | | | | | | | | | | | | | | | 10 |
| 1350 | 10 | 6 | SC | M30 | 4 | SC | 43 | 10 | | | | | | | | | | | | | | | | 10 |
| 1452 | 10 | 2 | SC | 22 | 4 | SC | M30 | 6 | 4 | SC | 46 | 10 | | | | | | | | | | | | 10 |
| 1550 | 10 | 6 | SC | M30 | 4 | SC | 48 | 10 | | | | | | | | | | | | | | | | 10 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1850 | 6 | 2 | SC | 45 | 4 | SC | M60 | 6 | | 6 |
| 1952 | 5 | 5 | SC | 38 | | | | | | 5 |
| 2050 | 4 | 2 | SC | 37 | 2 | SC | 48 | 4 | | 4 |
| 2152 | 6 | 6 | SC | M42 | | | | | | 6 |
| 2250 | 4 | 4 | SC | 37 | | | | | | 4 |
| 2350 | 6 | 6 | SC | M37 | | | | | | 6 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0248 | | 0.00 | 0.0 | | 54 | 53 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 60 | 52 | | | 28.920 | 0.000 |
| 0548 | 2 | 0.04 | 0.0 | 0 | 56 | 54 | | | 28.890 | +0.010 |
| 1248 | 3 | 0.35 | 0.0 | 0 | 61 | 55 | | | 28.970 | +0.010 |
| 1349 | 4 | 0.17 | 0.0 | 0 | 59 | 55 | | | 29.120 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 56 | 53 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | 53 | 2.56 | 0.0 | 0 | 24 | N | 1115 | 9 | 8 | | 0639 | 1835 | 106 | 14 | 17 | 3 | 1353 |

Weather & Obstruction to Vision

| Type -82- | Began -83- | end -84- |
|---|---|---|
| RW- | 0533 | 0720 |
| F | 0608 | 0740 |
| RW | 0932 | 1000 |
| T | 0943 | 1010 |
| RW- | 1000 | 1006 |
| RW- | 1030 | 1214 |
| RW | 1214 | 1216 |
| RW- | 1216 | 1300 |
| F | 1237 | 1320 |
| RW | 1300 | 1320 |
| RW- | 1320 | 1430 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0406/1210/1840/

LAKE TEMP 75 DEGREES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 17, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0051 M37 BKN 20 197/53/40/3609/011/ 212 1500 61 (EES 05:53Z)

72524 32680 53609 10117 20044 39903 40197 52012 85500 333 10161 20117 70142 555 91706= (EES05:54Z)

SA 0150 M40 BKN 20 201/53/40/3607/012 (EES 06:51Z)
SA 0250 M37 BKN 20 204/53/40/3507/013/ 98106 (EES 07:50Z)
SA 0351 M38 BKN 20 209/53/40/3504/015/ 212 1500 (EES 08:51Z)
SA 0450 M40 BKN 20 218/51/39/3505/017 (EES 09:50Z)
SA 0550 M41 BKN 20 227/52/39/3405/020 (EES 10:50Z)
SA 0651 M38 BKN 20 235/54/40/3406/022/ 225 1500 51 20052 (EES 11:54Z)

72524 32680 63406 10122 20044 39941 40235 52025 86500 333 10161 20106 70132 555 91712= (EES11:59Z)

SA 0750 40 SCT M55 BKN 20 244/55/40/3206/025 (GES 12:52Z)
SA 0852 37 SCT 20 253/56/41/3508/028 (GES 13:53Z)
SA 0951 40 SCT 20 258/58/40/0312/029/ 222 1500 (GES 14:52Z)
SA 1051 41 SCT 20 267/58/39/3511618/031 (GES 15:52Z)
SA 1150 43 SCT 20 268/58/38/3412/032 (GES 16:50Z)
SA 1250 44 SCT 20 272/57/36/3411/033/ 214 1500 51 (GES 17:52Z)

72524 32680 33411 10139 20022 39976 40272 52014 83500 333 10156 20106 70043 555 44823 91718= (GES17:53Z)

SA 1352 44 SCT 20 268/59/38/3509/032 (GES 18:53Z)
SA 1452 45 SCT 20 269/57/38/3309/032 (GES 19:54Z)
SA 1550 45 SCT 20 270/59/35/3610/033/ 502 1500 (HJW 20:50Z)
SA 1651 45 SCT 20 272/58/36/3309/033 (HJW 21:52Z)
SA 1752 45 SCT 20 274/56/38/3106/034 (HJW 22:53Z)
SA 1850 45 SCT 20 273/53/38/3505/033/ 002 1500 60 (HJW 23:50Z)

72524 32680 23505 10117 20033 39976 40273 50002 82500 333 10156 20106 555 91800= (HJW23:54Z)

SA 1953 45 SCT 20 280/50/41/2903/035 (HJW 00:54Z)
SA 2050 CLR 20 284/47/42/2203/036/FEW SC N-E (HJW 01:50Z)
SA 2153 40 SCT 20 280/46/43/2303/035/ 007 1500 (HJW 02:53Z)
SA 2250 M40 BKN 20 285/45/43/2105/037 (HJW 03:50Z)
SA 2350 M40 BKN 20 285/45/43/2103/037 (EES 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 17, 1990 To convert LST to UTC: 0

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 29.245 | | | 2 | 012 | |
| 0150 | 29.255 | | | | | |
| 0250 | 29.265 | | | | | |
| 0351 | 29.280 | | | 2 | 012 | |
| 0450 | 29.305 | | | | | |
| 0550 | 29.330 | | | | | |
| 0651 | 29.355 | | | 2 | 025 | |
| 0750 | 29.380 | | | | | |
| 0852 | 29.405 | | | | | |
| 0951 | 29.420 | | | 2 | 022 | |
| 1051 | 29.445 | | | | | |
| 1150 | 29.450 | | | | | |
| 1250 | 29.460 | | | 2 | 014 | |
| 1352 | 29.450 | | | | | |
| 1452 | 29.450 | | | | | |
| 1550 | 29.455 | | | 5 | 002 | |
| 1651 | 29.460 | | | | | |
| 1752 | 29.465 | | | | | |
| 1850 | 29.460 | | | 0 | 002 | |
| 1953 | 29.480 | | | | | |
| 2050 | 29.490 | | | | | |
| 2153 | 29.480 | | | 0 | 007 | |
| 2250 | 29.495 | | | | | |
| 2350 | 29.495 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time -16- | Tot. Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | Amt | Type | Hgt | 4th Sum | Amt | Type | Hgt | Tot. Opq. -36- |
| 0051 | 6 | 6 | SC | M37 | | | | | | | | | | | | | | | | | | | | 6 |
| 0150 | 6 | 6 | SC | M40 | | | | | | | | | | | | | | | | | | | | 6 |
| 0250 | 6 | 6 | SC | M37 | | | | | | | | | | | | | | | | | | | | 6 |
| 0351 | 7 | 7 | SC | M38 | | | | | | | | | | | | | | | | | | | | 7 |
| 0450 | 7 | 7 | SC | M40 | | | | | | | | | | | | | | | | | | | | 7 |
| 0550 | 6 | 6 | SC | M41 | | | | | | | | | | | | | | | | | | | | 6 |
| 0651 | 7 | 7 | SC | M38 | | | | | | | | | | | | | | | | | | | | 7 |
| 0750 | 6 | 3 | SC | 40 | 3 | SC | M55 | 6 | | | | | | | | | | | | | | | | 6 |
| 0852 | 5 | 5 | SC | 37 | | | | | | | | | | | | | | | | | | | | 5 |
| 0951 | 4 | 4 | SC | 40 | | | | | | | | | | | | | | | | | | | | 4 |
| 1051 | 5 | 5 | SC | 41 | | | | | | | | | | | | | | | | | | | | 5 |
| 1150 | 4 | 4 | SC | 43 | | | | | | | | | | | | | | | | | | | | 4 |
| 1250 | 4 | 4 | SC | 44 | | | | | | | | | | | | | | | | | | | | 4 |
| 1352 | 4 | 4 | SC | 44 | | | | | | | | | | | | | | | | | | | | 4 |
| 1452 | 3 | 3 | SC | 45 | | | | | | | | | | | | | | | | | | | | 3 |
| 1550 | 3 | 3 | SC | 45 | | | | | | | | | | | | | | | | | | | | 3 |
| [illegible] | 3 | 3 | SC | 45 | | | | | | | | | | | | | | | | | | | | 3 |

| | | | | | |
|---|---|---|---|---|---|
| 1850 | 3 | 3 | SC | 45 | 3 |
| 1953 | 1 | 1 | SC | 45 | 1 |
| 2050 | 0 | 0 | SC | 45 | 0 |
| 2153 | 1 | 1 | SC | 40 | 1 |
| 2250 | 8 | 8 | SC | M40 | 8 |
| 2350 | 6 | 6 | SC | M40 | 6 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to 0050 | | 0.00 | 0.0 | | 53 | 53 | | | | |
| 0050 | 1 | 0.00 | 0.0 | 0 | 56 | 53 | | | 29.240 | +0.005 |
| 0650 | 2 | 0.00 | 0.0 | 0 | 54 | 51 | | | 29.350 | +0.005 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 60 | 54 | | | 29.450 | +0.010 |
| 1847 | 4 | 0.00 | 0.0 | 0 | 60 | 53 | | | 29.460 | 0.000 |
| Mid. | | 0.00 | 0.0 | 0 | 54 | 45 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unaltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 45 | 0.20 | 0.0 | 0 | 18 | N | 1047 | 4 | 5 | | 0610 | 1834 | 522 | 70 | 14 | 34 | 1150 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|

<<<< None Logged >>>>

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0207/0930/1203/1842
LAKE TEMP 73 DEGREES//HYGROTHERMOMETER CHECK 1145EST H083 D.B. 57.6 D.P. 38.3
SHELTER D.B. 58.0 W.B. 49.0 D.P. 40.0//FASTEST 1-MIN WIND LAST OF SEVERAL
OCCURRENCES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 18, 1990 To convert LST to UTC:

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0851 40 SCT 20 286/45/42/2203/037/ 305 1500 60 (EES 05:54Z)

72524 32600 32203 10072 20056 39988 40296 53005 83500 333 10156 20067 70000 555 91806= (EES05:56Z)

SA 0150 40 SCT 20 294/43/41/2203/036 (EES 06:51Z)
SA 0250 M36 BKN 20 296/42/41/2204/037/ 98522 (EES 07:52Z)
SA 0351 30 SCT 20 296/42/40/2104/037/ 500 1500 (EES 08:52Z)
SA 0450 CLR 20 296/42/40/0000/037/FEW SC K LYR NE-SE (EES 09:51Z)
SA 0550 220 -OVC 20 288/40/39/1703/037/FEW SC AC (EES 10:52Z)
SA 0651 220 -OVC 20 289/42/40/1704/037/FEW SC/ 102 1507 40 (EES 11:53Z)

72524 32580 81704 10056 20044 39990 40289 51002 81507 333 10156 20044 555 91812= (EES12:21Z)

SA 0751 250 -OVC 20 290/48/43/2105/038/FEW SC (GES 12:53Z)
SA 0850 E250 OVC 20 288/53/45/2205/037/FEW SC (GES 13:52Z)
SA 0951 E250 OVC 15 287/55/45/2205/037/FEW SC/ 000 1507 (GES 14:53Z)
SA 1052 E250 OVC 15 282/59/44/2304/035/FEW SC (GES 15:53Z)
SA 1150 E250 OVC 15 270/59/43/1606/032/FEW SC (GES 16:51Z)
SA 1251 250 -OVC 20 262/61/43/2106/030/ 724 1007 40 (GES 17:54Z)

72524 32980 82106 10161 20061 39966 40262 57024 80007 333 10167 20044 555 44023 91818= (GES17:54Z)

SA 1351 E250 OVC 20 256/61/43/2005/029 (GES 18:52Z)
SA 1450 E250 OVC 20 252/62/44/2208/027 (GES 19:51Z)
SA 1550 E250 OVC 20 245/60/45/2106/025/THN SPTS 10VC/ 717 1007 (LH 20:50Z)
SA 1650 E250 OVC 20 238/60/44/1907/023 (LH 21:50Z)
SA 1750 140 SCT E250 OVC 20 232/58/44/1506/021 (LH 22:50Z)
SA 1850 140 SCT E250 OVC 20 232/56/45/1704/021/ 714 1077 62 (LH 23:50Z)

72524 32980 81704 10133 20072 39936 40232 57014 82077 333 10167 20044 555 91900= (LH23:51Z)

SA 1950 E140 BKN 250 OVC 20 228/55/49/2005/020 (LH 00:50Z)
SA 2050 E130 BKN 250 OVC 20 223/56/48/1906/018 (LH 01:50Z)
SA 2150 M110 OVC 20 216/56/48/1905/017/ 714 107/ (LH 02:50Z)
SA 2250 65 SCT M110 OVC 20 204/55/48/1707/013 (LH 03:50Z)
SA 2350 80 SCT M95 OVC 20 198/55/49/2006/012 (EES 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 18, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 29.495 | | | 3 | 005 | |
| 0150 | 29.490 | | | | | |
| 0250 | 29.495 | | | | | |
| 0351 | 29.495 | | | 5 | 000 | |
| 0450 | 29.495 | | | | | |
| 0550 | 29.500 | | | | | |
| 0651 | 29.500 | | | 1 | 002 | |
| 0751 | 29.505 | | | | | |
| 0850 | 29.500 | | | | | |
| 0951 | 29.500 | | | 0 | 000 | |
| 1052 | 29.485 | | | | | |
| 1150 | 29.450 | | | | | |
| 1251 | 29.430 | | | 7 | 024 | |
| 1351 | 29.410 | | | | | |
| 1450 | 29.400 | | | | | |
| 1550 | 29.380 | | | 7 | 017 | |
| 1650 | 29.360 | | | | | |
| 1750 | 29.340 | | | | | |
| 1850 | 29.340 | | | 7 | 014 | |
| 1950 | 29.330 | | | | | |
| 2050 | 29.320 | | | | | |
| 2150 | 29.300 | | | 7 | 014 | |
| 2250 | 29.265 | | | | | |
| 2350 | 29.250 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time -16- | Tot. Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | Amt | Type | Hgt | 4th Sum | Amt | Type | Hgt | Tot. Opq. -36- |
| 0051 | 4 | 4 | SC | 40 | | | | | | | | | | | | | | | | | | | | 4 |
| 0150 | 2 | 2 | SC | 40 | | | | | | | | | | | | | | | | | | | | 2 |
| 0250 | 6 | 6 | SC | M36 | | | | | | | | | | | | | | | | | | | | 6 |
| 0351 | 3 | 3 | SC | 33 | | | | | | | | | | | | | | | | | | | | 3 |
| 0450 | 0 | 0 | SC | 33 | | | | | | | | | | | | | | | | | | | | 0 |
| 0550 | 10 | 0 | SC | 33 | 0 | AC | 110 | 0 | 10 | CS | 220 | 10 | | | | | | | | | | | | 2 |
| 0651 | 10 | 0 | SC | 30 | 10 | CS | 220 | 10 | | | | | | | | | | | | | | | | 2 |
| 0751 | 10 | 0 | SC | 30 | 10 | CS | 250 | 10 | | | | | | | | | | | | | | | | 3 |
| 0850 | 10 | 0 | SC | 30 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 7 |
| 0951 | 10 | 0 | SC | 35 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 9 |
| 1052 | 10 | 0 | SC | 40 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 8 |
| 1150 | 10 | 0 | SC | 40 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 6 |
| 1251 | 10 | 10 | CS | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 1351 | 10 | 10 | CS | E250 | | | | | | | | | | | | | | | | | | | | 7 |
| 1450 | 10 | 10 | CS | E250 | | | | | | | | | | | | | | | | | | | | 7 |
| 1550 | 10 | 10 | CS | E250 | | | | | | | | | | | | | | | | | | | | 7 |
| 1650 | 10 | 10 | CS | E250 | | | | | | | | | | | | | | | | | | | | 9 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1850 | 10 | 3 | AC | 140 | 10 | CS | E250 | 10 | 7 |
| 1950 | 10 | 7 | AC | E140 | 3 | CS | 250 | 10 | 10 |
| 2050 | 10 | 9 | AC | E130 | 1 | CS | 250 | 10 | 10 |
| 2150 | 10 | 10 | AC | M110 | | | | | 10 |
| 2250 | 10 | 2 | SC | 65 | 8 | AC | M110 | 10 | 10 |
| 2350 | 10 | 3 | AC | 80 | 7 | AC | M95 | 10 | 10 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 53 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to 0049 | | 0.00 | 0.0 | | 45 | 44 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 54 | 44 | | | 29.490 | +0.005 |
| 0549 | 2 | 0.00 | 0.0 | 0 | 45 | 40 | | | 29.495 | +0.005 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 62 | 48 | | | 29.430 | 0.000 |
| 1847 | 4 | 0.00 | 0.0 | 0 | 62 | 56 | | | 29.335 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 56 | 55 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Pstbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | 40 | 0.00 | 0.0 | 0 | 11 | S | 1407 | 10 | 9 | | 0611 | 1832 | 539 | 73 | 9 | 22 | 1450 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|

<<<< None Logged >>>>

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLEAR  Character of Sunset:

Time Check: 0202///

LAKE TEMP 73 DEGREES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 19, 1990  To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0051 55 SCT M65 OVC 20RW- 189/55/50/1506/009/RB33 PCPN VRY LGT/ 72500 157/ 62 (EES 05:54Z)

72524 11780 81506 10120 20100 39897 40189 57025 69991 78022 8257/ 333 10167 20044 79999 90910 555 91906= (EES05:56Z)

SA 0150 M55 OVC 20 186/54/50/1505/008/RE23 (EES 06:51Z)
SA 0250 M55 OVC 7RW- 179/53/50/1404/006/ 98539 (EES 07:51Z)
SA COR 0250 M55 OVC 7RW- 179/53/50/1404/006/RB17/ 98539 (EES 07:54Z)
SA 0351 M41 OVC 6RW- 172/53/50/1909/004/PCPN VRY LGT/ 71705 15// (EES 08:52Z)
RS 0450 M26 OVC 7RW- 162/52/50/1708/001 (EES 09:50Z)
SA 0550 20 SCT M26 OVC 6RW-F 148/52/51/1627/997/PCPN VRY LGT (EES 10:51Z)
RS 0651 12 SCT M34 OVC 8 130/53/51/1611/994/RELB02LE15/ 73409 15// 52 20009 (EES 11:53Z)

72524 11462 81611 10117 20106 39846 40130 57034 60021 72088 885// 333 10167 20111 70023 90956 555 91912= (EES11:56Z)

SP 0740 M9 BKN 28 OVC 7 1613/991 (MAT 12:40Z)
SA 0752 M8 BKN 22 OVC 7 131/54/53/1814/992 (MAT 12:52Z)
SP 0815 8 SCT M24 OVC 21/2RW-F 1511/991 (MAT 13:15Z)
SP 0845 M9 BKN 28 OVC 21/2RW-F 1811/989 (MAT 13:45Z)
SA 0850 M9 OVC 21/2RW-F 124/54/53/1909/989/RB05 (MAT 13:50Z)
SA 0953 M9 BKN 16 OVC 21/2RW-F 122/56/55/2007/989/ 61503 15// (MAT 14:54Z)
SA 1050 M6 BKN 16 OVC 11/2RW-F 117/57/56/2207/987 (MAT 15:49Z)
RS COR 1051 M6 BKN 16 OVC 11/2RW-F 117/57/56/2207/987 (MAT 15:52Z)
SP 1110 M4 BKN 15 OVC 11/2RW-F 2707/987 (MAT 16:12Z)
SP COR 1110 M4 BKN 15 OVC 11/2RW-F 2407/987 (MAT 16:14Z)
SP 1122 4 SCT M13 OVC 11/2RW-F 2308/987 (MAT 16:23Z)
RS 1150 M9 OVC 11/2L-F 113/58/57/2408/987/RELB40 (MAT 16:51Z)
SP 1155 M7 OVC 21/2L-F 2409/987 (MAT 16:55Z)
SA 1250 M7 OVC 21/2F 114/60/58/2709/987/LE35 WND 24V31/ 60707 15// 52 (MAT 17:51Z)

72524 11340 82709 10156 20144 39824 40114 56007 60021 72085 885// 333 10156 20111 70041 90952 555 44023 91918= (MAT17:54Z)

SA 1351 M10 OVC 21/2F 116/60/58/2708/988 (MAT 18:52Z)
SP 1408 M18 OVC 5F 2407/988 (MAT 19:09Z)
SA 1450 M18 OVC 7 122/61/58/2909/989 (MAT 19:52Z)
SA 1550 M15 BKN 24 OVC 9 127/61/57/3007/991/ 212 15// (LH 20:50Z)
SA 1650 M18 BKN 24 OVC 10 134/61/57/3105/993 (LH 21:50Z)
SP 1735 20 SCT M32 OVC 7 3106/994 (LH 22:36Z)
SA 1750 20 SCT M32 BKN 44 OVC 7 137/62/57/3105/994 (LH 22:50Z)
SA 1850 26 SCT M32 OVC 3L-F 143/60/57/3107/995/LB30/ 21500 15// 62 (LH 23:50Z)

72524 11548 83107 10156 20139 39851 40143 52015 69901 75122 885// 333 10167 20111 70041 90910 555 92000= (LH23:51Z)

SA 1950 M34 BKN 48 OVC 10 151/61/57/2904/998/LE04 (LH 00:50Z)
SP 2046 M17 BKN 34 OVC 10L- 3004/999 (LH 01:47Z)
SA 2050 M17 BKN 34 OVC 10L- 156/60/58/3104/999/LB40 (LH 01:50Z)
SA 2150 M20 BKN 55 OVC 9 163/60/57/3605/001/LE03/ 22000 15// (LH 02:50Z)
SA 2250 M17 BKN 31 OVC 10 168/60/56/2705/003 (LH 03:50Z)
SP 2335 17 SCT M55 OVC 10 2905/004 (HJW 04:36Z)
SA 2351 17 SCT M55 OVC 10 172/59/55/2904/004/B1NOVC W (HJW 04:52Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 19, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0051 | 29.225 | | | 7 | 025 | T |
| 0150 | 29.215 | | | | | T |
| 0250 | 29.195 | | | | | 0.03 |
| 0351 | 29.175 | | | 7 | 017 | 0.02 |
| 0450 | 29.145 | | | | | 0.01 |
| 0550 | 29.185 | | | | | 0.02 |
| 0651 | 29.075 | | | 7 | 034 | 0.01 |
| 0752 | 29.055 | | | | | |
| 0850 | 29.035 | | | | | 0.03 |
| 0953 | 29.030 | | | 6 | 015 | T |
| 1051 | 29.015 | | | | | 0.03 |
| 1150 | 29.005 | | | | | 0.01 |
| 1250 | 29.010 | | | 6 | 007 | T |
| 1351 | 29.015 | | | | | |
| 1450 | 29.030 | | | | | |
| 1550 | 29.045 | | | 2 | 012 | |
| 1650 | 29.065 | | | | | |
| 1750 | 29.075 | | | | | |
| 1850 | 29.090 | | | 2 | 015 | T |
| 1950 | 29.115 | | | | | T |
| 2050 | 29.130 | | | | | T |
| 2150 | 29.150 | | | 2 | 020 | T |
| 2250 | 29.165 | | | | | |
| 2351 | 29.175 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [ FIRST ] Amt -22- | Type -23- | Hgt -24- | [ SECOND ] Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | [ THIRD ] Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | [ FOURTH ] Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | [ FIFTH ] Amt | Type | Hgt | 4th Sum | [ SIXTH ] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0051 | 10 | 3 | SC | 55 | 7 | AC | M65 | 10 | | | | | | | | | | | | | | | | 10 |
| 0150 | 10 | 10 | SC | M55 | | | | | | | | | | | | | | | | | | | | 10 |
| 0250 | 10 | 10 | SC | M55 | | | | | | | | | | | | | | | | | | | | 10 |
| 0351 | 10 | 10 | SC | M41 | | | | | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 10 | SC | M26 | | | | | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 1 | SC | 20 | 9 | SC | M26 | 10 | | | | | | | | | | | | | | | | 10 |
| 0651 | 10 | 2 | STFRA | 12 | 8 | SC | M34 | 10 | | | | | | | | | | | | | | | | 10 |
| 0752 | 10 | 8 | SC | M8 | 2 | SC | 22 | 10 | | | | | | | | | | | | | | | | 10 |
| 0850 | 10 | 10 | SC | M9 | | | | | | | | | | | | | | | | | | | | 10 |
| 0953 | 10 | 6 | SC | M9 | 4 | SC | 16 | 10 | | | | | | | | | | | | | | | | 10 |
| 1051 | 10 | 9 | SC | M6 | 1 | SC | 16 | 10 | | | | | | | | | | | | | | | | 10 |
| 1150 | 10 | 10 | SC | M9 | | | | | | | | | | | | | | | | | | | | 10 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1550 | 10 | 9 | SC | M15 | 1 | SC | 24 | 10 | | | | | | | | | 10 |
| 1650 | 10 | 8 | SC | M18 | 2 | SC | 24 | 10 | | | | | | | | | 10 |
| 1750 | 10 | 2 | SC | 20 | 5 | SC | M32 | 7 | 3 | SC | 44 | 10 | | | | | 10 |
| 1850 | 10 | 3 | SC | 26 | 7 | SC | M32 | 10 | | | | | | | | | 10 |
| 1950 | 10 | 8 | SC | M34 | 2 | SC | 48 | 10 | | | | | | | | | 10 |
| 2050 | 10 | 7 | SC | M17 | 3 | SC | 34 | 10 | | | | | | | | | 10 |
| 2150 | 10 | 9 | SC | M20 | 2 | SC | 55 | 10 | | | | | | | | | 10 |
| 2250 | 10 | 9 | SC | M17 | 1 | SC | 31 | 10 | | | | | | | | | 10 |
| 2351 | 10 | 2 | SC | 17 | 8 | SC | M55 | 10 | | | | | | | | | 10 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0050 | | T | 0.0 | | 55 | 54 | | | | |
| 0050 | 1 | T | 0.0 | 0 | 56 | 54 | | | 29.220 | +0.005 |
| 0650 | 2 | 0.09 | 0.0 | 0 | 55 | 52 | | | 29.075 | 0.000 |
| 1249 | 3 | 0.07 | 0.0 | 0 | 60 | 53 | | | 29.000 | +0.010 |
| 1846 | 4 | T | 0.0 | 0 | 62 | 60 | | | 29.080 | +0.010 |
| Mid. | | T | 0.0 | 0 | 61 | 59 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | 52 | 0.16 | 0.0 | 0 | 17 | S | 0707 | 10 | 10 | | 0612 | 1830 | 0 | 0 | 16 | 19 | 0752 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| RW- | 0033 | 0122 |
| SW- | 0217 | 0232 |
| RW | 0232 | 0240 |
| RW- | 0240 | 0302 |
| F | 0528 | 0602 |
| L- | 0602 | 0615 |
| RW- | 0805 | 1140 |
| F | 0810 | 1445 |
| L- | 1140 | 1235 |
| L- | 1830 | 1904 |
| F | 1835 | 1940 |
| L- | 2040 | 2103 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0241/1740//
LAKE TEMP 73 DEGREES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 20, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

SA 0053 17 SCT M55 OVC 10 175/59/55/2604/005/ 21200 15// 62 (HJW 05:54Z)

72524 11466 82034 10150 20120 39883 40175 52012 69901 70252 885// 333 10167 20111 70041 90944 555 92006= (HJW05:56Z)

SA 0153 M33 BKN 55 BKN 10 175/59/54/3206/005 (HJW 06:53Z)
SA 0252 30 SCT 10 171/58/52/3405/004/ 98000 (HJW 07:52Z)
SA 0350 M34 BKN 10 172/52/52/2703/004/ 603 1500 (HJW 08:51Z)
SA 0453 M42 BKN 10 179/57/53/2804/006 (HJW 09:54Z)
SA 0551 50 SCT E250 BKN 10 186/51/50/2305/009 (HJW 10:52Z)
SA 0651 50 SCT 100 SCT E250 BKN 5F 192/50/50/2205/010/ 219 1571 50 20007 (HJW 11:53Z)

72524 31759 72205 10100 20100 39898 40192 52019 71022 82571 333 10167 20100 70018 555 92012= (HJW11:54Z)

SA 0753 55 SCT E250 BKN 5F 198/56/54/2303/012 (MAT 12:54Z)
SA 0853 55 SCT 250 SCT 10 202/63/47/3407/013 (MAT 13:55Z)
SA 0953 38 SCT 250 SCT 10 209/64/47/3609/015/ 219 1501 (MAT 14:54Z)
SA 1050 41 SCT 20 209/65/49/3609/015 (MAT 15:50Z)
SA 1150 44 SCT 20 209/65/46/3107/015/WND 31V14 (MAT 16:52Z)
SA 1250 44 SCT 20 203/67/45/0407/014/ 805 1500 50 (MAT 17:51Z)

72524 32683 20407 10194 20072 39912 40203 58005 82500 333 10194 20100 555 44022 92018= (MAT17:51Z)

SA COR 1250 44 SCT 20 203/67/45/0407/014/ 805 1500 50 (MAT)
SA 1350 44 SCT 20 202/67/45/0309/013 (MAT 18:51Z)
SA 1450 44 SCT 20 204/67/46/3608/014 (MAT 19:50Z)
SA 1550 44 SCT 20 206/67/45/0206/014/ 202 1500 (LH 20:50Z)
SA 1650 CLR 20 211/65/44/0305/016/FEW SC CI (LH 21:50Z)
SA 1750 CLR 20 214/64/44/3604/016/FEW SC CI (LH 22:50Z)
SA 1850 CLR 20 213/59/45/0404/016/FEW CI/ 105 1001 68 (LH 23:50Z)

72524 32980 10404 10150 20072 39919 40213 51005 80001 333 10200 20100 555 92100= (LH23:51Z)

SA 1950 CLR 20 214/57/47/0000/016 (LH 00:50Z)
SA 2050 250 -SCT 20 212/54/48/1803/016/FEW SC (LH 01:53Z)
SA 2150 250 -SCT 20 212/51/47/2004/016/ 400 1001 (LH 02:50Z)
SA 2250 CLR 20 212/50/47/0000/016 (LH 03:50Z)
SA 2351 CLR 20 216/49/46/2203/017 (HJW 04:52Z)

NF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 20, 1990 To convert LST to UTC: 5

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | [pressure] tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0353 | 29.185 | | | 2 | 012 | |
| 0153 | 29.185 | | | | | |
| 0252 | 29.175 | | | | | |
| 0350 | 29.175 | | | 6 | 003 | |
| 0453 | 29.195 | | | | | |
| 0551 | 29.215 | | | | | |
| 0651 | 29.230 | | | 2 | 019 | |
| 0753 | 29.250 | | | | | |
| 0853 | 29.265 | | | | | |
| 0953 | 29.285 | | | 2 | 019 | |
| 1050 | 29.285 | | | | | |
| 1150 | 29.285 | | | | | |
| 1250 | 29.270 | | | 8 | 005 | |
| 1350 | 29.265 | | | | | |
| 1450 | 29.270 | | | | | |
| 1550 | 29.275 | | | 2 | 002 | |
| 1650 | 29.290 | | | | | |
| 1750 | 29.295 | | | | | |
| 1850 | 29.290 | | | 1 | 005 | |
| 1950 | 29.295 | | | | | |
| 2050 | 29.290 | | | | | |
| 2150 | 29.290 | | | 4 | 000 | |
| 2250 | 29.290 | | | | | |
| 2351 | 29.300 | | | | | |

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tot. | | | | | | | 1st. | | | | 2nd. | | | | 3rd. | | | | 4th | | | | | Tot. |
| Time -16- | Sky -21- | Amt -22- | Type -23- | Hgt -24- | Amt -25- | Type -26- | Hgt -27- | Sum -28- | Amt -29- | Type -30- | Hgt -31- | Sum -32- | Amt -33- | Type -34- | Hgt -35- | Sum | Amt | Type | Hgt | Sum | Amt | Type | Hgt | | Opq. -36- |
| 0053 | 10 | 4 | SC | 17 | 6 | SC | M55 | 10 | | | | | | | | | | | | | | | | | 10 |
| 0153 | 9 | 6 | SC | M33 | 3 | SC | 55 | 9 | | | | | | | | | | | | | | | | | 9 |
| 0252 | 5 | 5 | SC | 30 | | | | | | | | | | | | | | | | | | | | | 5 |
| 0350 | 6 | 6 | SC | M34 | | | | | | | | | | | | | | | | | | | | | 6 |
| 0453 | 6 | 6 | SC | M42 | | | | | | | | | | | | | | | | | | | | | 6 |
| 0551 | 9 | 4 | SC | 50 | 4 | CS | E250 | 8 | | | | | | | | | | | | | | | | | 6 |
| 0651 | 9 | 3 | SC | 50 | 2 | AC | 100 | 5 | 4 | CI | E250 | 9 | | | | | | | | | | | | | 7 |
| 0753 | 8 | 1 | SC | 55 | 7 | CS | E250 | 8 | | | | | | | | | | | | | | | | | 6 |
| 0853 | 5 | 1 | SC | 55 | 4 | CS | 250 | 5 | | | | | | | | | | | | | | | | | 4 |
| 0953 | 4 | 3 | SC | 38 | 1 | CI | 250 | 4 | | | | | | | | | | | | | | | | | 4 |
| 1050 | 5 | 5 | SC | 41 | | | | | | | | | | | | | | | | | | | | | 5 |
| 1150 | 3 | 3 | SC | 44 | | | | | | | | | | | | | | | | | | | | | 3 |
| 1250 | 2 | 2 | SC | 44 | | | | | | | | | | | | | | | | | | | | | 2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1650 | 0 | 0 | SC | 45 | 0 | CI | 250 | 0 | | 0 |
| 1750 | 0 | 0 | SC | 45 | 0 | CI | 250 | 0 | | 0 |
| 1850 | 0 | 0 | CI | 250 | | | | | | 0 |
| 1950 | 0 | | | | | | | | | 0 |
| 2050 | 2 | 0 | SC | 45 | 2 | CI | 250 | 2 | | 0 |
| 2150 | 2 | 2 | CI | 250 | | | | | | 0 |
| 2250 | 0 | | | | | | | | | 0 |
| 2351 | 0 | | | | | | | | | 0 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp ( F) - 47 - | Min. Temp ( F) - 48 - | State of Grnd. - 50 - | Soil Temp ( F) - 56 - | [Station Pressure] [Computations] Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0249 | | 0.00 | 0.0 | | 59 | 58 | | | | |
| 0849 | 1 | T | 0.0 | 0 | 61 | 58 | | | 29.175 | +0.010 |
| 0648 | 2 | 0.00 | 0.0 | 0 | 59 | 58 | | | 29.230 | 0.000 |
| 1249 | 3 | 0.00 | 0.0 | 0 | 67 | 58 | | | 29.270 | 0.000 |
| 1847 | 4 | 0.00 | 0.0 | 0 | 68 | 59 | | | 29.290 | 0.000 |
| Mid. | | 0.06 | 0.0 | 0 | 59 | 49 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unaltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 68 | 49 | 0.00 | 0.0 | 0 | 11 | NE | 1227 | 3 | 4 | | 0613 | 1828 | 662 | 90 | 10 | 3 | 1350 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F | 0645 | 2830 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLEAR

Time Check: 0835/0550/1230/1557

LAKE TEMP 72 DEGREES//FASTEST 1 MIN WIND SPEED LAST OF SEVERAL OCCURRENCES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 25, 1990 To convert LST to UTC: 5

```
Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

A 0053 CLR 20 147/47/42/2106/996/ 602 62 (HJW 05:54Z)

2524 32900 02106 10003 20056 39054 40147 56002 333 10167 20033 70000 555 92506* (HJW05:55Z)

A 0152 150 SCT 20 147/48/42/2106/996 (HJW 06:53Z)
A 0253 150 SCT 20 143/49/43/2109/995/ 90360 (HJW 07:54Z)
A 0352 150 SCT 20 141/49/43/2107/995/ 605 1030 (HJW 08:53Z)
A 0452 150 SCT 20 140/49/43/2107/994 (HJW 09:52Z)
A 0551 150 SCT 250 -DKN 20 130/49/43/2105/994 (HJW 10:52Z)
A 0650 E250 DKN 20 137/49/43/2109/993/FEW AC/ 705 1071 47 (HJW 11:51Z)

2524 32900 62109 10094 20061 39044 40137 57005 01071 333 10167 20003 555 92512* (HJW11:52Z)

A 0751 250 SCT 10 120/52/44/2114/991 (LN 12:51Z)
A 0850 250 SCT 10 120/57/45/2113/998 (LN 13:50Z)
A 0950 250 -DKN 10 120/61/47/2013/900/ 715 1002 (LN 14:50Z)
A 1050 250 -DKN 10 112/61/47/2210/906 (LN 15:50Z)
A 1150 250 -DKN 15 104/63/40/2121/904 (LN 16:50Z)
A 1250 250 -DKN 15 009/65/49/2122/979/ 730 1002 47 (LN 17:50Z)

2524 32974 72122 10103 20094 39799 40009 57030 00002 333 10103 20003 555 44021 92510* (LN17:51Z)

A 1350 250 -OVC 15 003/67/50/2220/970/AC NW-N (LN 18:50Z)
A 1450 250 -OVC 20 076/60/50/2221/976/AC W-N (LN 19:50Z)
A 1551 100 SCT 250 -DKN 20 069/60/51/1921/974/ 719 1051 (EES 20:53Z)
A 1650 00 SCT 250 -DKN 20 07'/67/50/2210/974/ACCAS E-S (EES 21:52Z)
A 1750 50 SCT 100 SCT 250 -OVC 20 073/65/50/2113/975 (EES 22:51Z)
A 1851 55 SCT 100 SCT E250 DKN 20 075/63/50/2111/975/ 305 1570 69 (EES 23:54Z)

2524 32700 72111 10172 20100 39705 40075 53005 02570 333 10206 20003 555 92600* (EES23:55Z)

A 1950 100 SCT E250 OVC 20 076/62/50/2011/976 (EES 00:50Z)
A 2050 N55 DKN 250 OVC 20 077/61/51/2010/976 (EES 01:52Z)
A 2151 N50 DKN 250 OVC 20 075/60/51/2010/976/ 202 1501 (EES 02:52Z)
A 2250 50 SCT 250 -SCT 20 072/59/51/2100/975 (EES 03:51Z)
A 2351 55 SCT 10 066/59/51/2000/973 (MAT 04:52Z)
```

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NO
NATIONAL WEATHER SERVI

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 25, 1990 To convert LST to UTC:

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0053 | 29.100 | | | 6 | 002 | |
| 0152 | 29.100 | | | | | |
| 0253 | 29.090 | | | | | |
| 0352 | 29.005 | | | 6 | 005 | |
| 0452 | 29.000 | | | | | |
| 0551 | 29.075 | | | | | |
| 0650 | 29.070 | | | 7 | 005 | |
| 0751 | 29.045 | | | | | |
| 0850 | 29.045 | | | | | |
| 0950 | 29.025 | | | 7 | 015 | |
| 1050 | 29.000 | | | | | |
| 1150 | 28.900 | | | | | |
| 1250 | 28.935 | | | 7 | 030 | |
| 1350 | 28.920 | | | | | |
| 1450 | 28.900 | | | | | |
| 1551 | 28.800 | | | 7 | 019 | |
| 1650 | 28.005 | | | | | |
| 1750 | 28.090 | | | | | |
| 1851 | 28.095 | | | 3 | 005 | |
| 1950 | 28.900 | | | | | |
| 2050 | 28.905 | | | | | |
| 2151 | 26.900 | | | 2 | 002 | |
| 2250 | 28.090 | | | | | |
| 2351 | 28.075 | | | | | |

-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 25, 1990 To convert LST to UTC: 5

( CLOUD LAYERS AND OBSCURING PHENOMENA )

| Tot. Sky -21- | ( FIRST ) Amt -22- | Type -23- | Hgt -24- | ( SECOND ) Amt -25- | Type -26- | Hgt -27- | 1st. Sus -28- | ( THIRD ) Amt -29- | Type -30- | Hgt -31- | 2nd. Sus -32- | ( FOURTH ) Amt -33- | Type -34- | Hgt -35- | 3rd. Sus | ( FIFTH ) Amt | Type | Hgt | 4th Sus | ( SIXTH ) Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | 1 | AC | 150 | | | | | | | | | | | | | | | | | | | | 1 |
| 4 | 4 | AC | 150 | | | | | | | | | | | | | | | | | | | | 4 |
| 4 | 4 | AC | 150 | | | | | | | | | | | | | | | | | | | | 4 |
| 3 | 3 | AC | 150 | | | | | | | | | | | | | | | | | | | | 3 |
| 6 | 3 | AC | 150 | 3 | CI | 250 | 6 | | | | | | | | | | | | | | | | 3 |
| 7 | 0 | AC | 150 | 7 | CI | E250 | 7 | | | | | | | | | | | | | | | | 4 |
| 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | | | | | 2 |
| 4 | 4 | CI | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 8 | 0 | CI | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 7 | 7 | CI | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 8 | 0 | CI | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 9 | 9 | CI | 250 | | | | | | | | | | | | | | | | | | | | 4 |
| 10 | 0 | AC | 100 | 10 | CI | 250 | 10 | | | | | | | | | | | | | | | | 4 |
| 10 | 0 | AC | 100 | 10 | CI | 250 | 10 | | | | | | | | | | | | | | | | 5 |
| 9 | 2 | AC | 100 | 7 | CI | 250 | 9 | | | | | | | | | | | | | | | | 3 |
| 9 | 1 | AC | 80 | 0 | CI | 250 | 9 | | | | | | | | | | | | | | | | 3 |
| 10 | 2 | SC | 50 | 1 | AC | 100 | 3 | 10 | CS | 250 | 10 | | | | | | | | | | | | 5 |
| 9 | 2 | SC | 55 | 1 | AC | 100 | 3 | 6 | CS | E250 | 9 | | | | | | | | | | | | 7 |
| 10 | 2 | AC | 100 | 10 | CS | E250 | 10 | | | | | | | | | | | | | | | | 8 |
| 10 | 7 | SC | N55 | 3 | CS | 250 | 10 | | | | | | | | | | | | | | | | 9 |
| 10 | 7 | SC | N50 | 3 | CI | 250 | 10 | | | | | | | | | | | | | | | | 9 |
| 4 | 1 | SC | 50 | 3 | CI | 250 | 4 | | | | | | | | | | | | | | | | 2 |
| 5 | 5 | SC | 55 | | | | | | | | | | | | | | | | | | | | 5 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) -44- | Snow Fall (ins.) -45- | Snow Depth (ins.) -46- | Max. Temp (F) -47- | Min. Temp (F) -48- | State of Grnd. -50- | Soil Temp (F) -54- | (Station Pressure) (Computations) Barograph -64- | Corr. -65- |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0250 | | 0.00 | 0.0 | | 49 | 47 | | | | |
| 0850 | 1 | 0.02 | 0.0 | 0 | 53 | 47 | | | 29.890 | +0.010 |
| 0640 | 2 | 0.02 | 0.0 | 0 | 50 | 47 | | | 29.865 | +0.005 |
| 1246 | 3 | 0.02 | 0.0 | 0 | 65 | 49 | | | 28.925 | +0.010 |
| 1840 | 4 | 0.02 | 0.0 | 0 | 69 | 63 | | | 26.890 | +0.005 |
| Mid. | | 0.02 | 0.0 | 0 | 63 | 59 | | | | |

Summary of Day (Midnight to midnight)

| (TEMPS) Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unofficial (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71- | Dir. -72- | Time (LST) -73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | (Fastest Wind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 69 | 47 | 0.00 | 0.0 | 0 | 31 | SW | 1534 | 0 | 7 | | 0618 | 1828 | 521 | 72 | 25 | 21 | 1250 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|

<<<< None Logged >>>>

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0830/0753/1922/2340
LAKE TEMP 69 DEGREES//

I-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 26, 1990 To convert LST to UTC: 5

Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wnd/Asi/ Remarks&SupplementalCodedData

050 55 SCT 75 SCT 10 064/59/51/2109/973/ 610 1570 69 (MAT 05:51Z)

4 32766 32109 10150 20106 39777 40064 56810 01570 333 10206 20093 70000 555 92606= (MAT05:52Z)

0150 M55 BKN 80 BKN 10 066/59/52/2209/973 (MAT 06:51Z)
0250 M55 BKN 10 064/58/52/2207/973/ 90521 (MAT 07:50Z)
0350 55 SCT 10 066/56/52/2207/973/ 102 1500 (MAT 08:51Z)
0450 M40 BKN 10 073/57/53/2207/975 (MAT 09:50Z)
0550 60 SCT E110 BKN 250 BKN 8 002/56/53/2507/970 (MAT 10:51Z)
0650 110 SCT 5F 009/56/54/2607/980/ 222 1030 55 (MAT 11:50Z)

24 31950 22607 10133 20122 39000 40009 52022 71011 02030 333 10206 20120 555 92612= (MAT11:51Z)

0750 20 SCT 5F 093/58/55/2406/981 (LN 12:50Z)
0806 N12 BKN 5F 2505/982 (LN 13:07Z)
0850 N12 OVC 5F 101/61/57/2404/983 (LN 13:50Z)
0950 N12 BKN 16 OVC 5F 110/64/58/3207/986/BINOVC/ 220 15// (LN 14:50Z)
1011 N16 BKN 6F 3300/987 (LN 15:11Z)
1053 16 SCT 7 115/67/58/3107/987 (LN 15:53Z)
1150 CLR 10 120/69/55/3209/989/FEW SC (LN 16:50Z)
1250 CLR 10 123/69/56/3109/990/FEW CU/ 214 1100 55 (LN 17:50Z)

24 32566 13109 10206 20133 39034 40123 52014 01100 333 10211 20120 555 44021 92610= (LN10:41Z)

1353 CLR 12 128/70/56/3310/992/FEW CU (LN 18:52Z)
1450 CLR 15 133/70/55/3107/993/FEW CU (LN 19:50Z)
1550 CLR 15 139/70/55/3307/994/FEW CU/ 215 1100 (LN 20:50Z)
1650 CLR 20 144/69/55/3605/996 (EES 21:51Z)
1750 CLR 20 152/66/55/0105/990 (EES 22:50Z)
1851 CLR 15 157/64/56/0000/000/ 217 71 (EES 23:53Z)

24 32974 00000 10170 20133 39066 40157 52017 333 10217 20120 555 92700= (EES23:54Z)

1950 CLR 15 161/58/55/0000/001 (EES 00:50Z)
2050 CLR 15 164/59/56/0000/002 (EES 01:51Z)
2151 CLR 15 172/54/53/2104/004/ 214 (EES 02:51Z)
2250 CLR 10 171/53/53/2105/004 (EES 03:50Z)
2350 CLR 5F 171/53/52/2305/004 (MAT 04:50Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOA
NATIONAL WEATHER SERVIC

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 26, 1990 To convert LST to UTC:

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | mel chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 28.070 | | | 6 | 010 | |
| 0150 | 28.075 | | | | | |
| 0250 | 28.070 | | | | | |
| 0350 | 28.075 | | | 1 | 002 | |
| 0450 | 28.095 | | | | | |
| 0550 | 28.920 | | | | | |
| 0650 | 28.940 | | | 2 | 022 | |
| 0750 | 28.950 | | | | | |
| 0850 | 28.975 | | | | | |
| 0950 | 29.000 | | | 2 | 020 | |
| 1053 | 29.015 | | | | | |
| 1150 | 29.030 | | | | | |
| 1250 | 29.040 | | | 2 | 014 | |
| 1353 | 29.055 | | | | | |
| 1450 | 29.070 | | | | | |
| 1550 | 29.085 | | | 2 | 015 | |
| 1650 | 29.100 | | | | | |
| 1750 | 29.120 | | | | | |
| 1851 | 29.135 | | | 2 | 017 | |
| 1950 | 29.145 | | | | | |
| 2050 | 29.155 | | | | | |
| 2151 | 29.175 | | | 2 | 014 | |
| 2250 | 29.175 | | | | | |
| 2350 | 29.175 | | | | | |

DB

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
urface Weather Observations  Date: SEP 26, 1990 To convert LST to UTC: S

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| [ FIRST ] | | | [ SECOND ] | | | [ THIRD ] | | | [ FOURTH ] | | | [ FIFTH ] | | | [ SIXTH ] | | | Tot. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1st. | | | 2nd. | | | 3rd. | | | 4th | | | | |
| Amt | Type | Hgt | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Sum | Opq. |
| -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | | -36- |
| 1 | SC | 55 | 3 | AC | 75 | 4 | | | | | | | | | | | | | 4 |
| 7 | SC | M55 | 1 | AC | 80 | 8 | | | | | | | | | | | | | 8 |
| 0 | SC | M55 | | | | | | | | | | | | | | | | | 0 |
| 2 | SC | 55 | | | | | | | | | | | | | | | | | 2 |
| 9 | SC | M40 | | | | | | | | | | | | | | | | | 9 |
| 3 | SC | 60 | 4 | AC | E130 | 7 | 1 | CS | 250 | 8 | | | | | | | | | 8 |
| 2 | AC | 110 | | | | | | | | | | | | | | | | | 2 |
| 4 | SC | 20 | | | | | | | | | | | | | | | | | 3 |
| 10 | SC | M12 | | | | | | | | | | | | | | | | | 10 |
| 0 | SC | M12 | 2 | SC | 16 | 10 | | | | | | | | | | | | | 10 |
| 4 | SC | 16 | | | | | | | | | | | | | | | | | 4 |
| 0 | SC | 20 | | | | | | | | | | | | | | | | | 0 |
| 0 | CU | 25 | | | | | | | | | | | | | | | | | 0 |
| 0 | CU | 25 | | | | | | | | | | | | | | | | | 0 |
| 0 | CU | 30 | | | | | | | | | | | | | | | | | 0 |
| 0 | CU | 40 | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | | | 0 |

Synoptic Observations

| Time (LST) | No. | Precip. (ins.) | Snow Fall (ins.) | Snow Depth (ins.) | Max. Temp (F) | Min. Temp (F) | State of Grnd. | Soil Temp (F) | (Station Pressure) (Computations) Barograph | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|
| -42- | -43- | -44- | -45- | -46- | -47- | -48- | -50- | -56- | -64- | -65- |
| Mid to | | | | | | | | | | |
| 0249 | | 0.00 | 0.0 | | 59 | 50 | | | | |
| 0249 | 1 | 0.00 | 0.0 | 0 | 63 | 50 | | | 28.060 | +0.010 |
| 0647 | 2 | 0.00 | 0.0 | 0 | 59 | 55 | | | 28.930 | +0.010 |
| 1241 | 3 | 0.00 | 0.0 | 0 | 70 | 55 | | | 29.035 | +0.005 |
| 1850 | 4 | 0.00 | 0.0 | 0 | 71 | 63 | | | 29.120 | +0.015 |
| Mid. | | 0.00 | 0.0 | 0 | 64 | 53 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) | Min (F) | 24-hr Precip (ins.) | 24-hr Snow Unoltd (ins.) | Snow Depth (ins.) | [ Peak Wind ] Spd (kts.) | Dir. | Time (LST) | [ Sky Cover ] SK-SS | Mid-Mid | Water Equiv. (ins.) | Sun-Rise | Sun-Set | Total Sun | % Pstl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -66- | -67- | -68- | -69- | -70- | -71 | 72 | 73- | -78- | -79- | -80- | | | | | | | |
| 71 | 53 | 0.00 | 0.0 | 0 | 13 | NW | 1240 | 3 | 3 | | 0619 | 1810 | 596 | 83 | 12 | 33 | 1353 |

Weather & Obstruction to Vision

| Type | began | end |
|---|---|---|
| -82- | -83- | -84- |
| F | 0630 | 1040 |
| F | 2330 | CONT |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLEAR

Time Checks: 0240/0640/1922/2330
LAKE TEMP 69//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 27, 1990 To convert LST to UTC: 5

Type Time Sky&Ceiling Vsby&W:&Obsns Slp/Temp/Dp/Wnd/Asl/ Remarks&SupplementalCodedData

SA 0050 CLR 4F 175/52/51/2204/005/ 203 71 (MAT 05:50Z)

72524 31956 02204 10111 20106 39003 40175 52003 71000 333 10217 20111 70000 555 92706= (MAT05:51Z)

SA 0153 CLR 3F 175/51/50/2103/005 (MAT 06:53Z)
SA 0250 CLR 3F 177/49/49/2103/005/SHLW GF ON FLD/ 90596 (MAT 07:51Z)
SA 0350 -X 3F 182/50/49/1903/007/F1/ 207 (MAT 08:50Z)
RS 0450 -X 2F 185/49/48/1803/008/F3 (MAT 09:50Z)
SP 0501 -X 11/2F 1003/000/F3 (MAT 10:01Z)
SP 0503 WS X 1/4F 1503/000 (MAT 10:03Z)
SP 0500 WS X 1/16F 1504/000 (MAT 10:00Z)
RS 0550 WS X 1/16F 189/51/51/1403/009 (MAT 10:50Z)
SP 0640 WI X 1/16F 1007/011 (MAT 11:40Z)
SA 0650 WI X 1/16F 198/53/53/1706/012/ 215 40 (MAT 11:53Z)

72524 31/01 91706 10117 20117 39905 40198 52015 74443 333 10217 20009 555 92712= (MAT11:54Z)

SP 0734 WI X 1/8F 1906/013 (LN 12:35Z)
SA 0750 WI X 1/8F 204/55/55/1906/013 (LN 12:50Z)
SP 0753 WI X 1/4F 1806/013 (LN 12:53Z)
SP 0819 -X M3 OVC 3/8F 1006/014/SFC VSBY 3/4 SUN VSBL (LN 13:19Z)
SP 0830 -X M4 BKN 1F 2007/014/F2 (LN 13:31Z)
SP 0843 -X 4 SCT 250 -SCT 1F 2106/014/F1 (LN 13:43Z)
SA 0850 -X 4 SCT 250 -SCT 1F 207/50/50/1906/014/F1 (LN 13:50Z)
SP 0929 250 -SCT 4F 1907/015 (LN 14:29Z)
SA 0950 250 -BKN 6M 200/65/57/2100/015/ 210 1001 (LN 14:56Z)
SA 1050 250 -BKN 7 211/60/56/2107/015 (LN 15:50Z)
SA 1150 250 -SCT 10 206/71/55/2104/014 (LN 16:50Z)
SA 1250 250 -SCT 10 197/73/54/3105/012/ 010 1001 40 (LN 17:50Z)

72524 32966 43105 10220 20122 39905 40197 50010 00001 333 10239 20009 555 44020 92710= (LN17:51Z)

SA 1350 250 -SCT 10 191/75/55/2300/010/FEW CU (LN 18:52Z)
SA 1450 250 -BKN 12 100/76/56/2706/009/FEW CU (LN 19:50Z)
SA 1552 250 -BKN 12 104/76/55/2300/008/FEW CU/ 612 1100 (NJW 20:54Z)
SA 1652 250 -BKN 10 105/75/56/2205/008/FEW CU (NJW 21:53Z)
SA 1752 250 -BKN 10 192/70/59/0305/010/FEW CU (NJW 22:53Z)
SA 1850 250 -BKN 10 192/66/59/0404/010/ 107 1000 76 (NJW 23:50Z)

72524 32966 60401 10109 20150 39900 40192 51007 00000 333 10244 20009 555 92000= (NJW23:50Z)

SA 1954 250 -BKN 10 196/64/58/1704/011 (NJW 00:55Z)
SA 2052 250 -SCT 10 197/62/58/2003/012 (NJW 01:53Z)
SA 2151 250 SCT 10 198/62/57/2005/012/ 107 1002 (NJW 02:52Z)
SA 2250 250 -SCT 10 198/61/56/2105/012 (NJW 03:50Z)
SA 2350 250 -SCT 8 198/58/54/2005/012 (MAT 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE
NATIONAL WEATHER S

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 27, 1990 To convert LST to

| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | net chg -38- | Fraci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.105 | | | 2 | 003 | |
| 0153 | 29.105 | | | | | |
| 0250 | 29.190 | | | | | |
| 0350 | 29.205 | | | 2 | 007 | |
| 0450 | 29.215 | | | | | |
| 0550 | 29.225 | | | | | |
| 0650 | 29.250 | | | 2 | 015 | |
| 0750 | 29.265 | | | | | |
| 0850 | 29.275 | | | | | |
| 0950 | 29.280 | | | 2 | 010 | |
| 1050 | 29.290 | | | | | |
| 1150 | 29.275 | | | | | |
| 1250 | 29.250 | | | 8 | 010 | |
| 1350 | 29.235 | | | | | |
| 1450 | 29.225 | | | | | |
| 1552 | 29.215 | | | 6 | 012 | |
| 1652 | 29.215 | | | | | |
| 1752 | 29.235 | | | | | |
| 1850 | 29.235 | | | 1 | 007 | |
| 1954 | 29.245 | | | | | |
| 2052 | 29.250 | | | | | |
| 2151 | 29.255 | | | 1 | 007 | |
| 2250 | 29.255 | | | | | |
| 2350 | 29.255 | | | | | |

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH

Surface Weather Observations — Date: SEP 27, 1990 To convert LST to UTC: 5

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| Time -16- | Tot. Sky -21- | [FIRST] Amt -22- | Type -23- | Hgt -24- | [SECOND] Amt -25- | Type -26- | Hgt -27- | 1st. Sum -28- | [THIRD] Amt -29- | Type -30- | Hgt -31- | 2nd. Sum -32- | [FOURTH] Amt -33- | Type -34- | Hgt -35- | 3rd. Sum | [FIFTH] Amt | Type | Hgt | 4th Sum | [SIXTH] Amt | Type | Hgt | Tot. Opq. -36- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0050 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 0153 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 0250 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 0350 | 1 | 1 | F | 0 | | | | | | | | | | | | | | | | | | | | 1 |
| 0450 | 3 | 3 | F | 0 | | | | | | | | | | | | | | | | | | | | 3 |
| 0550 | 10 | 10 | F | W0 | | | | | | | | | | | | | | | | | | | | 10 |
| 0650 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0750 | 10 | 10 | F | W1 | | | | | | | | | | | | | | | | | | | | 10 |
| 0850 | 5 | 1 | F | 0 | 0 | BT | 4 | 1 | 4 | CI | 250 | 5 | | | | | | | | | | | | 1 |
| 0950 | 7 | 7 | CI | 250 | | | | | | | | | | | | | | | | | | | | 0 |
| 1050 | 7 | 7 | CI | 250 | | | | | | | | | | | | | | | | | | | | 0 |
| 1150 | 5 | 5 | CI | 250 | | | | | | | | | | | | | | | | | | | | 0 |
| 1250 | 5 | 5 | CI | 250 | | | | | | | | | | | | | | | | | | | | 0 |
| 1350 | 5 | 0 | CU | 45 | 5 | CI | 250 | 5 | | | | | | | | | | | | | | | | 0 |
| 1450 | 6 | 0 | CU | 45 | 6 | CI | 250 | 6 | | | | | | | | | | | | | | | | 0 |
| 1552 | 6 | 0 | CU | 45 | 6 | CS | 250 | 6 | | | | | | | | | | | | | | | | 2 |
| 1652 | 7 | 0 | CU | 50 | 7 | CS | 250 | 7 | | | | | | | | | | | | | | | | 2 |
| 1752 | 0 | 0 | CU | 50 | 0 | CS | 250 | 0 | | | | | | | | | | | | | | | | 3 |
| 1850 | 0 | 0 | CS | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 1954 | 6 | 6 | CS | 250 | | | | | | | | | | | | | | | | | | | | 2 |
| 2052 | 5 | 5 | CS | 250 | | | | | | | | | | | | | | | | | | | | 2 |
| 2151 | 5 | 5 | CS | 250 | | | | | | | | | | | | | | | | | | | | 3 |
| 2250 | 4 | 4 | CS | 250 | | | | | | | | | | | | | | | | | | | | 1 |
| 2350 | 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | | | | | 1 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (Ins.) -44- | Snow Fall (Ins.) -45- | Snow Depth (Ins.) -46- | Max. Temp (F) -47- | Min. Temp (F) -48- | State of Grnd. -50- | Soil Temp (F) -56- | (Station Pressure) (Computations) Barograph -64- | Corr. -65- |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to 0049 | | 0.00 | 0.0 | | 54 | 52 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 64 | 52 | | | 29.170 | +0.015 |
| 0447 | 2 | 0.00 | 0.0 | 0 | 53 | 48 | | | 29.240 | +0.010 |
| 1246 | 3 | 0.00 | 0.0 | 0 | 75 | 53 | | | 29.255 | -0.005 |
| 1640 | 4 | 0.00 | 0.0 | 0 | 76 | 66 | | | 29.230 | +0.005 |
| Mid. | | 0.00 | 0.0 | 0 | 66 | 50 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (Ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | (Peak Wind) Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [Sky Cover] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | (Fastest Wind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 76 | 48 | 0.00 | 0.0 | 0 | 11 | S | 0936 | 7 | 5 | | 0620 | 1816 | 593 | 83 | 9 | 23 | 1552 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F+ | CONT 0(2330) | 0940 |
| H | 0940 | 1020 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: FOGGY    Character of Sunset: CLEAR

Time Check: 0030/0630/0740/1045

LATE TEMP 60 DEGREES//FASTEST 1-MIN WIND LAST OF SEVERAL OCCURRENCES//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 28, 1990 To convert LST to UTC: 5

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Type Time Sky&Ceiling Vsby&Wx&Obsns Slp/Tmp/Dp/Wnd/Asl/ Remarks&SupplementalCodedData

SA 0050 250 -SCT 9 157/59/54/2005/012/ 408 1001 76 (NAT 05:50Z)

72524 32964 22005 10150 20122 39907 40197 54020 00000 333 10244 20089 70000 555 92004+ (NA705:51Z)

SA 0150 CLR 9 195/58/54/2005/012 (NAT 06:53Z)
SA 0250 CLR 9 194/57/54/2005/011/ 90593 (NAT 07:50Z)
SA 0350 CLR 9 196/56/53/2006/012/ 502 (NAT 08:52Z)
SA 0450 CLR 9 203/57/53/2104/014 (NAT 09:50Z)
SA 0550 CLR 8 207/56/53/2105/015 (NAT 10:50Z)
SA 0650 60 SCT 250 -SCT 8 211/56/53/1904/016/ 214 1501 54 (NAT 11:50Z)

72524 32762 31904 10133 20117 39919 40211 52014 01501 333 10244 20122 555 92012+ (NAT11:50Z)

SA 0750 60 SCT 250 -BKN 7 212/62/56/2104/016 (LN 12:50Z)
SA 0850 70 SCT 250 -BKN 9 215/66/58/2100/017 (LN 13:50Z)
SA 0950 70 SCT 250 -BKN 10 213/71/59/2107/017/ 003 1071 (LN 14:50Z)
SA 1050 80 SCT 250 -BKN 10 207/74/60/2300/015 (LN 15:50Z)
SA 1151 M70 BKN 10 204/76/61/2200/014 (LN 16:50Z)
SA 1250 50 SCT 080 OVC 10 198/77/61/2207/012/THK SPTS 10VC/ 714 157/ 54 (LN 17:50Z)

72524 32766 02207 10250 20161 39909 40190 57014 02157/ 333 10250 20122 555 44020 92010+ (LN17:51Z)

SA 1350 M80 OVC 10 194/76/61/2207/011 (LN 18:51Z)
SA 1450 M80 OVC 10 192/75/60/2207/011 (LN 19:50Z)
SA 1553 M85 OVC 10 193/73/60/1810/011/ 607 1071/ (NJW 20:54Z)
SA 1652 80 SCT E250 BKN 7 196/73/61/2104/012 (NJW 21:53Z)
SA 1753 M100 BKN 250 OVC 7 193/71/61/1807/011/THK SPTS 10VC (NJW 22:54Z)
SA 1850 E130 BKN 250 OVC 10 193/68/62/2005/011/ 020 1070 77 (NJW 23:55Z)

72524 32966 02005 10200 20167 39902 40193 50000 05070 333 10250 20122 555 92000+ (NJW23:55Z)

SA 1952 80 SCT E130 BKN 250 BKN 8 193/66/61/3705/011 (NJW 00:53Z)
SA 2050 80 SCT E130 OVC 8 195/67/61/1905/012 (NJW 01:50Z)
SA 2150 80 SCT E130 OVC 8 195/67/61/2006/012/RD22E45/ 10300 107/ (NJW 02:51Z)
SA 2251 M85 OVC 7RW- 189/66/61/2003/010/R035 (NJW 03:51Z)
SA 2350 90 SCT N110 OVC 7RW- 189/65/62/2304/010 (NAT 04:50Z)
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MF1-10B

U.S. DEPARTMENT OF COMMERCE,
NATIONAL WEATHER SI

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 28, 1990 To convert LST to

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| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend- ency -37- | net chg -38- | Preci- pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.255 | | | 4 | 008 | |
| 0150 | 29.250 | | | | | |
| 0250 | 29.245 | | | | | |
| 0350 | 29.250 | | | 5 | 002 | |
| 0450 | 29.270 | | | | | |
| 0550 | 29.280 | | | | | |
| 0650 | 29.290 | | | 2 | 014 | |
| 0750 | 29.295 | | | | | |
| 0850 | 29.305 | | | | | |
| 0950 | 29.300 | | | 0 | 003 | |
| 1050 | 29.285 | | | | | |
| 1151 | 29.275 | | | | | |
| 1250 | 29.260 | | | 7 | 014 | |
| 1350 | 29.245 | | | | | |
| 1450 | 29.240 | | | | | |
| 1553 | 29.240 | | | 6 | 007 | |
| 1652 | 29.250 | | | | | |
| 1753 | 29.240 | | | | | |
| 1850 | 29.243 | | | 0 | 000 | |
| 1952 | 29.240 | | | | | |
| 2050 | 29.250 | | | | | |
| 2150 | 29.250 | | | 1 | 003 | T |
| 2251 | 29.235 | | | | | T |
| 2350 | 29.235 | | | | | 0.01 |

1200

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 28, 1990 To convert LST to UTC: 5

( CLOUD LAYERS AND OBSCURING PHENOMENA )

| | | ( FIRST ) | | | ( SECOND ) | | | ( THIRD ) | | | ( FOURTH ) | | | ( FIFTH ) | | | ( SIXTH ) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tot. | | | | | | 1st. | | | 2nd. | | | 3rd. | | | 4th | | | | Tot. |
| Time | Sky | Amt | Type | Hgt | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Sum | Amt | Type | Hgt | Opq. |
| -16- | -21- | -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | -34- |
| 0050 | 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | 1 |
| 0150 | 0 | | | | | | | | | | | | | | | | | | | 0 |
| 0250 | 0 | | | | | | | | | | | | | | | | | | | 0 |
| 0350 | 0 | | | | | | | | | | | | | | | | | | | 0 |
| 0450 | 0 | | | | | | | | | | | | | | | | | | | 0 |
| 0550 | 0 | | | | | | | | | | | | | | | | | | | 0 |
| 0650 | 4 | 1 | SC | 60 | 3 | CI | 250 | 4 | | | | | | | | | | | | 1 |
| 0750 | 6 | 2 | SC | 60 | 4 | CI | 250 | 6 | | | | | | | | | | | | 2 |
| 0850 | 7 | 3 | AC | 70 | 4 | CI | 250 | 7 | | | | | | | | | | | | 3 |
| 0950 | 7 | 2 | AC | 70 | 7 | CI | 250 | 7 | | | | | | | | | | | | 2 |
| 1050 | 8 | 5 | AC | 80 | 3 | CI | 250 | 8 | | | | | | | | | | | | 3 |
| 1151 | 8 | 8 | AC | N70 | | | | | | | | | | | | | | | | 6 |
| 1250 | 10 | 2 | SC | 60 | 8 | AC | N80 | 10 | | | | | | | | | | | | 8 |
| 1350 | 10 | 10 | AC | N80 | | | | | | | | | | | | | | | | 10 |
| 1450 | 10 | 10 | AC | N80 | | | | | | | | | | | | | | | | 10 |
| 1553 | 10 | 10 | AC | N85 | | | | | | | | | | | | | | | | 10 |
| 1652 | 9 | 5 | AC | 80 | 4 | CS | E250 | 9 | | | | | | | | | | | | 7 |
| 1753 | 10 | 6 | AC | N100 | 4 | CS | 250 | 10 | | | | | | | | | | | | 7 |
| 1850 | 10 | 6 | AC | E130 | 4 | CS | 250 | 10 | | | | | | | | | | | | 8 |
| 1957 | 9 | 4 | AC | 80 | 2 | AC | E130 | 6 | 3 | CS | 250 | 9 | | | | | | | | 7 |
| 2050 | 10 | 3 | AC | 80 | 7 | AC | E130 | 10 | | | | | | | | | | | | 10 |
| 2150 | 10 | 4 | AC | 80 | 6 | AC | E130 | 10 | | | | | | | | | | | | 10 |
| 2251 | 10 | 10 | AC | N85 | | | | | | | | | | | | | | | | 10 |
| 2350 | 10 | 4 | AC | 90 | 6 | AS | N110 | 10 | | | | | | | | | | | | 10 |

Synoptic Observations

| Time (LST) | No. | Precip. (ins.) | Snow Fall (ins.) | Snow Depth (ins.) | Max. Temp (F) | Min. Temp (F) | State of Grnd. | Soil Temp (F) | [Station Pressure] [Computations] Barograph | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|
| -42- | -43- | -44- | -45- | -46- | -47- | -48- | -50- | -56- | -64- | -65- |
| Mid to | | | | | | | | | | |
| 0049 | | 0.00 | 0.0 | | 59 | 50 | | | | |
| 0049 | 1 | 0.00 | 0.0 | 0 | 66 | 50 | | | 29.250 | +0.025 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 59 | 54 | | | 29.290 | 0.000 |
| 1247 | 3 | 0.00 | 0.0 | 0 | 77 | 56 | | | 29.260 | 0.020 |
| 1848 | 4 | 0.00 | 0.0 | 0 | 77 | 60 | | | 29.240 | 0.000 |
| Mid. | | 0.01 | 0.0 | 0 | 60 | 64 | | | | |

Summary of Day (Midnight to Midnight)

| [TEMPS] Max (F) | Min (F) | 24-hr Precip (ins.) | 24-hr Snow Unoltd (ins.) | Snow Depth (ins.) | [Peak Wind] Spd (kts.) | Dir. | Time (LST) | [Sky Cover] Sk-SS | Mid-Mid | Water Equiv. (ins.) | Sun-Rise | Sun-Set | Total Sun | % Pssbl | [Fastest Wind] Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -66- | -67- | -68- | -69- | -70- | -71 | 72 | 73- | -78- | -79- | -80- | | | | | | | |
| 77 | 54 | 0.01 | 0.0 | 0 | 13 | S | 1541 | 8 | 7 | | 0621 | 1815 | 301 | 53 | 12 | 18 | 1553 |

Weather & Obstruction to Vision

| Type | began | end |
|---|---|---|
| -82- | -83- | -84- |
| RW- | 2122 | 2145 |
| RW- | 2235 | CONT |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Checks: 0830/0630/0751/1830

LAKE TEMP 68 DEGREES//PK WIND LAST OF TWO OCCURRENCES//

-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 29, 1990 To convert LST to UTC: 5

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Time Sky&Ceiling Vsby&Wx&Obsns Slp/Temp/Dp/Wind/Misl Remarks&Supplemental&CodedData

0250 BR SCT E130 OVC 8 189/63/61/2205/010/AC30/ 68501 107/ 77 (MAT 03:52I)

14 11962 02205 10172 20161 39500 40109 56005 69931 72502 00071 333 10250 20122 70003 98935 555 92986= (MAT05:54I)

0152 BR SCT E130 OVC 7 189/63/61/2304/010 (MAT 06:50I)
0250 BR10 OVC 5F 186/62/61/2205/009/ 98301 (MAT 07:50I)
0350 BR10 OVC 6F 192/63/60/2504/011/ 302 102/ (MAT 08:51I)
0450 BR SCT E250 OVC 4F 195/61/60/2305/012 (MAT 09:51I)
0520 BS OVC 4F 2305/012 (MAT 10:20I)
0550 BS OVC 4F 195/62/60/2204/012 (MAT 10:51I)
0623 -R R4 OVC 11/2F 2104/012/F2 (MAT 11:23I)
0650 -R R3 OVC 1F 201/62/61/0000/013/F3/ 300 167/ 63 20001 (MAT 11:50I)

24 30216 00000 10167 20161 39910 40201 53000 71022 00677 333 10250 20161 70003 555 92912= (MAT11:51I)

0750 -R R3 OVC 1F 203/64/63/0303/013/F3 (EES 12:51I)
0836 R6 OVC 21/2F 0203/014 (EES 13:37I)
0850 R6 OVC 21/2F 204/65/63/0400/014 (EES 13:51I)
0950 R6 OVC 21/2RW-F 206/64/63/3004/015/RB1350 PCPN VRY LGT WND LGT VRBL/ 20500 177/ (EES 14:53I)
1050 BS OVC 2RW-F 205/64/63/3604/014/WND LGT VRBL (EES 15:52I)
1150 BS OVC 2RW-F 201/63/63/0000/013/PCPN VRY LGT (EES 16:52I)
1224 BS OVC 11/2RW-F 0205/011 (EES 17:25I)
1237 5 SCT R05 BKN 95 OVC 11/2RW-F 3605/011/PCPN VRY LGT (EES 17:39I)
1251 5 SCT 85 SCT N100 OVC 11/2RW-F 195/63/63/0704/011/ 01207 177/ 61 (EES 17:55I)

524 11224 00704 10172 20172 39903 40195 50012 60021 70000 00277/ 333 10103 20161 70020 98942 555 94020 92910= (EES17:55I)

1314 R4 BKN 40 OVC 11/2RWF 1306/010 (EES 18:15I)
1333 4 SCT R40 BKN 65 OVC 11/2RW-F 1604/010 (EES 18:35I)
1350 R4 BKN 30 OVC 11/2RW-F 189/65/64/1503/010 (EES 18:52I)
1423 R5 BKN 30 OVC 2F 1705/010 (EES 19:25I)
1450 5 SCT R31 OVC 2F 184/67/64/1504/000/RE00 (EES 19:52I)
1530 5 SCT R13 OVC 2F 3605/000 (HJW 20:39I)
1551 R4 OVC 11/2F 184/66/65/3506/000/ 61025 167/ (HJW 20:52I)
1611 -R R2 OVC 1F 3404/000/F3 (HJW 21:11I)
1633 6 SCT R10 OVC 11/2F 3604/000 (HJW 21:33I)
1653 6 SCT R10 BKN 150 OVC 11/2F 184/65/64/3605/000 (HJW 21:54I)
1730 R4 BKN 10 BKN 150 OVC 1RW-F 0204/007 (HJW 22:40I)
1752 -R R4 BKN 10 BKN 150 OVC 1F 177/64/64/0305/006/F2 RB27E42 (HJW 22:53I)
1853 6 SCT R22 BKN 150 OVC 11/4F 177/64/64/0305/006/ 68725 152/ 67 (HJW 23:54I)

2524 11320 00305 10170 20170 39907 40177 56007 68061 71002 00652/ 333 10194 20161 70004 98925 555 93000= (HJW23:56I)

1941 R0 BKN 22 OVC 11/4F 3604/005 (HJW 00:42I)
1953 R0 OVC 11/4F 174/64/64/3505/005 (HJW 00:54I)
2030 R0 BKN 20 OVC 2F 3505/005 (HJW 01:32I)
2053 R0 BKN 20 OVC 2F 173/64/64/3503/005 (HJW 01:53I)
2117 -R R2 OVC 1F 3005/005/F4 (HJW 02:10I)
2150 -R R2 OVC 1F 170/64/63/3306/004/F2/ 007 167/ (HJW 02:52I)
2250 -R R2 OVC 1F 160/63/62/3507/003/F2 (HJW 03:51I)
2330 -R R3 OVC 1L-F 3110/004/F5 (MAT 04:31I)
2350 -R R3 OVC 1RW-F 167/61/60/3309/003/F5 LB35E32RB32 (MAT 04:50I)

MF1-12B

U.S. DEPARTMENT OF COMMERCE, NOA
NATIONAL WEATHER SERVIC

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 29, 1990 To convert LST to UTC:

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| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0050 | 29.235 | | | 6 | 005 | T |
| 0150 | 29.235 | | | | | |
| 0250 | 29.225 | | | | | |
| 0350 | 29.240 | | | 3 | 002 | |
| 0450 | 29.250 | | | | | |
| 0550 | 29.250 | | | | | |
| 0650 | 29.265 | | | 3 | 020 | |
| 0750 | 29.270 | | | | | |
| 0850 | 29.275 | | | | | T |
| 0951 | 29.280 | | | 2 | 005 | T |
| 1050 | 29.275 | | | | | 0.01 |
| 1150 | 29.265 | | | | | 0.01 |
| 1251 | 29.245 | | | 0 | 012 | 0.06 |
| 1350 | 29.230 | | | | | 0.24 |
| 1450 | 29.215 | | | | | T |
| 1551 | 29.215 | | | 6 | 010 | |
| 1653 | 29.215 | | | | | |
| 1752 | 29.195 | | | | | T |
| 1853 | 29.195 | | | 6 | 007 | |
| 1953 | 29.185 | | | | | |
| 2053 | 29.185 | | | | | |
| 2150 | 29.175 | | | 0 | 007 | |
| 2250 | 29.170 | | | | | |
| 2350 | 29.165 | | | | | 0.01 |

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MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 29, 1990 To convert LST to UTC: 5

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Tot. Sky | Amt | Type | Hgt | Amt | Type | Hgt | 1st. Sum | Amt | Type | Hgt | 2nd. Sum | Amt | Type | Hgt | 3rd. Sum | Amt | Type | Hgt | 4th Sum | Amt | Type | Hgt | Tot. Opq. |
| -16- | -21- | -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | | | | | -36- |
| 0050 | 10 | 3 | AC | 80 | 7 | AS | E130 | 10 | | | | | | | | | | | | | | | | 10 |
| 0150 | 10 | 2 | AC | 80 | 8 | AS | E130 | 10 | | | | | | | | | | | | | | | | 10 |
| 0250 | 10 | 10 | AS | M110 | | | | | | | | | | | | | | | | | | | | 10 |
| 0350 | 10 | 10 | AS | M110 | | | | | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 3 | SC | 60 | 7 | CS | E250 | 10 | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 10 | SC | M5 | | | | | | | | | | | | | | | | | | | | 10 |
| 0650 | 10 | 3 | F | 0 | 7 | ST | M3 | 10 | | | | | | | | | | | | | | | | 10 |
| 0750 | 10 | 3 | F | 0 | 7 | ST | M3 | 10 | | | | | | | | | | | | | | | | 10 |
| 0850 | 10 | 10 | ST | M6 | | | | | | | | | | | | | | | | | | | | 10 |
| 0951 | 10 | 10 | CUFRA | M6 | | | | | | | | | | | | | | | | | | | | 10 |
| 1050 | 10 | 10 | CUFRA | M5 | | | | | | | | | | | | | | | | | | | | 10 |
| 1150 | 10 | 10 | CUFRA | M5 | | | | | | | | | | | | | | | | | | | | 10 |
| 1251 | 10 | 2 | CUFRA | 5 | 3 | AC | 85 | 5 | 5 | AC | M100 | 10 | | | | | | | | | | | | 10 |
| 1350 | 10 | 6 | CUFRA | M4 | 4 | SC | 30 | 10 | | | | | | | | | | | | | | | | 10 |
| 1450 | 10 | 4 | CUFRA | 5 | 6 | SC | M31 | 10 | | | | | | | | | | | | | | | | 10 |
| 1551 | 10 | 10 | ST | M4 | | | | | | | | | | | | | | | | | | | | 10 |
| 1653 | 10 | 2 | ST | 6 | 5 | SC | M10 | 7 | 3 | AC | 150 | 10 | | | | | | | | | | | | 10 |
| 1752 | 10 | 2 | F | 0 | 4 | ST | M6 | 6 | 3 | SC | 10 | 9 | 1 | AC | 150 | 10 | | | | | | | | 10 |
| 1853 | 10 | 3 | ST | 6 | 5 | SC | M22 | 0 | 2 | AS | 150 | 10 | | | | | | | | | | | | 10 |
| 1953 | 10 | 10 | ST | M0 | | | | | | | | | | | | | | | | | | | | 10 |
| 2053 | 10 | 6 | ST | M0 | 4 | SC | 20 | 10 | | | | | | | | | | | | | | | | 10 |
| 2150 | 10 | 2 | F | 0 | 10 | ST | M2 | 10 | | | | | | | | | | | | | | | | 10 |
| 2250 | 10 | 2 | F | 0 | 10 | ST | M2 | 10 | | | | | | | | | | | | | | | | 10 |
| 2350 | 10 | 5 | F | 0 | 5 | SC | M3 | 10 | | | | | | | | | | | | | | | | 10 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp (F) - 47 - | Min. Temp (F) - 48 - | State of Grnd. - 50 - | Soil Temp (F) - 54 - | (Station Pressure) (Computations) Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0849 | | T | 0.0 | | 65 | 63 | | | | |
| 0849 | 1 | 0.01 | 0.0 | 0 | 68 | 63 | | | 29.235 | 0.000 |
| 0649 | 2 | 0.00 | 0.0 | 0 | 63 | 61 | | | 29.255 | +0.010 |
| 1249 | 3 | 0.07 | 0.0 | 0 | 65 | 62 | | | 29.240 | +0.005 |
| 1850 | 4 | 0.25 | 0.0 | 0 | 67 | 63 | | | 29.185 | +0.010 |
| Mid. | | 0.01 | 0.0 | 0 | 64 | 61 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unoltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71 | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SR-SS -78- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Pssbl | (Fastest Wind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67 | 61 | 0.37 | 0.0 | 0 | 12 | NW | 2340 | 10 | 10 | | 0622 | 1813 | 0 | 0 | 12 | 31 | 2330 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| RW- | CONT | B(2235) |
| | | 0830 |
| F | 0230 | CONT |
| RW- | 0850 | 1306 |
| RW | 1306 | 1329 |
| RW- | 1329 | 1400 |
| RW- | 1727 | 1742 |
| L- | 2315 | 2332 |
| RW- | 2332 | CONT |

98. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0040/0630/1409/1845
LAKE TEMP 68//

1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 30, 1990 To convert LST to UTC: 5

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Tim Sky Ceiling Vis Wx Obs Ins Slp Temp Dp Wind Alt/ Remarks Supplemental Coded Data

0850 -1 M3 OVC 1RW-F 164/60/60/3205/002/F3/ 70702 15// 67 (MAT 05:51Z)

524 11216 02207 10156 20156 39073 40164 57007 69951 75200 00S// 333 10194 20156 70006 98921 555 93006= (MAT05:53Z)

0150 -1 M3 OVC 1RW-F 164/60/59/3300/002/F3 (MAT 06:52Z)
0237 M4 OVC 2RW-F 3010/001 (MAT 07:37Z)
0250 M6 BKN 16 OVC 2RW-F 160/59/58/3109/001/ 96009 (MAT 07:50Z)
0353 M6 BKN 22 OVC 5RW-F 164/58/57/3007/002/ 50206 15// (MAT 08:53Z)
0450 M5 BKN 24 OVC 5RW-F 162/58/57/2907/001 (MAT 09:50Z)
0550 M7 BKN 16 BKN 30 OVC 6F 3011/003 (MAT 10:30Z)
0550 7 SCT M13 BKN 29 OVC 5RW-F 173/57/54/2910/024/RE25042 (MAT 10:51Z)
0616 7 SCT M16 BKN 60 OVC 9RW- 2907/005 (MAT 11:19Z)
0633 7 SCT M25 BKN 55 OVC 8RW- 3007/005 (MAT 11:35Z)
0651 20 SCT M55 OVC 8RW- 175/57/55/2907/005/ 21000 15// 57 20042 (MAT 11:54Z)

524 11562 02907 10139 20120 39003 40175 52010 60021 70200 00S// 333 10194 20139 70107 90966 555 93012= (MAT11:54Z)

0750 20 SCT M70 OVC 7RW- 102/55/54/2606/007 (EES 12:51Z)
0907 M16 BKN 70 OVC 7RW- 2906/007 (EES 13:00Z)
0957 M16 BKN 95 OVC 0 109/54/53/3300/009/RE20 (EES 13:53Z)
0917 16 SCT M37 BLK 100 BKN 10 2906/009/WND LGT VRBL (EES 14:16Z)
0951 M16 BKN 100 OVC 15 109/57/52/2809/009/D1NOVC/ 11403 157/ (EES 14:53Z)
1050 M24 BKN 15 192/57/51/3010/010/MDT CU N E (EES 15:51Z)
1131 24 SCT M40 OVC 15 3209/011/D1NOVC MDT CU ALQDS (EES 16:32Z)
1150 M40 BKN 15 194/61/58/3209/011/MDT CU ALQDS (EES 16:51Z)
1251 M36 BKN 20 196/60/50/2909/011/MDT CU ALQDS/ 10703 1200 55 (EES 17:53Z)

524 11600 62909 10156 20100 39903 40196 51007 69901 70200 04200 333 10161 20120 70097 90952 555 40019 93010= (EES17:55Z)

1350 M30 BKN 20 192/61/49/3011/010/MDT CU ALQDS (EES 18:51Z)
1450 34 SCT 75 SCT 20 192/62/46/3109/010/MDT CU N-NE (EES 19:51Z)
1553 35 BCT 75 SCT 20 197/62/46/3200/012/ 302 1130 (MJW 20:54Z)
1650 40 SCT 80 SCT 20 199/62/45/3007/012 (MJW 21:51Z)
1752 40 SCT 80 SCT 20 201/59/47/2404/013 (MJW 22:53Z)
1851 55 SCT 70 202/57/47/2703/013/ 103 1400 63 (MJW 23:52Z)

524 32700 22703 10139 20003 39909 40202 51003 62400 333 10172 20120 70033 555 90100= (MJW23:55Z)

1952 55 SCT 20 204/53/48/2404/013 (MJW 00:53Z)
2053 M55 BKN 20 210/51/48/2204/015 (MJW 01:53Z)
2151 M55 BKN 20 213/52/48/2405/016/ 310 1500 (MJW 02:52Z)
2252 44 BCT 20 213/51/47/2204/016 (MJW 03:52Z)
2350 34 SCT 10 211/48/46/2205/015 (MAT 04:51Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: SEP 30, 1990 To convert LST to UTC:

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| Time -16- | Station Pressure -17- | Dry Bulb -18- | Wet Bulb -19- | (pressure) tend-ency -37- | net chg -38- | Preci-pitation -40- |
|---|---|---|---|---|---|---|
| 0850 | 29.155 | | | 7 | 007 | 0.01 |
| 0150 | 29.155 | | | | | 0.03 |
| 0250 | 29.145 | | | | | 0.03 |
| 0353 | 29.155 | | | 5 | 008 | 0.01 |
| 0450 | 29.150 | | | | | 0.01 |
| 0550 | 29.175 | | | | | T |
| 0651 | 29.185 | | | 2 | 010 | T |
| 0750 | 29.205 | | | | | 0.01 |
| 0852 | 29.225 | | | | | 0.02 |
| 0951 | 29.225 | | | 1 | 014 | |
| 1050 | 29.235 | | | | | |
| 1150 | 29.240 | | | | | |
| 1251 | 29.245 | | | 1 | 007 | |
| 1350 | 29.235 | | | | | |
| 1450 | 29.235 | | | | | |
| 1553 | 29.250 | | | 3 | 002 | |
| 1650 | 29.255 | | | | | |
| 1752 | 29.260 | | | | | |
| 1851 | 29.260 | | | 1 | 003 | |
| 1952 | 29.265 | | | | | |
| 2053 | 29.280 | | | | | |
| 2151 | 29.290 | | | 3 | 010 | |
| 2252 | 29.290 | | | | | |
| 2350 | 29.285 | | | | | |

MF1-10E

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: SEP 20, 1990 To convert LST to UTC: 5

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Tot. Sky | Amt | Type | Hgt | Amt | Type | Hgt | Tot. Sky | Amt | Type | Hgt | 2nd. Sky | Amt | Type | Hgt | 3rd. Sky | Amt | Type | Hgt | 4th Sky | Amt | Type | Hgt | Tot. Opq. |
| -16- | -21- | -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | | | | | -36- |
| 0050 | 10 | 3 | F | 8 | 7 | SC | M3 | 10 | | | | | | | | | | | | | | | | 10 |
| 0150 | 10 | 3 | F | 8 | 7 | SC | M3 | 10 | | | | | | | | | | | | | | | | 10 |
| 0250 | 10 | 7 | SC | M6 | 3 | SC | 16 | 10 | | | | | | | | | | | | | | | | 10 |
| 0350 | 10 | 7 | SC | M6 | 3 | SC | 22 | 10 | | | | | | | | | | | | | | | | 10 |
| 0450 | 10 | 7 | SC | M6 | 3 | SC | 24 | 10 | | | | | | | | | | | | | | | | 10 |
| 0550 | 10 | 3 | SC | 7 | 6 | SC | M13 | 9 | 1 | SC | 29 | 10 | | | | | | | | | | | | 10 |
| 0651 | 10 | 3 | SC | 20 | 7 | SC | M55 | 10 | | | | | | | | | | | | | | | | 10 |
| 0750 | 10 | 3 | CUFRA | 20 | 7 | AC | M70 | 10 | | | | | | | | | | | | | | | | 10 |
| 0852 | 10 | 0 | CU | M16 | 2 | AC | 95 | 10 | | | | | | | | | | | | | | | | 10 |
| 0951 | 10 | 9 | SC | M16 | 1 | AC | 100 | 10 | | | | | | | | | | | | | | | | 10 |
| 1050 | 9 | 9 | CU | M24 | | | | | | | | | | | | | | | | | | | | 9 |
| 1150 | 8 | 8 | CU | M40 | | | | | | | | | | | | | | | | | | | | 8 |
| 1251 | 8 | 8 | CU | M30 | | | | | | | | | | | | | | | | | | | | 8 |
| 1350 | 7 | 7 | CU | M30 | | | | | | | | | | | | | | | | | | | | 7 |
| 1450 | 4 | 2 | CU | 36 | 2 | AC | 75 | 4 | | | | | | | | | | | | | | | | 4 |
| 1553 | 3 | 1 | CU | 35 | 2 | AC | 75 | 3 | | | | | | | | | | | | | | | | 3 |
| 1650 | 1 | 1 | CU | 40 | 0 | AC | 00 | 1 | | | | | | | | | | | | | | | | 1 |
| 1752 | 2 | 2 | CU | 40 | 0 | AC | 00 | 2 | | | | | | | | | | | | | | | | 2 |
| 1851 | 3 | 3 | SC | 55 | | | | | | | | | | | | | | | | | | | | 3 |
| [illegible] | 3 | 3 | SC | 55 | | | | | | | | | | | | | | | | | | | | 3 |
| 2053 | 7 | 7 | SC | M55 | | | | | | | | | | | | | | | | | | | | 7 |
| 2151 | 6 | 6 | SC | M55 | | | | | | | | | | | | | | | | | | | | 6 |
| 2252 | 5 | 5 | SC | 44 | | | | | | | | | | | | | | | | | | | | 5 |
| 2350 | 5 | 5 | SC | 36 | | | | | | | | | | | | | | | | | | | | 5 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) - 44 - | Snow Fall (ins.) - 45 - | Snow Depth (ins.) - 46 - | Max. Temp (F) - 47 - | Min. Temp (F) - 48 - | State of Grnd. - 50 - | Soil Temp (F) - 56 - | (Station Pressure) (Computations) Barograph - 64 - | Corr. -65 - |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0249 | | 0.01 | 0.0 | | 61 | 60 | | | | |
| 0047 | 1 | 0.02 | 0.0 | 0 | 64 | 60 | | | 29.150 | +0.005 |
| 0650 | 2 | 0.00 | 0.0 | 0 | 60 | 57 | | | 29.180 | +0.005 |
| 1250 | 3 | 0.03 | 0.0 | 0 | 61 | 55 | | | 29.240 | +0.005 |
| 1849 | 4 | 0.00 | 0.0 | 0 | 63 | 55 | | | 29.250 | +0.010 |
| Mid. | | 0.00 | 0.0 | 0 | 57 | 48 | | | | |

Summary of Day (Midnight to midnight)

| [TEMPS] Max (F) -66- | Min (F) -67- | 24-hr Precip (ins.) -68- | 24-hr Snow Unmltd (ins.) -69- | Snow Depth (ins.) -70- | [ Peak Wind ] Spd (kts.) -71- | Dir. 72 | Time (LST) 73- | [ Sky Cover ] SK-SS -70- | Mid-Mid -79- | Water Equiv. (ins.) -80- | Sun-Rise | Sun-Set | Total Sun | % Psbl | (Fastest Wind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 48 | 0.12 | 0.0 | 0 | 17 | NW | 1409 | 7 | 7 | | 0623 | 1871 | 330 | 48 | 13 | 30 | 1350 |

Weather & Obstruction to Vision

| Type -82- | began -83- | end -84- |
|---|---|---|
| F | CONT B(0230) | |
| | | B610 |
| RW- | CONT B(2332) | |
| | | 0525 |
| RW- | 0542 | 0820 |

98. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLEAR

Time Checks: 0040/0630/1257/1845

LAKE TEMP 67//FASTEST 1-MIN WIND LAST OF SEVERAL OCCURRENCES//

MFI-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 26, 1990  To convert LST to UTC: 5

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Type Time Sky/Ceiling Vis/Wx+Obstrs Slp/Temp/Dp/Wind/Alt/ RemarksSupplementalCodedData

SA 0850 23 SCT R46 OVC 1[illegible] 20[illegible]/42/32/0[illegible]/0[illegible]/[illegible] 30502 [illegible] SF (LN 05:502)

72524 32674 70233 [illegible] 2222 29502 4[illegible] 55075 6[illegible] 70101 8[illegible] 333 10102 20020 25555 92[illegible] 555 92[illegible] (LN[illegible]:512)

SA 0850 R36 OVC 20 207/41/32/3[illegible]/0[illegible]/[illegible]VC (LN 06:502)
SA 0850 20 SCT R55 OVC 20 207/41/32/3[illegible]/0[illegible]/[illegible] 50273 (LN 07:502)
SA 0850 R35 BKN 50 BKN 20 207/41/32/3[illegible]/0[illegible]/ SRE 1500 (LN 08:512)
SA 0850 R35 BKN 20 207/42/32/3507/013 (LN 09:512)
SA 0850 20 SCT R48 BKN 20 207/41/32/3[illegible]/013 (LN 10:502)
SA 0850 20 SCT R48 OVC 20 207/41/32/0103/014/[illegible]RAPVC/ 20E 15// 4F (LN 11:502)

72524 32560 70100 10050 20000 39914 40712 52000 87500 333 10100 20444 555 92612+ (LN11:512)

SA 0850 26 SCT R50 BKN 20 207/41/32/3507/015/RAJ E (BF 12:502)
SA 0850 25 SCT R48 BKN 20 207/42/33/3010/015/RAJ E (BF 13:502)
SA 0850 24 SCT R36 BKN 20 207/42/34/3200/016/ 207 1500 (BF 14:502)
SF 0840 20 SCT R42 OVC 20[illegible]- 3409/017/[illegible]30 (BF 15:412)
RS 0850 26 SCT R44 BKN 60 BKN 20 221/43/33/0210/017/[illegible]30E47 (BF 15:512)
SA 0950 33 SCT R48 BKN 20 220/45/30/3413/017/RAJ NE-E-SE (BF 16:502)
SA 0950 30 SCT R42 BKN 20 219/44/31/0103/016/RAJ SE/ 40000 1500 4F (BF 17:512)

72524 11500 70105 10047 21002 35920 40215 54000 65501 71602 87500 333 10076 20444 50530 555 92610+ (BF17:512)

SA 0950 27 SCT R46 OVC 20 221/44/32/0105/017 (BF 18:502)
SA 0950 30 SCT R44 BKN 20 221/45/31/3507/017 (BF 19:502)
SA 0951 R40 BKN 20 221/44/31/3507/017/ 102 1500 (EES 20:522)
SA 0950 R40 BKN 20 221/44/31/3407/017 (EES 21:512)
SA 0950 R39 BKN 20 225/42/30/3[illegible]/018 (EES 22:512)
SA 0951 R35 BKN 20 220/42/31/3[illegible]/015/ 305 1500 4F (EES 23:512)

72524 32680 42[illegible] 10051 21002 35951 40320 53000 [illegible]500 333 10076 20444 555 92722+ (EES23:512)

SA 0950 R35 BKN 20 220 42/31/3[illegible]/015 (EES 00:502)
SA 0950 CLR 20 225/[illegible]/31/[illegible]/015/FE+ SC (EES 01:502)
SA 0951 CLR 20 221/[illegible]/[illegible]/015/ 400 (EES 02:512)
SA 0950 CLR 20 225/34/31/3500 R15 (EES 03:512)
SA 0950 CLR 20 [illegible]/30/3[illegible]/016 (LN 04:502)

MFI-10B

U.S. DEPARTMENT OF COMMERCE, [illegible]
NATIONAL WEATHER SER[illegible]

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 26, 1990 To convert LST to UT[illegible]

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| Time (LST) | Station Pressure (in) | Sky Cvr (tenths) | Wxt Cvr (tenths) | (pressure) Tendency (mb) | Chg (mb) | Freezing Precipitation (in) |
|---|---|---|---|---|---|---|
| 0750 | 29.270 | | | 5 | R05 | |
| 0755 | 29.270 | | | | | |
| 0800 | 29.250 | | | | | |
| 0805 | 29.250 | | | 5 | R02 | |
| 0810 | 29.260 | | | | | |
| 0815 | 29.260 | | | | | |
| 0820 | 29.275 | | | 2 | R08 | |
| 0825 | 29.250 | | | | | |
| 0830 | 29.250 | | | | | |
| 0835 | 29.250 | | | | | |
| 0840 | 29.295 | | | 2 | R07 | |
| 0845 | 29.300 | | | | | T |
| 0850 | 29.300 | | | | | |
| 0855 | 29.300 | | | | | |
| 0900 | 29.295 | | | 4 | R08 | |
| 0905 | 29.300 | | | | | |
| 0910 | 29.300 | | | | | |
| 0915 | 29.300 | | | 1 | R02 | |
| 0920 | 29.300 | | | | | |
| 0925 | 29.310 | | | | | |
| 0930 | 29.325 | | | 3 | R08 | |
| 0935 | 29.325 | | | | | |
| 0940 | 29.320 | | | | | |
| 0945 | 29.325 | | | 4 | R08 | |
| 0950 | 29.320 | | | | | |
| 0955 | 29.310 | | | | | |

1-10H

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 26, 1990 To convert LST to UTC: 5

[ CLOUD LAYERS AND OBSCURING PHENOMENA ]

| | [ FIRST ] | | | | [ SECOND ] | | | | [ THIRD ] | | | | [ FOURTH ] | | | | [ FIFTH ] | | | | [ SIXTH ] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tot. | | | | | | | Tot. | | | | Tot. | | | | Tot. | | | | Tot. | | | | Tot. | |
| -01- | Sky | Amt | Type | Hgt | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Cig. | |
| | -21- | -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | | | | | -36- | |
| 12 | 10 | 4 | SC | 33 | 4 | SC | M46 | 10 | | | | | | | | | | | | | | | | 10 | |
| 13 | 10 | 10 | SC | M35 | | | | | | | | | | | | | | | | | | | | 10 | |
| 12 | 10 | 5 | SC | 26 | 5 | SC | M50 | 10 | | | | | | | | | | | | | | | | 10 | |
| 12 | 9 | 8 | SC | M36 | 1 | SC | 50 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 7 | 7 | SC | M30 | | | | | | | | | | | | | | | | | | | | 7 | |
| 12 | 9 | 4 | SC | 28 | 5 | SC | M48 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 10 | 3 | SC | 28 | 7 | SC | M40 | 10 | | | | | | | | | | | | | | | | 10 | |
| 12 | 9 | 4 | SC | 26 | 5 | SC | M50 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 9 | 4 | SC | 25 | 5 | SC | M40 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 9 | 4 | SC | 24 | 5 | SC | M36 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 9 | 5 | SC | 26 | 3 | SC | M44 | 8 | 1 | SC | 48 | 9 | | | | | | | | | | | | 9 | |
| 12 | 7 | 2 | SC | 33 | 5 | SC | M48 | 7 | | | | | | | | | | | | | | | | 7 | |
| 12 | 9 | 4 | SC | 30 | 5 | SC | M42 | 9 | | | | | | | | | | | | | | | | 9 | |
| 12 | 10 | 4 | SC | 27 | 6 | SC | M46 | 10 | | | | | | | | | | | | | | | | 10 | |
| 12 | 8 | 3 | SC | 30 | 5 | SC | M44 | 8 | | | | | | | | | | | | | | | | 5 | |
| 11 | 8 | 8 | SC | M48 | | | | | | | | | | | | | | | | | | | | 8 | |
| 10 | 9 | 9 | SC | M48 | | | | | | | | | | | | | | | | | | | | 9 | |
| 11 | 8 | 8 | SC | M39 | | | | | | | | | | | | | | | | | | | | 8 | |
| 11 | 8 | 8 | SC | M39 | | | | | | | | | | | | | | | | | | | | 8 | |
| 12 | 6 | 6 | SC | M39 | | | | | | | | | | | | | | | | | | | | 6 | |
| 10 | 8 | 8 | SC | 30 | | | | | | | | | | | | | | | | | | | | 8 | |
| 11 | 8 | | | | | | | | | | | | | | | | | | | | | | | 8 | |
| 10 | 8 | | | | | | | | | | | | | | | | | | | | | | | 8 | |
| 10 | 8 | | | | | | | | | | | | | | | | | | | | | | | 8 | |

Synoptic Observations

| Time (LST) | No. | Precip. (ins.) | Snow Fall (ins.) | Snow Depth (ins.) | Max. Temp (F) | Min. Temp (F) | State of Grnd. | Soil Temp (F) | (Station Pressure) (Computations) Barograph | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|
| -42- | -43- | -44- | -45- | -46- | -47- | -48- | -50- | -51- | -49- | -45- |
| Mid to | | | | | | | | | | |
| 0047 | | 0.00 | 0.0 | | 43 | 41 | | | | |
| 0247 | 1 | T | 0.0 | 0 | 44 | 41 | | | 29.260 | -0.010 |
| 0546 | 2 | 0.00 | 0.0 | 0 | 42 | 40 | | | 29.285 | -0.010 |
| 1245 | 3 | T | T | 0 | 48 | 43 | | | 29.315 | -0.010 |
| 1530 | 4 | 0.00 | 0.0 | 0 | 49 | 43 | | | 29.340 | -0.015 |
| Tot. | | 0.00 | 0.0 | 0 | 49 | 33 | | | | |

Summary of Day (Midnight to Midnight)

| (DEGRS) Max (F) | Min (F) | 24-Hr Precip (ins.) | Snow Unofficial (ins.) | Snow Depth (ins.) | (Fast Wind) Spd (mph) | Dir. | Time (LST) | (Sky Cover) SR-SS | Mid-Mid | Water Equiv. (ins.) | Sun-Rise | Sun-Set | Total Sun | % Poss | (Fastest Wind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -64- | -65- | -66- | -67- | -68- | -69- | | -70- | -71- | 72 | 73- | -78- | -79- | -80- | | | | |
| 46 | 33 | T | T | 0 | 19 | N | 0305 | 9 | 7 | | 0652 | 1731 | 54 | 0 | 15 | 24 | 1150 |

Weather & Obstruction to Vision

| Type | began | end |
|---|---|---|
| -82- | -83- | -84- |
| IFN- | 1836 | 1847 |

90. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0024/1245/1517/

LAKE TEMP 48 DEGREES/// MELTED AS IT FELL//

MF1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 27, 1990  To convert LST to UTC: 5

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Type Time SkyCeiling VsbyWxAObsns SlpTemp/DpTemp/Wind/Vis/ PeakWxSupplements.CodeData

SA 0050 CLR 20 229/31/26/2204/019 (LN 06:50Z)

72524 32982 03104 10020 21013 39929 40229 50002 333 10220 20220 39999 555 92720+ (LN05:51Z)

SA 0150 CLR 20 235/31/26/2204/019 (LN 06:50Z)
SF 0250 CLR 20 235/31/26/2204/020+ 5E254 (LN 07:50Z)
SA 0350 CLR 20 235/31/26/2104/020/ 285 (LN 06:50Z)
SF 0450 CLR 20 240/31/26/2205/022 (LN 06:50Z)
SA 0550 CLR 20 240/33/29/2105/022 (LN 10:50Z)
SA 0650 250 SCT 15 236/34/29/2107/021/FEW ACC 002 1072 29 (LN 11:50Z)

72524 32974 12107 10011 21017 39936 40236 50002 01072 333 10070 21017 555 92712+ (LN11:51Z)

SA 0750 120 SCT 250 SCT 15 236/36/30/2109/021 (DF 12:50Z)
SA 0850 120 SCT 250 -SCT 15 229/41/32/2212/019 (DF 13:52Z)
SA 0950 250 -SCT 15 229/45/33/2112/019/ 007 1009 (DF 14:50Z)
SA 1050 250 -SCT 15 216/49/32/2012/015 (DF 15:51Z)
SA 1150 250 -SCT 15 203/52/33/2117/012 (DF 16:50Z)
SA 1250 120 SCT 250 -BKN 15 184/54/32/2016/006/ 742 1036 29 (DF 17:49Z)

72524 32974 72016 10122 20080 39007 40164 57042 01036 333 10120 21017 555 44016 92710+ (DF17:51Z)

SA 1350 120 SCT 250 SCT 15 172/56/31/2010/003 (DF 18:50Z)
SA 1450 E250 BKN 15 165/56/30/2117/002/FEW AC (DF 19:50Z)
SA 1551 130 SCT 250 -BKN 20 147/56/28/1519625/995/ 734 1050 (EES 20:52Z)
SA 1650 90 SCT E130 BKN 20 140/56/28/2015/993 (EES 21:51Z)
SA 1750 NCS BKN 85 OVC 20 130/55/28/2111/993 (EES 22:52Z)
SA 1851 NSS OVC 20 143/56/27/2113/994/ 503 1577 57 (EES 23:53Z)

72524 32980 02313 10133 21020 39040 40143 50002 06577 333 10139 21017 555 53002+ (EES00:49Z)

SA 1950 40 SCT M100 OVC 20 139/55/29/2111/992/FRONTAL (EES 02:50Z)
SA 2050 55 SCT M70 OVC 20 132/54/31/2110/991/FRONTAL (EES 03:52Z)
SA 2151 NSS BKN 75 OVC 20 125/55/33/2310/990/ 715 1577 (EES 04:50Z)
SA 2250 NSS OVC 20 132/54/37/2014522/995 (EES 05:51Z)
SA 2350 41 SCT M60 OVC 20 129/52/37/3112/994 (LN 04:50Z)

MF1-10B

U.S. DEPARTMENT OF COMMERCE, N
NATIONAL WEATHER SERV

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 27, 1990 To convert LST to UTC

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| Time (LST) | Station Pressure (in) | Sky Cover (%) | Wet Bulb (°F) | Temperature (°F) | Dew Point (°F) | Relative Humidity (%) |
|---|---|---|---|---|---|---|
| 0050 | 29.300 | | | 5 | 022 | |
| 0150 | 29.300 | | | | | |
| 0250 | 29.300 | | | | | |
| 0350 | 29.335 | | | 2 | 025 | |
| 0450 | 29.350 | | | | | |
| 0550 | 29.350 | | | | | |
| 0650 | 29.340 | | | 0 | 022 | |
| 0750 | 29.345 | | | | | |
| 0850 | 29.320 | | | | | |
| 0950 | 29.320 | | | 0 | 027 | |
| 1050 | 29.205 | | | | | |
| 1150 | 29.250 | | | | | |
| 1250 | 29.195 | | | 7 | 042 | |
| 1350 | 29.160 | | | | | |
| 1450 | 29.140 | | | | | |
| 1551 | 29.050 | | | 7 | 036 | |
| 1650 | 29.070 | | | | | |
| 1750 | 29.065 | | | | | |
| 1851 | 29.080 | | | 5 | 023 | |
| 1950 | 29.070 | | | | | |
| 2050 | 29.050 | | | | | |
| 2151 | 29.035 | | | 7 | 015 | |
| 2250 | 29.055 | | | | | |
| 2350 | 29.075 | | | | | |

F1-10B

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Surface Weather Observations

Station: WSFO, CLEVELAND, OH
Date: OCT 27, 1990 To convert LST to UTC: 5

( CLOUD LAYERS AND OBSCURING PHENOMENA )

| | ( FIRST ) | | | | ( SECOND ) | | | | ( THIRD ) | | | | ( FOURTH ) | | | | ( FIFTH ) | | | | ( SIXTH ) | | | | Tot. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tot. | | | | | | | | 1st. | | | | 2nd. | | | | 3rd. | | | | 4th | | | | Tot. |
| Hr | Sky | Amt | Type | Hgt | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | Sky | Amt | Type | Hgt | | Opq. |
| 6- | -21- | -22- | -23- | -24- | -25- | -26- | -27- | -28- | -29- | -30- | -31- | -32- | -33- | -34- | -35- | | | | | | | | | | -36- |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 1 | 8 | AC | 150 | 1 | CI | 250 | 1 | | | | | | | | | | | | | | | | | 1 |
| 50 | 1 | 1 | AC | 120 | 8 | CI | 250 | 1 | | | | | | | | | | | | | | | | | 1 |
| 50 | 2 | 1 | AC | 120 | 1 | CI | 250 | 2 | | | | | | | | | | | | | | | | | 1 |
| 50 | 2 | 2 | CC | 250 | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 2 | 2 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 1 |
| 50 | 5 | 5 | CI | 250 | | | | | | | | | | | | | | | | | | | | | 2 |
| 50 | 9 | 1 | AC | 120 | 8 | CI | 250 | 9 | | | | | | | | | | | | | | | | | 3 |
| 50 | 3 | 1 | AC | 120 | 2 | CI | 250 | 3 | | | | | | | | | | | | | | | | | 2 |
| 50 | 9 | 8 | AC | 120 | 9 | CS | E250 | 9 | | | | | | | | | | | | | | | | | 5 |
| 50 | 9 | 2 | AC | 130 | 9 | CS | 250 | 9 | | | | | | | | | | | | | | | | | 4 |
| 50 | 8 | 3 | AC | 90 | 5 | AC | E130 | 8 | | | | | | | | | | | | | | | | | 7 |
| 50 | 10 | 7 | AC | M65 | 3 | AC | 85 | 10 | | | | | | | | | | | | | | | | | 10 |
| 50 | 10 | [illegible] | SC | M55 | | | | | | | | | | | | | | | | | | | | | 8 |
| 50 | 10 | 4 | SC | 40 | 6 | AC | M100 | 10 | | | | | | | | | | | | | | | | | 10 |
| 50 | 10 | 2 | SC | 55 | 8 | AC | M70 | 10 | | | | | | | | | | | | | | | | | 10 |
| 50 | 10 | 6 | SC | M55 | 4 | AC | 75 | 10 | | | | | | | | | | | | | | | | | 10 |
| 50 | 10 | 10 | SC | M39 | | | | | | | | | | | | | | | | | | | | | 10 |
| 50 | 10 | 1 | SC | 41 | 9 | SC | M40 | 10 | | | | | | | | | | | | | | | | | 10 |

Synoptic Observations

| Time (LST) | No. | Precip. (ins.) | Snow Fall (ins.) | Snow Depth (ins.) | Max. Temp (F) | Min. Temp (F) | State of Grnd. | Soil Temp (F) | (Station Pressure) (Computations) Barograph | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|
| -42- | -43- | -44- | -45- | -46- | -47- | -48- | -50- | -56- | -49- | -65- |
| Mid to | | | | | | | | | | |
| 0957 | | 0.00 | 0.0 | | 33 | 32 | | | | |
| 0957 | 1 | 0.00 | 0.0 | 0 | 43 | 32 | | | 29.335 | -0.015 |
| 0[illegible] | 2 | 0.00 | 0.0 | 0 | 34 | 29 | | | 29.360 | -0.022 |
| 1045 | 3 | 0.00 | 0.0 | 0 | 35 | 34 | | | 29.215 | -0.022 |
| 1[illegible] | 4 | 0.00 | 0.0 | 0 | 37 | 34 | | | 29.120 | -0.020 |
| P.M. | | 0.00 | 0.0 | 0 | 36 | 32 | | | | |

Summary of Day (Midnight to Midnight)

| (TEMPS) Max (F) | Min (F) | 24-Hr Precip (ins.) | 24-Hr Snow Water (ins.) | Snow Depth (ins.) | 1 Fastest Mile Spd (mph) | Dir. | Time (LST) | (Sky Cover) 50-55 | Weather Obstruc. | Water Equiv. (ins.) | Sun Rise | Sun Set | Total Sun | % Poss | (Fastest Mind) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -40- | -47- | -45- | -46- | -70- | -71 | 72 | 73- | -76- | -75- | -80- | | | | | | | |
| 57 | 25 | 0.00 | 0.0 | 0 | 30 | S | 1624 | 5 | 5 | | 0653 | 1729 | 469 | 74 | 22 | 19 | 1551 |

Weather & Obstruction to Vision
Type Began end
-82- -83- -84-

<<<< None Logged >>>>

90. Remarks, Notes & Miscellaneous Phenomena
Character of Sunrise: CLEAR Character of Sunset: CLOUDY

Time Check: 0244/1021/1946/
LAKE TEMP 48 DEGREES//

F1-10A

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 28, 1990  To convert LST to UTC: 5

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pr Time Sky&Ceiling Vis&WX&Obstns Slp/Temp/Dp/Wind/Alt/ Remarks&SupplementalCodedData

0950 M42 OVC 10 144/49/37/2611/952/ 215 15// 57 (LN 05:502)

524 22668 02611 10254 20228 39951 49149 52015 885// 333 10239 20117 70000 555 92828+ (LN:05:513)

0550 M38 BKN 45 OVC 15 145/46/36/2711/952/ 217 (LN 06:502)
0650 M2 SCT M33 BKN 55 OVC 10 144/44/32/2610/981/ 222/ 9 9465 (LN 07:502)
0750 38 SCT M38 OVC 15 145/45/34/2611/982/ 22482 15// (LN 08:502)
0850 48 SCT M35 BKN 20 146/45/34/2611/985 (LN 09:502)
0950 M38 BKN 20 147/44/32/2610822/987 (LN 10:502)
1050 34 SCT M35 BKN 20 142/44/31/2809/989/ 222 1500 44 (LN 11:512)

524 31682 72009 10147 21096 39957 48152 52022 70262 67500 333 10139 20147 59950 555 92812+ (LN11:512)

EDR 0850 34 SCT M35 BKN 20 142/44/31/3809/989/ 22200 1500 44 (LN 11:512)
0750 M38 OVC 20 137/44/32/3810/810/V1R6A SE-S-SW 8INOVC (LN 12:502)
0850 M43 BKN 20 211/43/29/3108/815/AWU SE (DF 13:502)
0950 M44 BKN 20 210/43/25/3009/817/ 225 1500 (DF 14:502)
1050 M46 OVC 20 225/44/26/3206/819/P1NOVC OVND (DF 15:502)
1150 M45 OVC 20 229/44/26/3112/820 (DF 16:502)
1250 33 SCT M50 OVC 20 233/44/27/3110/821/ 214 15// 42 (DF 17:502)

24 32680 03110 10147 21020 39936 48233 52014 885// 333 10094 20056 555 44815 92810+ (DF17:512)

1350 M46 OVC 20 237/43/26/3106/822 (DF 18:522)
1450 M42 OVC 20 242/44/27/3010/823 (DF 19:502)
1550 M46 OVC 20 246/43/25/3006/824/ 212 15// (DF 20:502)
1650 M43 OVC 20 246/43/27/2907/825 (EES 21:512)
1750 M43 OVC 20 254/43/27/2906/826 (EES 22:512)
1850 M45 OVC 20 257/43/25/3207/826/A1NOVC/ 210 15// 44 (EES 23:502)

24 32682 03207 10146 21017 39958 48257 52010 885// 333 10067 20056 555 92988+ (EES23:502)

1950 M45 OVC 20 255/43/23/2508/826 (EES 00:512)
2050 M40 OVC 20 261/43/22/2508/830 (EES 01:512)
2150 33 SCT M42 OVC 20 272/43/20/2508/832/ 214 15// (EES 02:502)
2250 M37 OVC 20 275/43/18/2505/833 (EES 03:512)
2350 M38 OVC 20 275 49 20/2504/832 (EES 04:502)

F1-10B

U.S. DEPARTMENT OF COMMERCE, NOA
NATIONAL WEATHER SERVIC

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Date: OCT 28, 1990 To convert LST to UTC:

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| Time | Station Pressure | Sea Level | Net Tend | Precip (Inches) | | | Precip Indicator |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| 0050 | 29.090 | | | 3 | 004 | | |
| 0150 | 29.095 | | | | | | |
| 0250 | 29.105 | | | | | 1 | |
| 0350 | 29.160 | | | 2 | 004 | | |
| 0450 | 29.182 | | | | | | |
| 0550 | 29.210 | | | | | | |
| 0650 | 29.225 | | | 2 | 002 | | |
| 0750 | 29.242 | | | | | | |
| 0850 | 29.268 | | | | | | |
| 0950 | 29.300 | | | 2 | 005 | | |
| 1050 | 29.320 | | | | | | |
| 1150 | 29.330 | | | | | | |
| 1250 | 29.340 | | | 2 | 010 | | |
| 1350 | 29.350 | | | | | | |
| 1450 | 29.365 | | | | | | |
| 1550 | 29.375 | | | 2 | 012 | | |
| 1650 | 29.380 | | | | | | |
| 1750 | 29.395 | | | | | | |
| 1850 | 29.405 | | | 2 | 010 | | |
| 1950 | 29.410 | | | | | | |
| 2050 | 29.430 | | | | | | |
| 2150 | 29.445 | | | 2 | 014 | | |
| 2250 | 29.455 | | | | | | |
| 2350 | 29.455 | | | | | | |

MF 1-10D

U.S. DEPARTMENT OF COMMERCE, NOAA
NATIONAL WEATHER SERVICE

Station: WSFO, CLEVELAND, OH
Surface Weather Observations  Dates: OCT 28, 1990 To convert LST to UTC: 5

( CLOUD LAYERS AND OBSCURING PHENOMENA )

| Tot. Cov | Sky Cov | Amt | Type | Hgt | First Amt | Second Type | Second Hgt | Sum Amt | Third Type | Third Hgt | Sum Amt | Fourth Type | Fourth Hgt | Sum Amt | Fifth Type | Fifth Hgt | Sum Amt | Sixth Type | Sixth Hgt | Tot. Obs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1A- | -1B- | -1C- | -1D- | -1E- | -1F- | -1G- | -1H- | -1J- | -1K- | -1L- | -1M- | -1N- | -1O- | -1P- | -1Q- | -1R- | -1S- | -1T- | -1U- | -1V- |
| 0250 | 10 | 10 | SC | 042 | | | | | | | | | | | | | | | | 10 |
| 0350 | 10 | 7 | SC | 038 | 3 | SC | 45 | 10 | | | | | | | | | | | | 10 |
| 0450 | 10 | 3 | SC | 22 | 3 | SC | 035 | 6 | 4 | SC | 55 | 10 | | | | | | | | 10 |
| 0550 | 10 | 3 | SC | 36 | 7 | SC | 040 | 10 | | | | | | | | | | | | 10 |
| 0650 | 9 | 3 | SC | 40 | 6 | SC | 055 | 9 | | | | | | | | | | | | 9 |
| 0750 | 9 | 9 | SC | 050 | | | | | | | | | | | | | | | | 9 |
| 0850 | 9 | 3 | SC | 34 | 6 | SC | 055 | 9 | | | | | | | | | | | | 9 |
| 0950 | 10 | 10 | SC | 050 | | | | | | | | | | | | | | | | 10 |
| 1050 | 9 | 9 | SC | 043 | | | | | | | | | | | | | | | | 9 |
| 1150 | 8 | 8 | SC | 044 | | | | | | | | | | | | | | | | 8 |
| 1250 | 10 | 10 | SC | 040 | | | | | | | | | | | | | | | | 10 |
| 1350 | 10 | 10 | SC | 055 | | | | | | | | | | | | | | | | 10 |
| 1450 | 10 | 3 | SC | 33 | 7 | SC | 050 | 10 | | | | | | | | | | | | 10 |
| 1550 | 10 | 10 | SC | 046 | | | | | | | | | | | | | | | | 10 |
| 1650 | 10 | 10 | SC | 047 | | | | | | | | | | | | | | | | 10 |
| 1750 | 10 | 10 | SC | 046 | | | | | | | | | | | | | | | | 10 |
| 1850 | 10 | 10 | SC | 041 | | | | | | | | | | | | | | | | 10 |
| 1950 | 10 | 10 | SC | 043 | | | | | | | | | | | | | | | | 10 |
| 2050 | 10 | 10 | SC | 045 | | | | | | | | | | | | | | | | 10 |
| 2150 | 10 | 10 | SC | 042 | | | | | | | | | | | | | | | | 10 |
| 2250 | 10 | 10 | SC | 040 | | | | | | | | | | | | | | | | 10 |
| 2350 | 10 | 2 | SC | 37 | 8 | SC | 042 | 10 | | | | | | | | | | | | 10 |
| | 10 | 10 | SC | 037 | | | | | | | | | | | | | | | | 10 |
| | 10 | 10 | SC | 038 | | | | | | | | | | | | | | | | 10 |

Synoptic Observations

| Time (LST) -42- | No. -43- | Precip. (ins.) -44- | Snow Fall (ins.) -45- | Snow Depth (ins.) -46- | Max. Temp (°F) -47- | Min. Temp (°F) -48- | State of Grnd. -49- | Soil Temp (°F) -50- | (Station Pressure) (Computations) Barograph -51- | Corr. -52- |
|---|---|---|---|---|---|---|---|---|---|---|
| Mid to | | | | | | | | | | |
| 0247 | | 0.00 | 0.0 | | 50 | 45 | | | | |
| 0247 | 1 | 0.00 | 0.0 | 0 | 50 | 45 | | | 25.180 | -0.010 |
| 0346 | 2 | T | 0.0 | 0 | 45 | 44 | | | 25.140 | -0.015 |
| 0545 | 3 | 0.00 | 0.0 | 0 | 44 | 43 | | | 25.255 | -0.015 |
| 1050 | 4 | 0.00 | 0.0 | 0 | 44 | 43 | | | 25.400 | -0.015 |
| Mid. | | 0.00 | 0.0 | 0 | 44 | 42 | | | | |

Summary of Daily Weather Observations

| (TEMP/DEW) Max. (°F) -66- | Min. (°F) -67- | 24-Hr Precip (ins.) -68- | Snow Water Equiv. (ins.) -69- | Snow Depth (ins.) -70- | Fog Type -71- | Hail Type -72- | Thdr Type -73- | Sky Cover 5-55 -74- | Wind (MPH) Mean -75- | Water Equiv. (ins.) -76- | Snow Fall | Snow Fall | Total Sun | Sun Pct | (Fastest Mile) Spd (mph) | Dir. | Time (LST) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52 | 42 | T | 0.0 | 0 | 20 | N | 0234 | 10 | 10 | | 0454 | 1720 | 26 | 4 | 15 | 27 | 0150 |

Weather & Obstruction to Vision

| Type -62- | Began -63- | end -64- |
|---|---|---|
| RA- | 0227 | 0246 |

9E. Remarks, Notes & Miscellaneous Phenomena

Character of Sunrise: CLOUDY  Character of Sunset: CLOUDY

Time Check: 0212/1240//
LAKE TEMP 59 DEGREES//

# APPENDIX K - AIR

## RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING

## NEASE CHEMICAL COMPANY SITE SALEM, OHIO

TABLE A2
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-01-1-004 | RNS-A0-01-1-031 | RNS-A0-01-1-034 | RNS-A0-01-1-028 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Outside Sample | St. 1 Rep. Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.39 | 0.00 | 0.00 | 0.00 |
| Date of Sample Collection | | 9/13/90 | 9/13/90 | 9/13/90 | 9/13/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | ND | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | 9.7 | ND | ND | ND |
| Trichloroethene | 270 | ND | ND | ND | ND |
| 1,2-Dichloropropane | 350 | ND | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND | ND |
| Chlorobenzene | 350 | ND | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | ND | ND |
| Total Xylenes | 435 | ND | ND | ND | ND |
| Styrene | 215 | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ng 7 | ND | ND | ND | ND |

[1] Results are presented in ~~ng/~~$m^3$ except for the OSHA time weighted average which are in $mg/m^3$.
[2] This table presents only those compounds identified by the analysis.
[3] Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not Detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3406 | RNS-A0-02-3416 | RNS-A0-02-3404 | RNS-A0-03-1-018 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Outside Sample | St. 2 Inside Sample of 3406 | St. 2 Rep. Outside Sample | St. 2 Rep. Inside Sample of 3404 |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.39 | 0.39 |
| Date of Sample Collection | | 9/28/90 | 9/28/90 | 9/28/90 | 9/28/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | UL | UL | UL | UL |
| Carbon Tetrachloride | 12.6 | 15.6J | UL | 16.7J | UL |
| Trichloroethene | 270 | UL | UL | UL | UL |
| 1,2-Dichloropropane | 350 | UL | UL | UL | UL |
| Bromodichloroethane | -- | UL | UL | UL | UL |
| cis-1,2-Dichloropropene | -- | UL | UL | UL | UL |
| trans-1,2-Dichloropropene | -- | UL | UL | UL | UL |
| 1,1,2-Trichloroethane | 45 | UL | UL | UL | UL |
| Dibromochloromethane | -- | UL | UL | UL | UL |
| Chlorobenzene | 350 | UL | UL | UL | UL |
| Ethylbenzene | 435 | UL | UL | UL | UL |
| Total Xylenes | 435 | 7.5J | UL | UL | UL |
| Styrene | 215 | UL | UL | UL | UL |
| Bromoform | 5 | UL | UL | UL | UL |
| 1,1,2,2-Tetrachloroethane | 7 | UL | UL | UL | UL |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3413 | RNS-A0-02-3408 | RNS-A0-02-3442 | RNS-A0-02-3441 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | Trip Blank | St. 2 Outside Sample | St. 2 Inside Sample of 3442 |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.00 | 0.77 | 0.77 |
| Date of Sample Collection | | 9/28/90 | 9/28/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | UL | UL | ND | ND |
| Carbon Tetrachloride | 12.6 | UL | UL | 14.3 | ND |
| Trichloroethene | 270 | UL | UL | ND | ND |
| 1,2-Dichloropropane | 350 | UL | UL | ND | ND |
| Bromodichloroethane | -- | UL | UL | ND | ND |
| cis-1,2-Dichloropropene | -- | UL | UL | ND | ND |
| trans-1,2-Dichloropropene | -- | UL | UL | ND | ND |
| 1,1,2-Trichloroethane | 45 | UL | UL | ND | ND |
| Dibromochloromethane | -- | UL | UL | ND | ND |
| Chlorobenzene | 350 | UL | UL | 15.6 | ND |
| Ethylbenzene | 435 | UL | UL | ND | ND |
| Total Xylenes | 435 | UL | UL | 15.6 | ND |
| Styrene | 215 | UL | UL | ND | ND |
| Bromoform | 5 | UL | UL | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | UL | UL | ND | ND |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3433 | RNS-A0-02-3440 | RNS-A0-02-3432 | RNS-A0-02-3436 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Dup. Outside Sample | St. 2 Inside Sample of 3433 | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.00 | 0.00 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | ND | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | 12.2 | ND | ND | ND |
| Trichloroethene | 270 | ND | ND | ND | ND |
| 1,2-Dichloropropane | 350 | ND | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND | ND |
| Chlorobenzene | 350 | 12.6 | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | ND | ND |
| Total Xylenes | 435 | 10.5 | ND | ND | ND |
| Styrene | 215 | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-1-024 | RNS-A0-03-1-023 | RNS-A0-03-1-026 | RNS-A0-03-1-025 |
|---|---|---|---|---|---|
| Sample Location | | St. 3 Outside Sample | St. 3 Inside Sample | St. 3 Dup. Outside Sample | St. 3 Inside Sample of 026 |
| Volume Air Sampled ($m^3$) | | 0.78 | 0.78 | 0.77 | 0.77 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | ND | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | ND | ND | 14.1J | ND |
| Trichloroethene | 270 | ND | ND | ND | ND |
| 1,2-Dichloropropane | 350 | ND | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND | ND |
| Chlorobenzene | 350 | ND | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | ND | ND |
| Total Xylenes | 435 | ND | ND | ND | ND |
| Styrene | 215 | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-1-007 | RNS-A0-03-1-011 | RNS-A0-04-3412 | RNS-A0-04-3407 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | Trip Blank | St. 4 Outside Sample | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.00 | 0.77 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloroform | 9.78 | ND | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | ND | ND | 15.6 | ND |
| Trichloroethene | 270 | ND | ND | 12.3 | ND |
| 1,2-Dichloropropane | 350 | ND | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND | ND |
| Chlorobenzene | 350 | ND | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | 7.1 | ND |
| Total Xylenes | 435 | ND | ND | 24.7 | ND |
| Styrene | 215 | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-04-3410 | RNS-A0-05-3411 | RNS-A0-05-3409 | RNS-A0-05-3901 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | St. 5 Outside Sample | St. 5 Rep. Outside Sample | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.39 | 0.00 |
| Date of Sample Collection | | 9/29/90 | 9/27/90 | 9/27/90 | 9/27/90 |
| **Volatile Compound** | **OSHA 8-hr TWA** | | | | |
| Chloroform | 9.78 | ND | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | ND | 15.6J | 14.4J | ND |
| Trichloroethene | 270 | ND | ND | ND | ND |
| 1,2-Dichloropropane | 350 | ND | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND | ND |
| Chlorobenzene | 350 | ND | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | ND | ND |
| Total Xylenes | 435 | ND | 11.4J | ND | ND |
| Styrene | 215 | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-05-3405 | RNS-A0-06-3415 | RNS-A0-06-3419 | RNS-A0-06-3403 |
|---|---|---|---|---|---|
| Sample Location | | Trip Blank | St. 6 Outside Sample | St. 6 Dup. Outside Sample | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.0 | 0.79 | 0.79 | 0.00 |
| Date of Sample Collection | | 9/27/90 | 9/29/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloroform | 9.78 | ND | UL | UL | UL |
| Carbon Tetrachloride | 12.6 | ND | 15.2J | 15.2J | UL |
| Trichloroethene | 270 | ND | 14.3J | 15.2J | UL |
| 1,2-Dichloropropane | 350 | ND | UL | UL | UL |
| Bromodichloroethane | -- | ND | UL | UL | UL |
| cis-1,2-Dichloropropene | -- | ND | UL | UL | UL |
| trans-1,2-Dichloropropene | -- | ND | UL | UL | UL |
| 1,1,2-Trichloroethane | 45 | ND | UL | UL | UL |
| Dibromochloromethane | -- | ND | UL | UL | UL |
| Chlorobenzene | 350 | ND | UL | 8.6J | UL |
| Ethylbenzene | 435 | ND | 14.3J | 14.3J | UL |
| Total Xylenes | 435 | ND | 57.1J | 57.1J | UL |
| Styrene | 215 | ND | 8.8J | UL | UL |
| Bromoform | 5 | ND | UL | UL | UL |
| 1,1,2,2-Tetrachloroethane | 7 | ND | UL | UL | UL |

[1] Results are presented in $ng/m^3$ except for the OSHA weighted averages which are in $mg/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3443 | RNS-A0-06-3438 | RNS-A0-06-3431 |
|---|---|---|---|---|
| Sample Location | | St. 6 Outside Sample | St. 6 Inside Sample of 3443 | St.6 Dup. Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.77 |
| Sample of Sample Collection ($m^3$) | | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | |
| Chloroform | 9.78 | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | 15.6 | ND | 15.6 |
| Trichloroethene | 270 | ND | ND | ND |
| 1,2 -Dichloropropane | 350 | ND | ND | ND |
| Bromodichloroethane | -- | ND | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND | ND |
| Dibromochloromethane | -- | ND | ND | ND |
| Chlorobenzene | 350 | ND | ND | ND |
| Ethylbenzene | 435 | ND | ND | ND |
| Total Xylenes | 435 | 19.5 | ND | 19.5 |
| Styrene | 215 | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

TABLE A2 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3439 | RNS-A0-06-3430 |
|---|---|---|---|
| Sample Location | | St. 6 Inside Sample of 3931 | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 |
| Sample of Sample Collection | | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | |
| Chloroform | 9.78 | ND | ND |
| Carbon Tetrachloride | 12.6 | ND | 15.6 |
| Trichloroethene | 270 | ND | ND |
| 1,2 -Dichloropropane | 350 | ND | ND |
| Bromodichloroethane | -- | ND | ND |
| cis-1,2-Dichloropropene | -- | ND | ND |
| trans-1,2-Dichloropropene | -- | ND | ND |
| 1,1,2-Trichloroethane | 45 | ND | ND |
| Dibromochloromethane | -- | ND | ND |
| Chlorobenzene | 350 | ND | ND |
| Ethylbenzene | 435 | ND | ND |
| Total Xylenes | 435 | ND | 19.5 |
| Styrene | 215 | ND | ND |
| Bromoform | 5 | ND | ND |
| 1,1,2,2-Tetrachloroethane | 7 | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted averages which are in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- OSHA limit not available.

# APPENDIX K - AIR

## RESULTS OF TENTATIVELY IDENTIFIED TENAX VOLATILE ORGANIC COMPOUND SAMPLING

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

TABLE A3
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-01-1-004 | RNS-A0-01-1-031 | RNS-A0-01-1-034 | RNS-A0-01-1-028 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Outside Sample | St. 1 Rep. Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.39 | 0.00 | 0.00 |
| Date of Sample Collection | | 9/13/90 | 9/13/9 | 9/13/90 | 9/13/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 64.9J | 102.6J | ND | ND |
| 1,1,1-Trichloroethane | 1900 | 13.0R | ND | ND | ND |
| Benzene | 33 | 39.0R | 51.3J | ND | ND |
| Trichlorofluoromethane | – | ND | ND | ND | ND |
| Toluene | 375 | ND | ND | ND | ND |
| Benzaldehyde | – | ND | ND | ND | ND |
| Phenylethanone | – | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | ND | ND |
| C4-Alkane | – | ND | ND | ND | ND |
| C5-Alkane | – | ND | 25.6J | ND | ND |
| C4-Oxygenated Alkane | – | ND | ND | ND | ND |
| C5-Oxygenated Alkane | – | ND | ND | ND | ND |
| C9-Hydrocarbon | – | ND | ND | ND | ND |
| C2-Substituted Benzene | – | ND | ND | ND | ND |
| Alkylnitrogen Substituted Benzene | – | ND | ND | ND | ND |
| C9-Oxygenated Alkenes | – | ND | ND | ND | ND |
| C10-Cyclic Hydrocarbon | – | ND | ND | ND | ND |
| C7-Oxygenated Alkane | – | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3406 | RNS-A0-02-3416 | RNS-A0-02-3404 | RNS-A0-02-3418 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Outside Sample | St. 2 In.Sample of 3406 | St. 2 Rep. Out. Sample | St. 2 In.Sample of 3404 |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.39 | 0.39 |
| Date of Sample Collection | | 9/28/90 | 9/28/90 | 9/28/90 | 9/13/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 129.9J | 51.9J | 102.6J | 39.0J |
| 1,1,1-Trichloroethane | 1900 | ND | ND | ND | ND |
| Benzene | 33 | 116.9R | 26.0R | 76.9R | 26.0R |
| Trichlorofluoromethane | -- | ND | 13.0R | ND | ND |
| Toluene | 375 | 26.0R | ND | ND | ND |
| Benzaldehyde | -- | 649.4R | 259.7R | 1,026R | 519.5R |
| Phenylethanone | -- | 779.2R | 127.9R | 769.2R | 519.5R |
| Methylene Chloride | 1765 | 26.0R | ND | ND | ND |
| C4-Alkane | -- | ND | ND | ND | 13.0J |
| C5-Alkane | -- | ND | ND | ND | ND |
| C4-Oxygenated Alkane | -- | ND | ND | ND | ND |
| C5-Oxygenated Alkane | -- | ND | ND | ND | ND |
| C9-Hydrocarbon | -- | ND | ND | ND | ND |
| C2-Substituted Benzene | -- | ND | ND | ND | ND |
| Alkylnitrogen Substituted Benzene | -- | ND | ND | ND | 13.0J |
| C9-Oxygenated Alkenes | -- | 779.2J | ND | 769.2R | ND |
| C10-Cyclic Hydrocarbon | -- | 13.0J | ND | ND | ND |
| C7-Oxygenated Alkane | -- | 64.9J | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
-- No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3413 | RNS-A0-02-3408 | RNS-A0-02-3442 | RNS-A0-02-3441 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | Trip Blank | St. 2 Outside Sample | St. 2 In.Sample of 3442 |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.00 | 0.77 | 0.77 |
| Date of Sample Collection | | 9/28/90 | 9/28/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 20[3]J | ND | 90.9J | 129.9J |
| 1,1,1-Trichloroethane | 1900 | ND | ND | 39.0R | ND |
| Benzene | 33 | 30[3]J | ND | 26.0R | ND |
| Trichlorofluoromethane | – | ND | ND | 389.6R | 129.8R |
| Toluene | 375 | ND | ND | 51 9R | ND |
| Benzaldenyde | – | 400[3]J | 200[3]J | ND | 51.9R |
| Phenylethanone | – | 500[3]J | 300[3]J | ND | ND |
| Methylene Chloride | 1765 | ND | ND | 26.0R | 26.0R |
| C4-Alkane | – | ND | ND | 51.9J | 129.9J |
| C5-Alkane | – | ND | ND | 389.6R | 519.5R |
| C4-Oxygenated Alkane | – | ND | ND | ND | ND |
| C5-Oxygenated Alkane | – | ND | ND | 13.0J | ND |
| C9-Hydrocarbon | – | ND | ND | ND | ND |
| C2-Substituted Benzene | – | 20[3]J | 10[3]J | ND | ND |
| Alkylnitrogen Substituted Benzene | – | ND | ND | ND | ND |
| C9-Oxygenated Alkenes | – | ND | ND | ND | ND |
| C10-Cyclic Hydrocarbon | – | ND | ND | ND | ND |
| C7-Oxygenated Alkane | – | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3433 | RNS-A0-02-3440 | RNS-A0-02-3432 | RNS-A0-02-3436 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Dup. Out. Sample | St. 2 In. Sample of 3433 | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.00 | 0.00 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 39.0J | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | 26.0R | ND | ND | ND |
| Benzene | 33 | 26.0R | ND | ND | ND |
| Trichlorofluoromethane | – | 129.9R | 259.7R | 20[3]J | 200[3]J |
| Toluene | 375 | 26.0R | ND | ND | ND |
| Benzaldenyde | – | 90.9R | 39.0R | ND | ND |
| Phenylethanone | – | 64.9R | ND | ND | ND |
| Methylene Chloride | 1765 | 26.0R | 39.0R | ND | 30[3]R |
| C4-Alkane | – | ND | 39.0R | ND | ND |
| C5-Alkane | – | 39.0R | 26.0R | 10[3]J | ND |
| C4-Oxygenated Alkane | – | ND | ND | ND | 20[3]J |
| C5-Oxygenated Alkane | – | ND | ND | ND | ND |
| C9-Hydrocarbon | – | 13.0J | ND | ND | ND |
| C2-Substituted Benzene | – | ND | ND | ND | ND |
| Alkylnitrogen Substituted Benzene | – | ND | ND | ND | ND |
| C9-Oxygenated Alkenes | – | ND | ND | ND | ND |
| C10-Cyclic Hydrocarbon | – | ND | ND | ND | ND |
| C7-Oxygenated Alkane | – | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (DONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-1-024 | RNS-A0-03-1-023 | RNS-A0-03-1-026 | RNS-A0-03-1-025 |
|---|---|---|---|---|---|
| Sample Location | | St. 3 Outside Sample | St. 3 In. Sample of 024 | St. 3 Dup. Out. Sample | St. 3 In. Sample of 026 |
| Volume Air Sampled ($m^3$) | | 0.78 | 0.77 | 0.77 | 0.77 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 38.5J | 38.5J | 51.3J | 38.5J |
| 1,1,1-Trichloroethane | 1900 | ND | ND | 25.6R | ND |
| Benzene | 33 | ND | 25.6R | 38.5R | 25.6J |
| Trichlorofluoromethane | – | 12.8R | 12.8R | 12.8R | 12.8R |
| Toluene | 375 | ND | ND | ND | ND |
| Benzaldenyde | – | ND | 51.3J | 38.5J | ND |
| Phenylethanone | – | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | ND | ND |
| C4-Alkane | – | ND | ND | ND | ND |
| C5-Alkane | – | ND | ND | 12.8J | ND |
| C4-Oxygenated Alkane | – | ND | ND | ND | ND |
| C5-Oxygenated Alkane | – | ND | ND | ND | ND |
| C9-Hydrocarbon | – | ND | ND | ND | ND |
| C2-Substituted Benzene | – | ND | ND | ND | ND |
| Alkylnitrogen Substituted Benzene | – | ND | ND | ND | ND |
| C9-Oxygenated Alkenes | – | ND | ND | ND | ND |
| C10-Cyclic Hydrocarbon | – | ND | ND | ND | ND |
| C7-Oxygenated Alkane | – | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
-- No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-1-007 | RNS-A0-03-1-011 | RNS-A0-04-3412 | RNS-A0-04-3407 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | Trip Blank | St. 4 Outside Sample | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.00 | 0.77 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | ND | ND | 77.9R | ND |
| Hexane | 180 | ND | ND | 129.9J | ND |
| Benzene | 33 | ND | ND | 39.0R | ND |
| Toluene | 375 | ND | ND | 26.0R | ND |
| Tetrachloroethene | – | ND | ND | 51.9R | ND |
| C8-Oxygenated Compound | – | ND | ND | 26.0J | ND |
| Benzaldehyde | – | ND | ND | 129.9R | 90[3]J |
| Phenylethanone | – | ND | ND | 129.9R | 100[3]J |
| C6-Oxygenated Hydrocarbon | – | ND | ND | 116.9J | ND |
| C9-Oxygenated Alkane | – | ND | ND | 389.6J | ND |
| C9-Alkene | – | ND | ND | 26.0J | ND |

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3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-04-3410 | RNS-A0-05-3411 | RNS-A0-05-3409 | RNS-A0-05-3401 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | St. 5 Outside Sample | St. 5 Rep. Out. Sample | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.77 | 0.39 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/27/90 | 9/27/90 | 9/27/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Acetone | 1800 | 10[3]J | 51.9R | 102.6R | 20[3]J |
| Toluene | 375 | ND | 26.9R | ND | ND |
| Benzaldehyde | – | 90[3]J | 779.2R | 1,538R | 400[3]J |
| Nitrogenated Compounds | – | ND | 51.9J | ND | ND |
| Phenylethanone | – | 70[3]J | 649.3R | 1,538R | 400[3]J |
| C8-Alkane | – | ND | 77.9J | ND | ND |
| C9-Oxygenated Alkane | – | ND | 389.6J | 769.2J | 20[3]J |
| Benzene | 33 | ND | ND | 51.3R | ND |
| C2-Alkybenzene | – | ND | ND | 25.6J | ND |
| C4-Oxygenated Alkane | – | ND | ND | 25.6R | 10[3]J |
| C7-Alkene | – | ND | ND | 153.8J | ND |
| C9-Alkene | – | ND | ND | 25.6J | ND |
| Chlorodifluoroethane | – | ND | ND | ND | 30[3]J |
| C5-Alkane | – | ND | ND | ND | 80[3]J |
| C5-Hydrocarbon | – | ND | ND | ND | 50[3]J |
| Substituted Benzene | – | ND | ND | ND | 10[3]J |
| Mythlene Chloride | 1765 | ND | ND | ND | 40[3]J |

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UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | NS-A0-05-3405 | RNS-A0-06-3415 | RNS-A0-06-3419 | RNS-A0-06-3403 |
|---|---|---|---|---|---|
| Sample Location | | Trip Blank | St. 6 Outside Sample | St. 6 Dup. Out. Sample | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.00 | 0.79 | 0.79 | 0.00 |
| Date of Sample Collection | | 9/27/90 | 9/29/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | | |
| Benzaldehyde | – | 200[3]J | 101.3R | 113.9R | 30[3]J |
| Phenylethanone | – | 200[3]J | 101.3R | 75.9R | 50[3]J |
| Acetone | 1800 | ND | 75.9J | 88.6J | ND |
| Benzene | 33 | 10[3]J | 50.6R | 63.3R | ND |
| Toluene | 375 | ND | 50.6R | 50.6R | ND |
| C7-Oxygenated Alkane | – | ND | 38.0J | 50.6J | ND |
| C10-Cyclic Alkene | – | ND | 38.0J | 38.0J | ND |
| C5-Alkene | – | ND | ND | 38.0J | ND |
| C6-Oxygenated Hydrocarbon | – | ND | 50.6J | 75.9J | ND |
| C9-Oxygenated Alkane | – | ND | 506.3J | 759.5J | ND |
| C9-Alkene | – | ND | ND | 38.0J | ND |
| C5-Alkane | – | ND | 50.6R | ND | ND |
| Substituted Benzene | – | 10[3]J | ND | ND | ND |

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3 Results are presented in total ng.
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UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3443 | RNS-A0-06-3438 | RNS-A0-06-3431 |
|---|---|---|---|---|
| Sample Location | | St.6 Outside Sample | St. 6 In. Sample of 3405 | St. 6 Dup. Out. Sample |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.77 | 0.77 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | | |
| Benzaldehyde | – | 39.0R | ND | ND |
| Acetone | 1800 | 39.0J | ND | 64.9J |
| Benzene | 33 | 26.0R | ND | 26.0R |
| Toluene | 375 | 26.0R | ND | 26.0R |
| C9-Alkene | – | ND | ND | ND |
| C5-Alkane | – | 39.0R | 259.7R | 116.9R |
| C4-Alkane | – | 26.0J | 26.0J | 51.9J |
| Trichlorofluoromethane | – | 129.9R | 389.6R | 259.7R |
| C2-Oxygenated Alkane | – | ND | 39.0J | ND |
| Methylene Chloride | 1765 | 26.0R | 39.0R | ND |
| 1,2-Dichloroethene | – | 39.0R | ND | 39.0R |
| 1,1,1-Trichloroethane | – | 26.0R | ND | 26.0R |
| Tetrachloroethene | – | ND | ND | 13.0R |

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2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

TABLE A3 (CONT'D)
RESULTS OF TENAX VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3439 | RNS-A0-06-3430 |
|---|---|---|---|
| Sample Location | | St.6 In. Sample of 3431 | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.00 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8 hr. TWA** | | |
| Benzaldehyde | – | ND | ND |
| Acetone | 1800 | ND | ND |
| Benzene | 33 | ND | ND |
| Toluene | 375 | ND | ND |
| C9-Alkene | – | ND | ND |
| C5-Alkane | – | 26.0R | ND |
| C4-Alkane | | ND | ND |
| Trichlorofluoromethane | – | 129.9R | ND |
| C2-Oxygenated Alkane | – | ND | ND |
| Methylene Chloride | 1765 | ND | ND |
| 1,2-Dichloroethene | – | ND | ND |
| 1,1,1-Trichloroethane | – | ND | ND |
| Tetrachloroethene | – | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
R Unreliable Results - Analyte may or may not be present in this sample.
ND Not Detected
– No OSHA limit available.

# *APPENDIX K - AIR*

## RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

TABLE A4
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers Nease Superfund Site
, Salem, Ohio

| Sample Number | | RNS-A0-01-2-024 | RNS-A0-01-2-023 | RNS-A0-01-2-032 | RNS-A0-02-3516 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Outside Sample | Trip Blank | Field Blank | St. 2 Rep. Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.00 | 0.00 | 0.39 |
| Date of Sample Collection | | 9/13/90 | 9/13/90 | 9/13/90 | 9/28/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | --- | ND | ND | ND | UL |
| Vinyl Chloride | 20 | ND | ND | ND | UL |
| Bromomethane | --- | ND | ND | ND | UL |
| Chloroethane | --- | ND | ND | ND | UL |
| cis-1,2-Dichloroethene | 790 | ND | ND | ND | UL |
| Carbon Disulfide | 12 | ND | ND | ND | UL |
| Methylene Chloride | 1765 | ND | ND | ND | 117.9U |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND | UL |
| 1,1-Dichloroethane | 400 | ND | ND | ND | UL |
| Vinyl Acetate | 30 | ND | ND | ND | UL |
| 1,1-Dichloroethene | --- | ND | ND | ND | UL |
| 1,1,1-Trichloroethane | 1900 | ND | ND | ND | 74.4J |
| Benzene | 33 | ND | ND | ND | UL |
| 1,2-Dichloroethane | --- | ND | ND | ND | UL |
| Toluene | 375 | ND | ND | ND | UL |
| Tetrachloroethene | 170 | ND | ND | ND | UL |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighed average which is in $mg/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not Detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3509 | RNS-A0-02-3533 | RNS-A0-02-3530 | RNS-A0-02-3540 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Rep. Inside Sample of 3516 | St. 2 Outside Sample | St. 2 Inside Sample of 3533 | St. 2 Dup. Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.39 | 0.76 | 0.76 | 0.76 |
| Date of Sample Collection | | 9/28/90 | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | ----- | UL | ND | ND | ND |
| Vinyl Chloride | 20 | UL | ND | ND | ND |
| Bromomethane | ----- | UL | ND | ND | ND |
| Chloroethane | ----- | UL | ND | ND | ND |
| cis-1,2-Dichloroethene | 790 | UL | ND | ND | ND |
| Carbon Disulfide | 12 | UL | ND | ND | ND |
| Methylene Chloride | 1765 | 120.5U | 16.4U | ND | 31.6U |
| trans-1,2-Dichloroethene | 790 | UL | ND | ND | ND |
| 1,1-Dichloroethane | 400 | UL | ND | ND | ND |
| Vinyl Acetate | 30 | UL | ND | ND | ND |
| bi-Dichloroethene | ----- | UL | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | 30.8U | 46.6J | ND | 28.9J |
| Benzene | 33 | UL | ND | ND | ND |
| 1,2-Dichloroethane | ----- | UL | ND | ND | ND |
| Toluene | 375 | UL | ND | ND | ND |
| Tetrachloroethene | 170 | UL | ND | ND | ND |

[1] Results are presented in $ng/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3537 | RNS-A0-02-3534 | RNS-A0-02-3541 | RNS-A0-03-2-004 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Inside Sample of 3540 | Trip Blank | Field Blank | St. 3 Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.00 | 0.00 | 0.76 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 | 10/27/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | ----- | ND | ND | ND | ND |
| Vinyl Chloride | 20 | ND | ND | ND | ND |
| Bromomethane | ----- | ND | ND | ND | ND |
| Chloroethane | ----- | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| Carbon Disulfide | 12 | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | 26[3] | ND |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND | ND | ND |
| Vinyl Acetate | 30 | ND | ND | ND | ND |
| 1,1-Dichloroethene | ----- | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | ND | ND | ND | ND |
| Benzene | 33 | ND | ND | ND | ND |
| 1,2-Dichloroethane | ----- | ND | ND | ND | ND |
| Toluene | 375 | ND | ND | ND | ND |
| Tetrachloroethene | 170 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-2-003 | RNS-A0-03-2-007 | RNS-A0-03-2-005 | RNS-A0-03-2-010 |
|---|---|---|---|---|---|
| Sample Location | | St. 3 Inside Sample of 004 | St. 3 Dup. Outside Sample | St. 3 Inside Sample of 007 | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.77 | 0.77 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | ----- | ND | ND | ND | ND |
| Vinyl Chloride | 20 | ND | ND | ND | ND |
| Bromomethane | ----- | ND | ND | ND | ND |
| Chloroethane | ----- | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| Carbon Disulfide | 12 | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | 13.0U | ND |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND | ND | ND |
| Vinyl Acetate | 30 | ND | ND | ND | ND |
| 1,1-Dichloroethene | ----- | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | ND | ND | ND | ND |
| Benzene | 33 | ND | ND | ND | ND |
| 1,2-Dichloroethane | ----- | ND | ND | ND | ND |
| Toluene | 375 | ND | ND | ND | ND |
| Tetrachloroethene | 170 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not Detected.
-- OSHA limit not available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-2-021 | RNS-A0-04-2-3503 | RNS-A0-04-3514 | RNS-A0-04-3502 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | St. 4 Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.0 | .76 | 0.00 | 0.0 |
| Date of Sample Collection | | 9/10/90 | 9/29/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | – | ND | ND | ND | ND |
| Vinyl Chloride | 20 | ND | ND | ND | ND |
| Bromomethane | -- | ND | ND | ND | ND |
| Chloroethane | – | ND | ND | ND | ND |
| cis-1,1-Dichloroethene | 790 | ND | ND | ND | ND |
| Carbon Disulfide | 12 | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND | ND | ND |
| Vinyl Acetate | 30 | ND | ND | ND | ND |
| 1,1-Dichloroethene | -- | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | ND | ND | ND | ND |
| Benzene | 33 | ND | ND | ND | ND |
| 1,2-Dichloroethane | – | ND | ND | ND | ND |
| Toluene | 375 | ND | ND | ND | ND |
| Tetrachloroethene | 170 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, bur the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-05-3508 | RNS-A0-05-3510 | RNS-A0-05-3518 | RNS-A0-05-3517 |
|---|---|---|---|---|---|
| Sample Location | | St. 5 Outside Sample | St. 5 Rep. Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | .39 | 0.00 | 0.00 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| Chloromethane | -- | ND | ND | ND | ND |
| Vinyl Chloride | 20 | ND | ND | ND | ND |
| Bromomethane | -- | ND | ND | ND | ND |
| Chloroethane | -- | ND | ND | R | ND |
| cis-1,1-Dichloroethene | 790 | ND | ND | ND | ND |
| Carbon Disulfide | 12 | ND | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | ND | 25[3] |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND | ND | ND |
| Vinyl Acetate | 30 | ND | ND | ND | ND |
| 1,1-Dichloroethene | -- | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | 28.9J | ND | ND | ND |
| Benzene | 33 | ND | ND | ND | ND |
| 1,2-Dichloroethane | -- | ND | ND | ND | ND |
| Toluene | 375 | ND | ND | ND | ND |
| Tetrachloroethene | 170 | ND | ND | ND | ND |

[1] Results are presented in $ng/m^3$.
[2] This table presents only those compounds identified by the analysis.
[3] Reported in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, bur the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
*Ruetgers-Nease Superfund Site*
Salem, Ohio

| Sample Number | | RNS-A0-06-3515 | RNS-A0-06-3504 | RNS-A0-06-3543 |
|---|---|---|---|---|
| Sample Location | | St. 6 Outside Sample | St. 6 Dup. Outside Sample | St. 6 Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.76 | 0.76 |
| Date of Sample Collection | | 9/29/90 | 9/29/90 | 10/27/90 |
| **Volatile Compound** | **OSHA 8-hour TWA** | | | |
| Chloromethane | -- | ND | ND | ND |
| Vinyl Chloride | 20 | ND | ND | ND |
| Bromomethane | -- | ND | ND | ND |
| Chloroethane | -- | ND | ND | ND |
| cis-1,1-Dichloroethene | 790 | ND | ND | ND |
| Carbon Disulfide | 12 | ND | ND | ND |
| Methylene Chloride | 1765 | ND | ND | ND |
| trans-1,2-Dichloroethene | 790 | ND | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND | ND |
| Vinyl Acetate | 30 | ND | ND | ND |
| 1,1-Dichloroethene | -- | ND | ND | ND |
| 1,1,1-Trichloroethane | 1900 | ND | ND | 28.9 |
| Benzene | 33 | ND | ND | ND |
| 1,2-Dichloroethane | -- | ND | ND | ND |
| Toluene | 375 | ND | ND | ND |
| Tetrachloroethene | 170 | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

TABLE A4 (CONT'D)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3542 | RNS-A0-06-3531 |
|---|---|---|---|
| Sample Location | | St. 6 Inside Sample of 3543 | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.00 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | |
| Chloromethane | -- | ND | ND |
| Vinyl Chloride | 20 | ND | ND |
| Bromomethane | -- | ND | ND |
| Chloroethane | -- | ND | ND |
| cis-1,1-Dichloroethene | 790 | ND | ND |
| Carbon Disulfide | 12 | ND | ND |
| Methylene Chloride | 1765 | ND | ND |
| trans-1,2-Dichloroethene | 790 | ND | ND |
| 1,1-Dichloroethane | 400 | ND | ND |
| Vinyl Acetate | 30 | ND | ND |
| 1,1-Dichloroethene | -- | ND | ND |
| 1,1,1-Trichloroethane | 1900 | ND | ND |
| Benzene | 33 | ND | ND |
| 1,2-Dichloroethane | -- | ND | ND |
| Toluene | 375 | ND | ND |
| Tetrachloroethene | 170 | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Reported as total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, bur the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.

# APPENDIX K - AIR

## RESULTS OF TENTATIVELY IDENTIFIED CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

TABLE A5
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-01-2-024 | RNS-A0-01-2-023 | RNS-A0-01-2-032 | RNS-A0-02-3516 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Outside Sample | Trip Blank | Field Blank | St. 2 Rep. Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.77 | 0.00 | 0.00 | 0.39 |
| Date of Sample Collection | | 9/13/90 | 9/13/90 | 9/13/90 | 9/28/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| C-4 Alkane | ----- | ND | ND | ND | 76.9J |
| Trichlorofluoromethane | ----- | ND | ND | ND | 512.8R |
| C3-Alkane | ----- | ND | ND | ND | 25.6J |
| C5-Alkane | ----- | ND | ND | ND | 76.9R |
| Acetone | 1800 | ND | ND | ND | 25.6J |
| Carbon Tetrachloride | 12.6 | ND | ND | ND | ND |
| C2-Nitrogenated Alkane | ----- | ND | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND | ND |
| Butane | 1900 | ND | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND | ND |
| Oxygneated Hydrocarbon | ----- | ND | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3509 | RNS-A0-02-3533 | RNS-A0-02-3530 | RNS-A0-02-3540 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Rep. Inside Sample of 3516 | St.2 Outside Sample | St. 2 Inside Sample of 3533 | St. 2 Dup. Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.39 | 0.76 | 0.76 | 0.76 |
| Date of Sample Collection | | 9/28/90 | 10/27/90 | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OHSA 8-hr. TWA** | | | | |
| C-4 Alkane | ---- | 51.3J | ND | ND | ND |
| Trichlorofluoromethane | ---- | 256.4R | 118.4R | 39.5R | 263.2R |
| C3-Alkane | ---- | ND | ND | ND | ND |
| C5-Alkane | ---- | ND | ND | ND | ND |
| Acetone | 1800 | ND | ND | ND | 26.3J |
| Carbon Tetrachloride | 12.6 | ND | 25.6R | ND | 13.2R |
| C2-Nitrogenated Alkane | ---- | ND | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND | ND |
| Butane | 1900 | ND | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND | ND |
| Oxygneated Hydrocarbon | ---- | ND | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
[2] This table presents only those compounds detected by the analysis.
[3] Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not Detected.
-- No OSHA limit available.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)

Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-02-3537 | RNS-A0-02-3534 | RNS-A0-02-3541 | RNS-A0-03-004 |
|---|---|---|---|---|---|
| Sample Location | | St. 2 Inside Sample of 5340 | Trip Blank | Field Blank | St. 3 Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.00 | 0.00 | 0.76 |
| Date of Sample Location | | 10/27/90 | 10/27/90 | 10/27/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| C-4 Alkane | ---- | ND | ND | ND | ND |
| Trichlorofluoromethane | ---- | ND | 20[3]J | 200[3]J | ND |
| C3-Alkane | ---- | ND | ND | ND | ND |
| C5-Alkane | ---- | ND | ND | ND | ND |
| Acetone | 1800 | ND | ND | ND | ND |
| Carbon Tetrachloride | 126 | ND | ND | ND | ND |
| C2-Nitrogenated Alkane | ---- | ND | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND | ND |
| Butane | 1900 | ND | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND | ND |
| Oxygneated Hydrocarbon | ---- | ND | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Reutgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-2-021 | RNS-A0-04-3503 | RNS-A0-04-3514 | RNS-AO-04-3502 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | St. 4 Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.0 | 0.76 | 0.00 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/29/90 | 9/29/90 | 9/29/90 |
| **Volatile Compound** | **OHSA 8-hr. TWA** | | | | |
| C-4 Alkane | ----- | ND | ND | ND | ND |
| Trichlorofluoromethane | ----- | ND | ND | ND | ND |
| C3-Alkane | ----- | ND | ND | ND | ND |
| C5-Alkane | ----- | ND | ND | ND | ND |
| Acetone | 1800 | ND | ND | ND | ND |
| Carbon Tetrachloride | ----- | ND | ND | ND | ND |
| C2-Nitrogenated Alkan | 126 | ND | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND | ND |
| Butane | 1900 | ND | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND | ND |
| Oxygenated Hydrocarbon | ----- | ND | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

[1] Results are presented in ng/m3 except for the OSHA time weighted coverage which is in $mg/m^3$.
[2] This table presents only those compounds identified by the analysis.
[3] Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a smiliar level.
ND Not detected.
-- No OSHA limit available.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Reutgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-05-3508 | RNS-A0-05-3510 | RNS-A0-05-3518 | RNS-AO-05-3517 |
|---|---|---|---|---|---|
| Sample Location | | St. 5 Outside Sample | St. 5 Rep. Outside Sample | Field Blank | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.39 | 0.00 | 0.00 |
| Date of Sample Collection | | 9/2790 | 9/27/90 | 9/27/90 | 9/27/90 |
| Volatile Compound | OHSA 8-hr. TWA | | | | |
| C-4 Alkane | ----- | ND | ND | ND | ND |
| Trichlorofluoromethane | ----- | ND | ND | ND | ND |
| C3-Alkane | ----- | ND | ND | ND | ND |
| C5-Alkane | ----- | ND | ND | ND | ND |
| Acetone | 1800 | 13.2J | ND | ND | ND |
| Carbon Tetrachloride | 12.6 | ND | ND | ND | ND |
| C2-Nitrogenated Alkane | ----- | ND | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | 65.8J | ND | ND | ND |
| Butane | 1900 | 26.3J | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | 70[3]J | ND |
| 1,4-Dioxane | 90 | ND | ND | 50[3]J | ND |
| Oxygenated Hydrocarbon | ----- | ND | ND | 10[3]J | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $ng/m^3$.
[2] This table presents only those compounds identified by the analysis.
[3] Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a smiliar level.
ND Not detected.
-- No OSHA limit available.
R Un reliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Reutgers Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-03-2-003 | RNS-A0-03-2-007 | RND-A0-03-3-005 | RNA-A0-03-2-010 |
|---|---|---|---|---|---|
| Sample Location | | St.3 Inside Sample of 004 | St.3 Dup. Outside Sample | St.3 Inside Sample of 007 | Trip Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.77 | 0.77 | 0.00 |
| Date of Sample Collection | | 9/10/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Volatile Compound** | **OSHA 8-hr. TWA** | | | | |
| C-4 Alkane | ----- | ND | ND | ND | ND |
| Trichlorofluoromethane | ----- | ND | ND | ND | ND |
| C3-Alkane | ----- | ND | ND | ND | ND |
| C5-Alkane | ----- | ND | ND | ND | ND |
| Acetone | 1800 | ND | ND | ND | ND |
| Carbon Tetrachloride | 126 | ND | ND | ND | ND |
| C2-Nitrogenated Alkane | ----- | ND | 51.9J | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND | ND |
| Butane | 1900 | ND | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND | ND |
| Oxygenated Hydrocarbon | ----- | ND | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | ND | ND |

[1] Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
[2] This table presents only those compounds identified by the analysis.
[3] Results are presented in total nd.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a smiliar level.
ND Not detected.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Ruetgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3542 | RNS-A0-06-3531 |
|---|---|---|---|
| Sample Location | | St. 6 Inside Sample of 3543 | Field Blank |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.00 |
| Date of Sample Collection | | 10/27/90 | 10/27/90 |
| **Volatile Compound** | **OHSA 8-hr. TWA** | | |
| C4- Alkane | ----- | ND | ND |
| Trichlorofluoromethane | ----- | ND | ND |
| C3-Alkane | ----- | ND | ND |
| C5-Alkane | ----- | ND | ND |
| Acetone | 1800 | ND | ND |
| Carbon Tetrachloride | 126 | ND | ND |
| C2-Nitrogenated Alkane | ----- | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND |
| Butane | 1900 | ND | ND |
| Sulfur Dioxide | 5 | ND | ND |
| 1,4-Dioxane | 90 | ND | ND |
| Oxygenated Hydrocarbon | ----- | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/m^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
-- No OSHA limit available.
R Unreliable results analyte may or may not be present in the sample.

TABLE A5 (Cont'd)
RESULTS OF CMS HIGHLY VOLATILE ORGANIC COMPOUND SAMPLING[1,2]
(TENTATIVELY IDENTIFIED COMPOUNDS)
Reutgers-Nease Superfund Site
Salem, Ohio

| Sample Number | | RNS-A0-06-3504 | RNS-A0-06-3515 | RNS-A0-06-3543 |
|---|---|---|---|---|
| Sample Location | | St. 6 Outside Sample | St. 6 Dup. Outside Sample | St. 6 Outside Sample |
| Volume Air Sampled ($m^3$) | | 0.76 | 0.76 | 0.76 |
| Date of Sample Collection | | 9/29/90 | 9/29/90 | 10/27/90 |
| Volatile Compound | OHSA 8-hr. TWA | | | |
| C-4 Alkane | ----- | ND | ND | 65.8J |
| Trichlorofluoromethane | ----- | ND | ND | 263.2R |
| C3-Alkane | ----- | ND | ND | ND |
| C5-Alkane | ----- | ND | ND | ND |
| Acetone | 1800 | ND | ND | 26.3J |
| Carbon Tetrachloride | 126 | ND | ND | 13.2R |
| C2-Nitrogenated Alkane | ----- | ND | ND | ND |
| Dichlorodifluoromethane | 4950 | ND | ND | ND |
| Butane | 1900 | ND | ND | ND |
| Sulfur Dioxide | 5 | ND | ND | ND |
| 1,4-Dioxane | 90 | ND | ND | ND |
| Oxygenated Hydrocarbon | ----- | ND | ND | ND |
| 1,1,2-Trichlorotrifluoroethane | 7600 | ND | ND | 26.3J |

1 Results are presented in $ng/m^3$ except for the OSHA time weighted average which is in $mg/^3$.
2 This table presents only those compounds identified by the analysis.
3 Results are presented in total ng.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
UL This analyte was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.
U This compound should be considered "not detected" since it was detected in a blank at a smiliar level.
ND Not detected.
-- No OSHA limit available.
R Unreliable results analyte may or may not be present in the sample.

# APPENDIX K - AIR

## RESULTS OF XAD-2 SEMIVOLATILE ORGANIC COMPOUND SAMPLING

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

TABLE A6

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| Station Number | | RNS-AO-01-3-022 | RNS-AO-01-3-026 | RNS-AO-01-3-025 | RNS-AO-02-3-037 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Outside Sample | Field Blank | Trip Blank | St. 2 Outside Sample |
| Volume Air Sample ($m^3$) | | 0.51 | 0.00 | 0.00 | 0.51 |
| Date of Sample Collection | | 9/13/90 | 9/13/90 | 9/13/90 | 9/28/90 |
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | 4,100 | ND | ND | ND |
| N-Nitrosodiphenylamine | -- | ND | ND | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nese Superfund Site
Salem, Ohio

| Station Number | | RNS-AO-02-3-036 | RNS-AO-02-3-039 | RNS-AO-02-3-038 | RNS-AO-02-3-040 |
|---|---|---|---|---|---|
| Sample Location | | St. 1 Inside Sample of 031 | St. 2 Dup. Outside Sample | St. 2 Inside Sample of 039 | Field Blank |
| Volume Air Sample ($m^3$) | | 0.51 | 0.25 | 0.25 | 0.00 |
| Date of Sample Collection | | 9/28/90 | 9/28/90 | 9/28/90 | 9/28/90 |
| Semi-volatile Compound | OSHA 8-hour TWA | | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | ND | ND | ND | ND |
| N-Nitrosodiphenylamine | -- | ND | ND | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| Station Number | | RNS-AO-02-3-041 | RNS-AO-03-3-004 | RNS-AO-03-3-003 | RNS-AO-03-3-006 |
|---|---|---|---|---|---|
| Sample Location | | Trip Blank | St. 3 Outside Sample | St. 3 Inside Sample of 004 | St. 3 Dup. Outside Sample |
| Volume Air Sample ($m^3$) | | 0.00 | 0.51 | 0.51 | 0.51 |
| Date of Sample Collection | | 9/28/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | ND | 5,100U | 2,500U | 2,400U |
| N-Nitrosodiphenylamine | -- | ND | ND | 2,200J | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| Station Number | | RNS-AO-03-3-005 | RNS-AO-03-3-007 | RNS-AO-03-3-008 | RNS-AO-04-3-042 |
|---|---|---|---|---|---|
| Sample Location | | St.3 Inside Sample of 006 | Field Blank | Trip Blank | St. 4 Outside Sample |
| Volume Air Sample ($m^3$) | | 0.00 | 0.51 | 0.51 | 0.51 |
| Date of Sample Collection | | 9/28/90 | 9/10/90 | 9/10/90 | 9/10/90 |
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | 6,300U | 1,900J[3] | 3,000J[3] | ND |
| N-Nitrosodiphenylamine | -- | ND | ND | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| Station Number | | RNS-AO-04-3-043 | RNS-AO-04-3-044 | RNS-AO-05-3-034 | RNS-AO-05-3-030 |
|---|---|---|---|---|---|
| Sample Location | | Field Blank | Trip Blank | St. 5 Rep. Outside Sample | Field Blank |
| Volume Air Sample ($m^3$) | | 0.00 | 0.00 | 0.26 | 0.00 |
| Date of Sample Collection | | 9/29/90 | 9/29/90 | 9/27/90 | 9/27/90 |
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | ND | ND | ND | ND |
| N-Nitrosodiphenylamine | -- | ND | ND | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| Station Number<br>Sample Location<br>Volume Air Sample ($m^3$)<br>Date of Sample Collection | | RNS-AO-05-3-035<br>Trip Blank<br>0.00<br>9/27/90 | RNS-AO-06-3-012<br>St. 6 Outside Sample<br>0.51<br>9/11/90 | RNS-AO-06-3-014<br>St. 6 Dup. Outside Sample<br>0.51<br>9/11/90 |
|---|---|---|---|---|
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | | |
| bis-(2-Ethylhexyl) Phthalate | -- | 4,100[3] | 10,400 | 25,500 |
| N-Nitrosodiphenylamine | -- | ND | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

TABLE A6 (CONT'D)

RESULTS OF XAD-2 SEMI-VOLATILE ORGANIC COMPOUND SAMPLING[1,2]

Ruetgers-Nease Superfund Site
Salem, Ohio

| | | | |
|---|---|---|---|
| **Station Number** | | **RNS-AO-06-3-011** | **RNS-AO-06-3-009** |
| **Sample Location** | | **Field Blank** | **Trip Blank** |
| **Volume Air Sample ($m^3$)** | | **0.00** | **0.00** |
| **Date of Sample Collection** | | **9/11/90** | **9/11/90** |
| **Semi-volatile Compound** | **OSHA 8-hour TWA** | | |
| bis-(2-Ethylhexyl) Phthalate | -- | 9,000J[3] | 6,200J[3] |
| N-Nitrosodiphenylamine | -- | ND | ND |

1 Results presented in $ng/m^3$.
2 This table presents only those compounds detected by the analysis.
3 Results presented in total ng.
U This compound should be considered "not detected" since it was detected in a blank at a similar level.
ND Not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
-- No OSHA limit available.

# APPENDIX K - AIR

## RESULTS OF PUF PESTICIDE SAMPLING

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

TABLE A7

RESULTS OF PUF PESTICIDE SAMPLING
Ruetgers-Nease Superfund Site[1]

| Sample Number | Date of Sampling Completion | $m^3$ of air Sampled | Photomirex ($ng/m^3$) | Mirex ($ng/m^3$) | delta-BHC ($ng/m^3$)[2] | alpha-BHC ($ng/m^3$) | Heptachlor Epoxide ($ng/m^3$) |
|---|---|---|---|---|---|---|---|
| RNS-AO/AP-01-4-005 Station 1 | 9/14/90 | 332.0 | 1.04J | 4.88J | | | |
| RNS-AO/AP-02-4-008 Station 2 | 9/29/90 | 336.0 | 1.21J | 7.02J | | | |
| RNS-AO/AP-03-4-001 Station 3 | 9/11/90 | 332.0 | 4.28J | 20.72J | | 1.72R | 0.81R |
| RNS-A01AP-034-4-002 duplicate Station 3 | 9/11/90 | 332.0 | 4.52J | 22.53J | | 1.66R | |
| RNS-AO/AP-04-4-006 Station 4 | 9/14/90 | 332.0 | 5.63J | 46.99J | 1.42R | | |
| RNS-AO/AP-05-4-00 Station 5 | 9/27/90 | 339.0 | 0.87J | 20.18J | | | |
| RNS-AO/AP-06-4-003 Station 6 | 9/12/90 | 335.3 | 2.62J | 16.76J | | 2.14R | |
| RNS-AO/AP-06-4-004 Station 6 Duplicate | 9/12/90 | 336.8 | 3.83J | 32.36J | | 2.35R | |

1 This table presents only those compounds detected by the analysis.
2 The OSHA times weighted 8-hr averages for delta-BHC is 0.5 $mg/m^3$.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
R Unreliable result - Analyte may or may not be present in this sample.

# APPENDIX K - AIR

## AMBIENT AIR PARTICULATE RESULTS

NEASE CHEMICAL COMPANY SITE
SALEM, OHIO

TABLE A8

AMBIENT AIR PARTICULATE RESULTS

Ruetgers-Nease Superfund Site

| Station | Date/Time Sampling Completion | Filter Weight Gain (mg) | Volume Air Sampled ($m^3$) | Concentration ($mg/m^3$) |
|---|---|---|---|---|
| 1 | 9/14/90, 0948 | 84.1 | 2035 | 41.3 |
| 2 | 9/24/90, 1250 | 94.5 | 2035 | 46.4 |
| 3 | 9/11/90, 1142 | 37.7* | 2035 | 18.5* |
| 4 | 9/14/90, 1118 | 80.1 | 2035 | 39.4 |
| 6 | 9/12/90, 1545 | 87.6 | 2035 | 43.0 |
| 6 duplicate | 9/12/90, 1550 | 85.7 | 2035 | 42.1 |

* A front passed through with rain 24-hours prior to commencement of sampling at this station.

NOTE: The total suspended particulate 24-hour primary and secondary standards are 260 $ug/m^3$ and 150 $\mu g/m^3$, respectively.

# APPENDIX K - AIR

## LABORATORY DATA AND
## QUALITY ASSURANCE/QUALITY CONTROL VALIDATION

## NEASE CHEMICAL COMPANY SITE
## SALEM, OHIO

# APPENDIX L

## Aquifer Slug Test Results and Analysis

## (Slug Test Analyses by Hvorslev Method)

Hvorslev equation for Ruetgers-Nease Salem Slug Testing

kh = (d ^ 2 ln(2mL))/(8LT)

WHERE:

h = Horizontal Hydraulic Conductivity in cm/sec
d = Diameter of the intake in cm
m = Transformation ratio
L = Length of intake in cm
T = Basic time lag in seconds

ASSUMPTIONS

Soil at intake infinite depth and directional isotropy
No disturbance, segregation, swelling or consolidation of soil
No sedimentation or leakage
No air or gas in soil well point or pipe
Hydraulic losses in pipes well point or filter negligible

| WELL # | INTAKE LENGTH (ft) | INTAKE LENGTH (cm) | INTAKE DIAMETER (in) | INTAKE DIAMETER (cm) | TIME LAG (min) | TIME LAG (sec) | HYDRAULIC CONDUCTIVITY (cm/sec) | HYDRAULIC CONDUCTIVITY (ft/day) |
|---|---|---|---|---|---|---|---|---|
| S-4 | 7.75 | 236.22 | 9 | 22.86 | 14 | 840 | 4.92E-05 | 1.40E-01 |
| S-6 | 6.25 | 190.5 | 9 | 22.86 | 33 | 1980 | 2.41E-05 | 6.82E-02 |
| S-7 | 6.5 | 198.12 | 9 | 22.86 | 10 | 600 | 7.74E-05 | 2.19E-01 |
| S-9 | 10 | 304.8 | 9 | 22.86 | 270 | 16200 | 2.15E-06 | 6.08E-03 |
| S-12 | 9.2 | 280.416 | 9 | 22.86 | 19.5 | 1170 | 3.15E-05 | 8.92E-02 |
| S-15 | 6 | 182.88 | 9 | 22.86 | 1.1 | 66 | 7.41E-04 | 2.10E+00 |
| S-16 | 9 | 274.32 | 9 | 22.86 | 1.2 | 72 | 5.19E-04 | 1.47E+00 |
| S-17 | 6.4 | 195.072 | 9 | 22.86 | 1.2 | 72 | 6.52E-04 | 1.85E+00 |
| S-19 | 7 | 213.36 | 9 | 22.86 | 3 | 180 | 2.46E-04 | 6.97E-01 |
| D-1 | 8.5 | 259.08 | 5.5 | 13.97 | 2.75 | 165 | 2.73E-04 | 7.73E-01 |
| D-3 | 7.5 | 228.6 | 5.5 | 13.97 | 0.76 | 45.6 | 1.08E-03 | 3.06E+00 |
| D-4 | 9 | 274.32 | 5.5 | 13.97 | 9.5 | 570 | 7.57E-05 | 2.15E-01 |
| D-8 | 6.7 | 204.216 | 5.5 | 13.97 | 1.6 | 96 | 5.55E-04 | 1.57E+00 |
| D-9 | 11.5 | 350.52 | 5.5 | 13.97 | 0.175 | 10.5 | 3.43E-03 | 9.73E+00 |
| D-10 | 10.5 | 320.04 | 5.5 | 13.97 | 54 | 3240 | 1.19E-05 | 3.37E-02 |
| D-11 | 12 | 365.76 | 3.5 | 8.89 | 13 | 780 | 4.99E-05 | 1.41E-01 |
| D-12 | 9.5 | 289.56 | 3.5 | 8.89 | 28 | 1680 | 2.77E-05 | 7.85E-02 |
| D-13 | 10.5 | 320.04 | 3.5 | 8.89 | 4.75 | 285 | 1.51E-04 | 4.29E-01 |
| D-14 | 40.5 | 1234.44 | 5.5 | 13.97 | 0.375 | 22.5 | 6.01E-04 | 1.70E+00 |
| D-15 | 13.5 | 411.48 | 5.5 | 13.97 | 10.25 | 615 | 5.20E-05 | 1.47E-01 |
| D-16 | 34 | 1036.32 | 5.5 | 13.97 | 2 | 120 | 1.30E-04 | 3.68E-01 |
| D-17 | 7 | 213.36 | 5.5 | 13.97 | 89 | 5340 | 9.68E-06 | 2.74E-02 |
| A-UB | 14 | 426.72 | 5.5 | 13.97 | 1.25 | 75 | 4.15E-04 | 1.18E+00 |
| B-S | 13.5 | 411.48 | 9 | 22.86 | 2.4 | 144 | 1.95E-04 | 5.53E-01 |
| C-S | 15 | 457.2 | 9 | 22.86 | 3.75 | 225 | 1.16E-04 | 3.28E-01 |
| C-UB | 15.7 | 478.536 | 7.92 | 20.1168 | 6.75 | 405 | 6.43E-05 | 1.82E-01 |
| D-VF2 | 10 | 304.8 | 9 | 22.86 | 0.75 | 45 | 7.72E-04 | 2.19E+00 |
| D-VF3 | 9 | 274.32 | 9 | 22.86 | 1.25 | 75 | 4.98E-04 | 1.41E+00 |
| E-VF1 | 9.5 | 289.56 | 9 | 22.86 | 0.12 | 7.2 | 5.00E-03 | 1.42E+01 |
| E-VF2 | 14 | 426.72 | 9 | 22.86 | 18 | 1080 | 2.53E-05 | 7.18E-02 |
| E-VF3 | 14 | 426.72 | 4.5 | 11.43 | 0.4 | 24 | 1.36E-03 | 3.85E+00 |
| E-VF4 | 7 | 213.36 | 9 | 22.86 | 2.1 | 126 | 3.51E-04 | 9.96E-01 |
| E-LB | 15.5 | 472.44 | 4.5 | 11.43 | 1.25 | 75 | 4.02E-04 | 1.14E+00 |
| F-VF3 | 17 | 518.16 | 4.5 | 11.43 | 1.1 | 66 | 4.25E-04 | 1.21E+00 |
| F-VF4 | 15 | 457.2 | 4.5 | 11.43 | 6 | 360 | 8.59E-05 | 2.43E-01 |
| F-VF6 | 16 | 487.68 | 3.5 | 8.89 | 16.5 | 990 | 3.14E-05 | 8.90E-02 |
| F-LB | 15 | 457.2 | 4.75 | 12.065 | 0.3 | 18 | 1.70E-03 | 4.81E+00 |
| G-UB | 14.5 | 441.96 | 5.5 | 13.97 | 0.275 | 16.5 | 1.83E-03 | 5.20E+00 |
| H-S | 9 | 274.32 | 9 | 22.86 | 0.275 | 16.5 | 2.26E-03 | 5.42E+00 |
| H-UB | 14.5 | 441.96 | 5.5 | 13.97 | 0.12 | 7.2 | 4.20E-03 | 1.19E+01 |
| I-I | 12 | 365.76 | 5.5 | 13.97 | 0.6 | 36 | 9.70E-04 | 2.75E+00 |
| I-UB | 14.5 | 441.96 | 5.5 | 13.97 | 29 | 1740 | 1.74E-05 | 4.93E-02 |
| J-VF3 | 13.5 | 411.48 | 5.5 | 13.97 | 0.75 | 45 | 7.10E-04 | 2.01E+00 |
| J-VF4 | 14 | 426.72 | 9 | 22.86 | 2.1 | 126 | 2.17E-04 | 6.16E-01 |
| J-LB | 17 | 518.16 | 5.5 | 13.97 | 0.325 | 19.5 | 1.37E-03 | 3.90E+00 |
| K-VF2 | 18.5 | 563.88 | 9 | 22.86 | 2.75 | 165 | 1.35E-04 | 3.83E-01 |
| K-VF4 | 13 | 396.24 | 9 | 22.86 | 2.6 | 156 | 1.85E-04 | 5.25E-01 |
| K-LB | 19 | 579.12 | 7.92 | 20.1168 | 2 | 120 | 1.88E-04 | 5.33E-01 |
| L-VF2 | 14 | 426.72 | 9 | 22.86 | 195 | 11700 | 2.34E-06 | 6.63E-03 |
| L-LB | 17 | 518.16 | 5.5 | 13.97 | 19.5 | 1170 | 2.29E-05 | 6.50E-02 |

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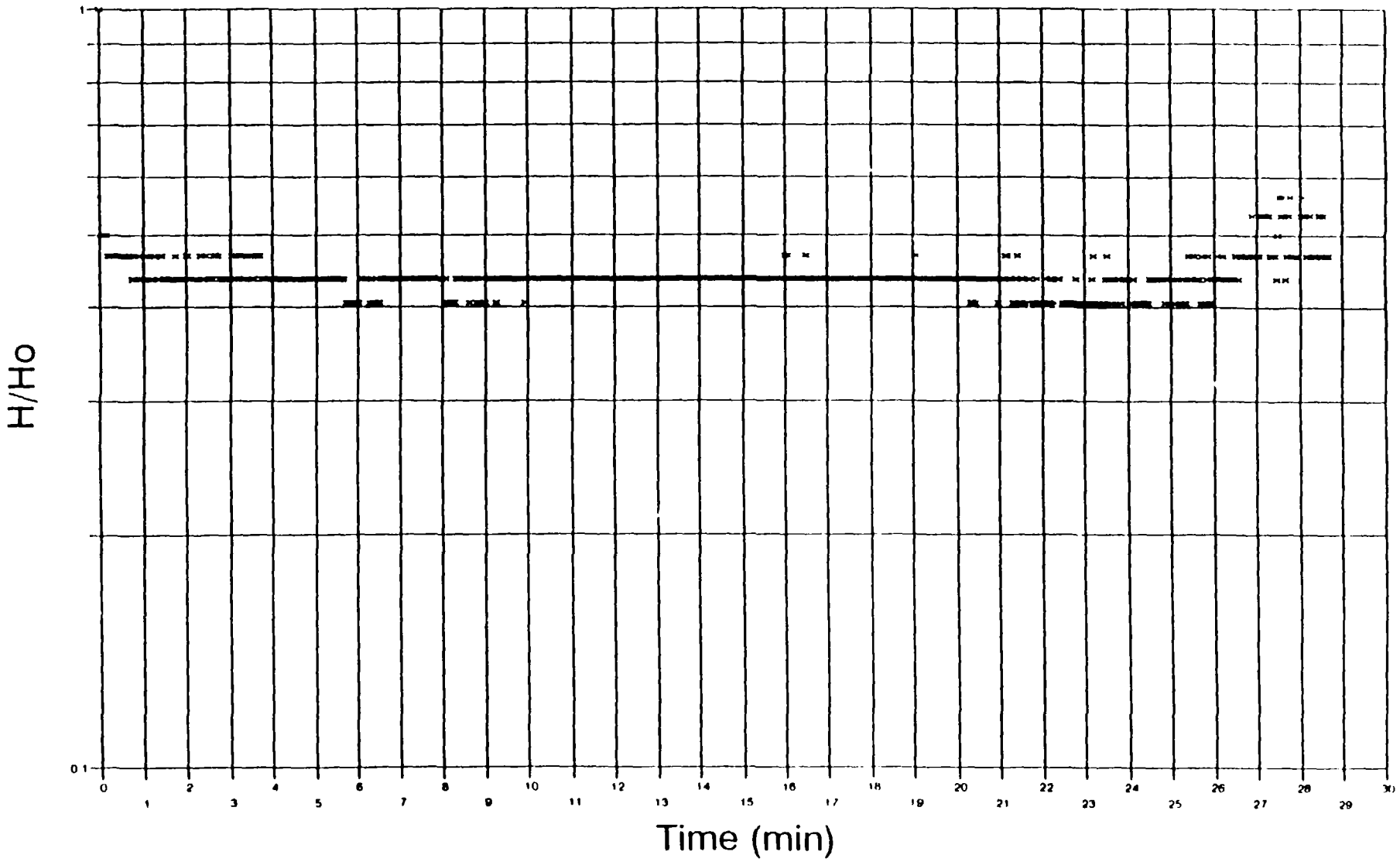
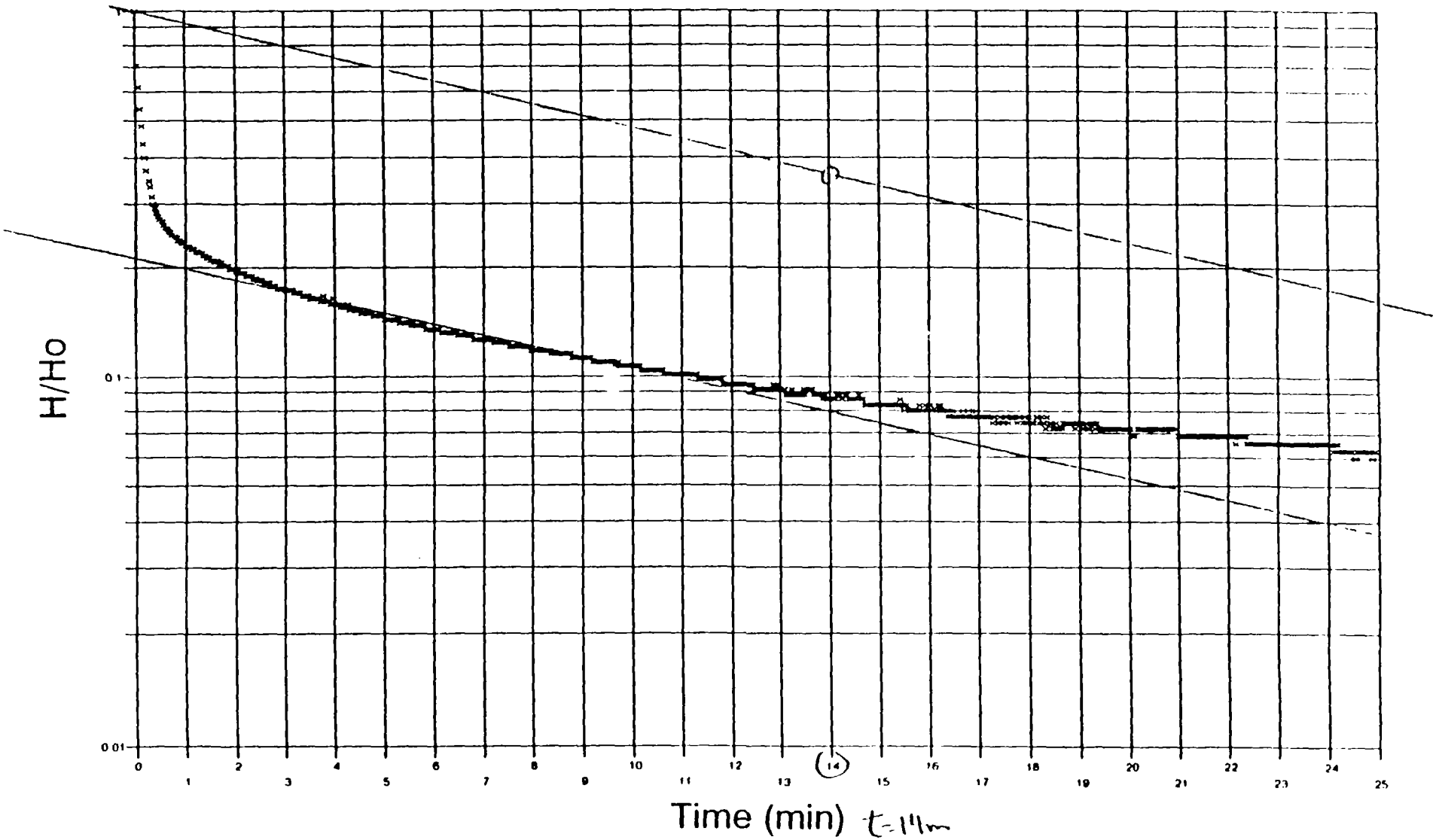
# Hvorslev Method

## S-3



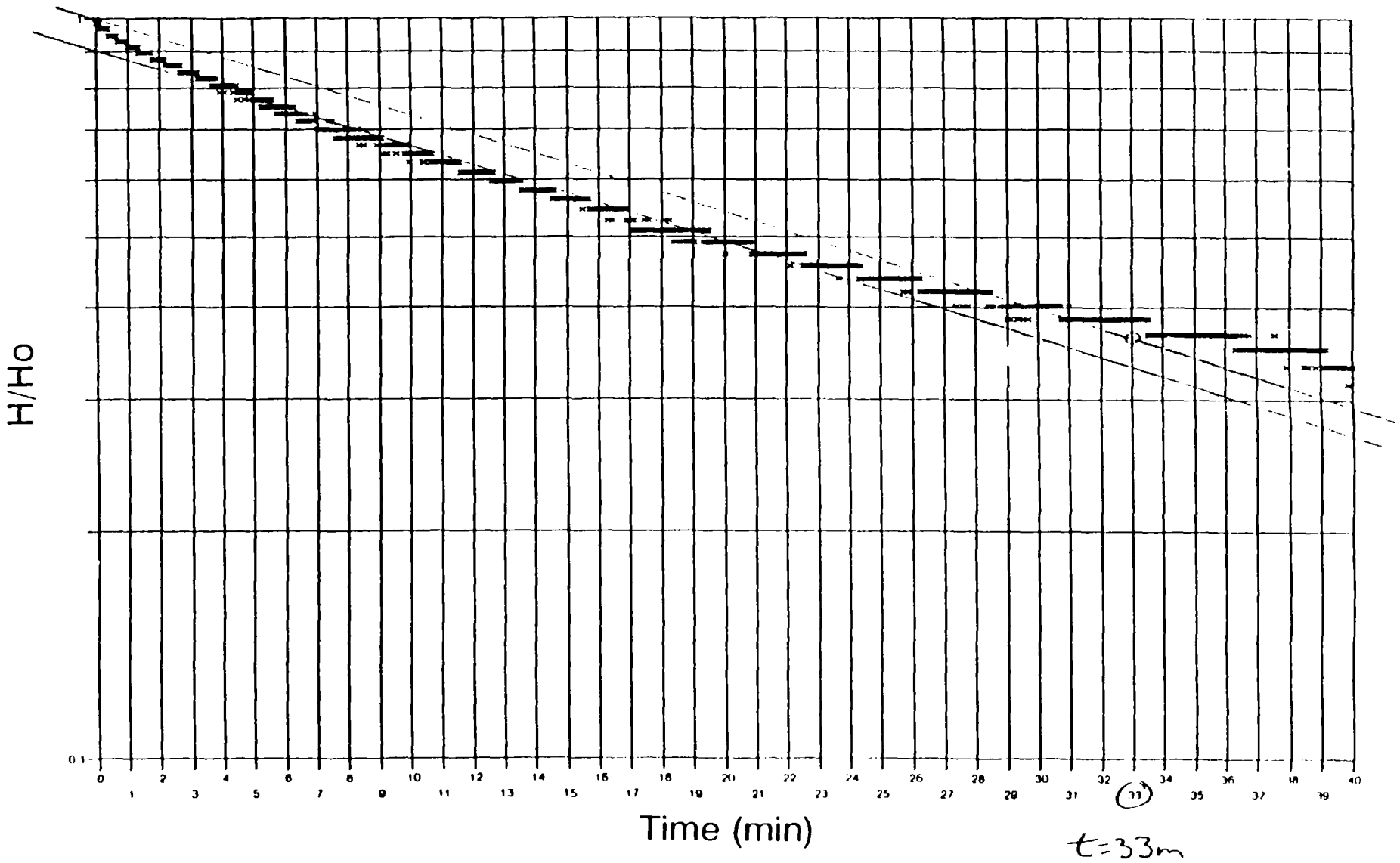
# Hvorslev Method

## S-4



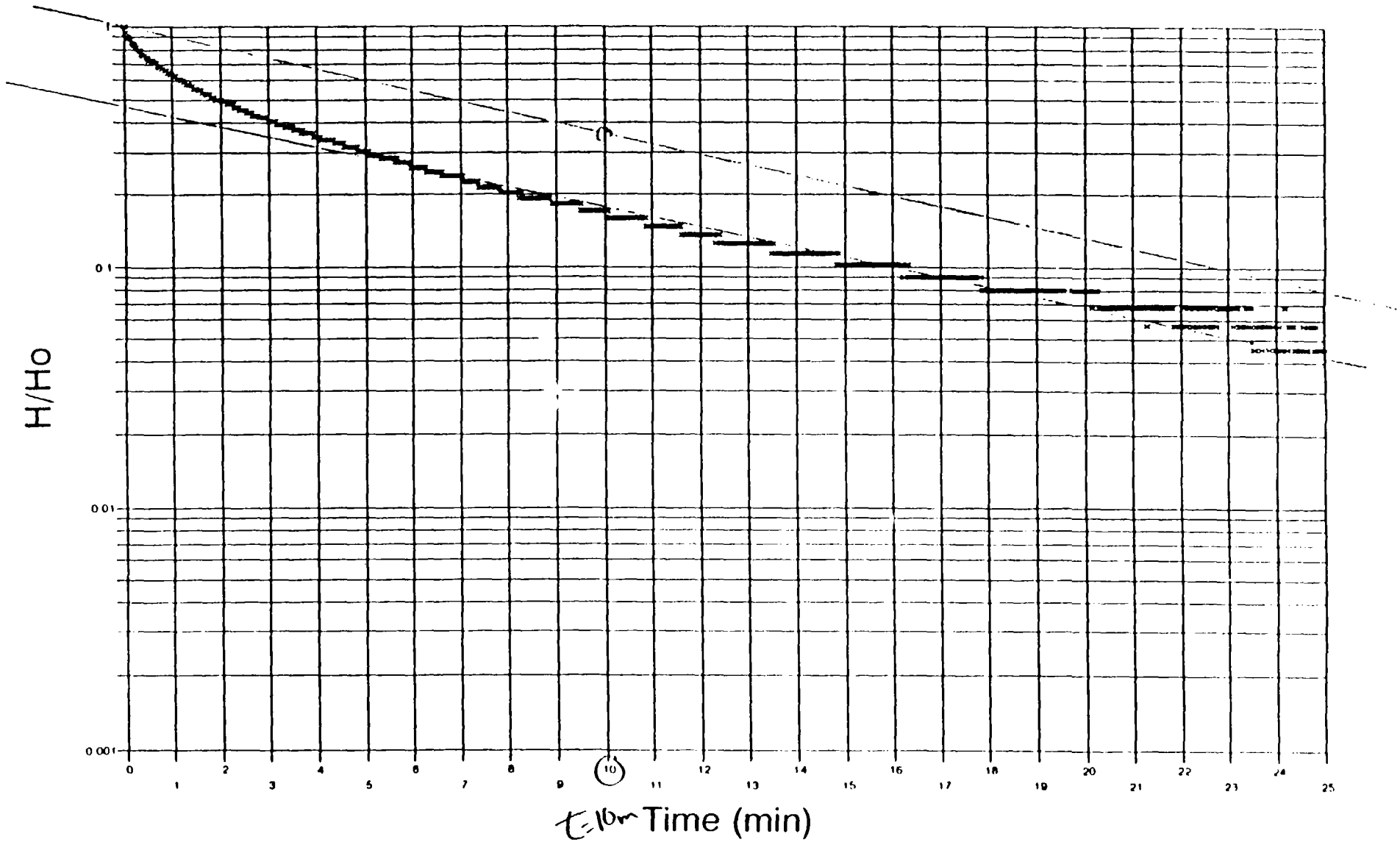
# Hvorslev Method

## S-6



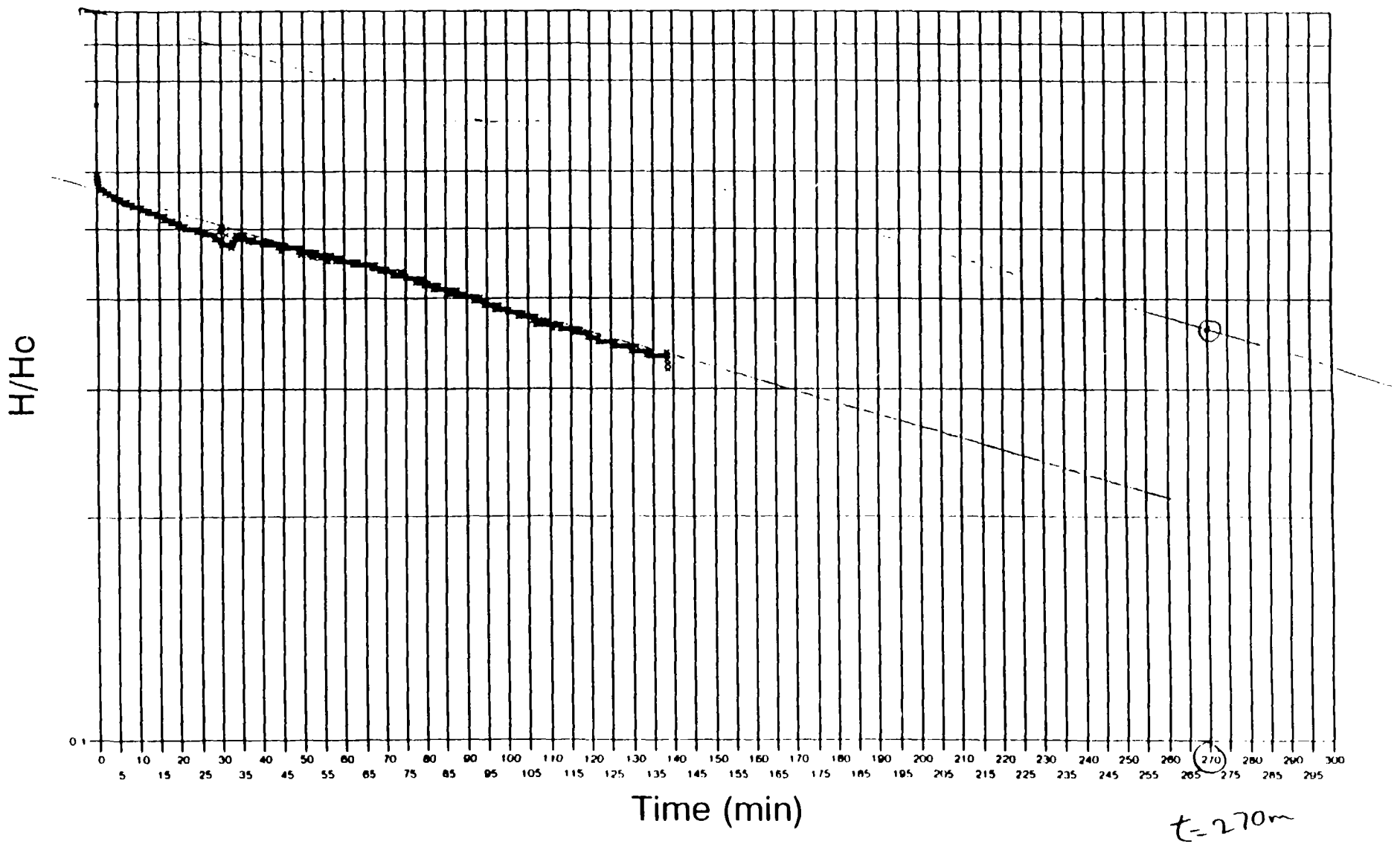
# Hvorslev Method

## S-7



# Hvorslev Method

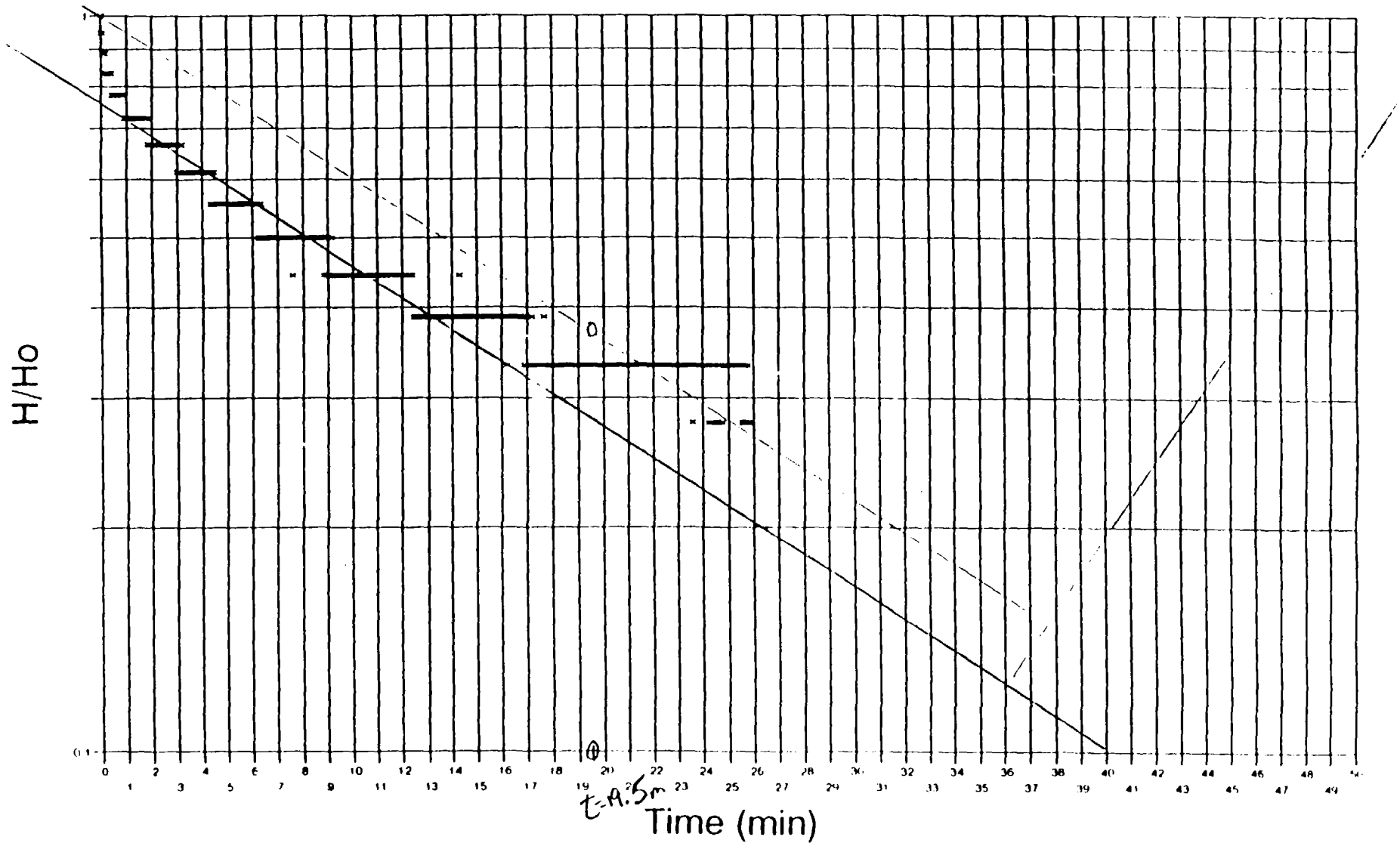
## S-9




t=270m

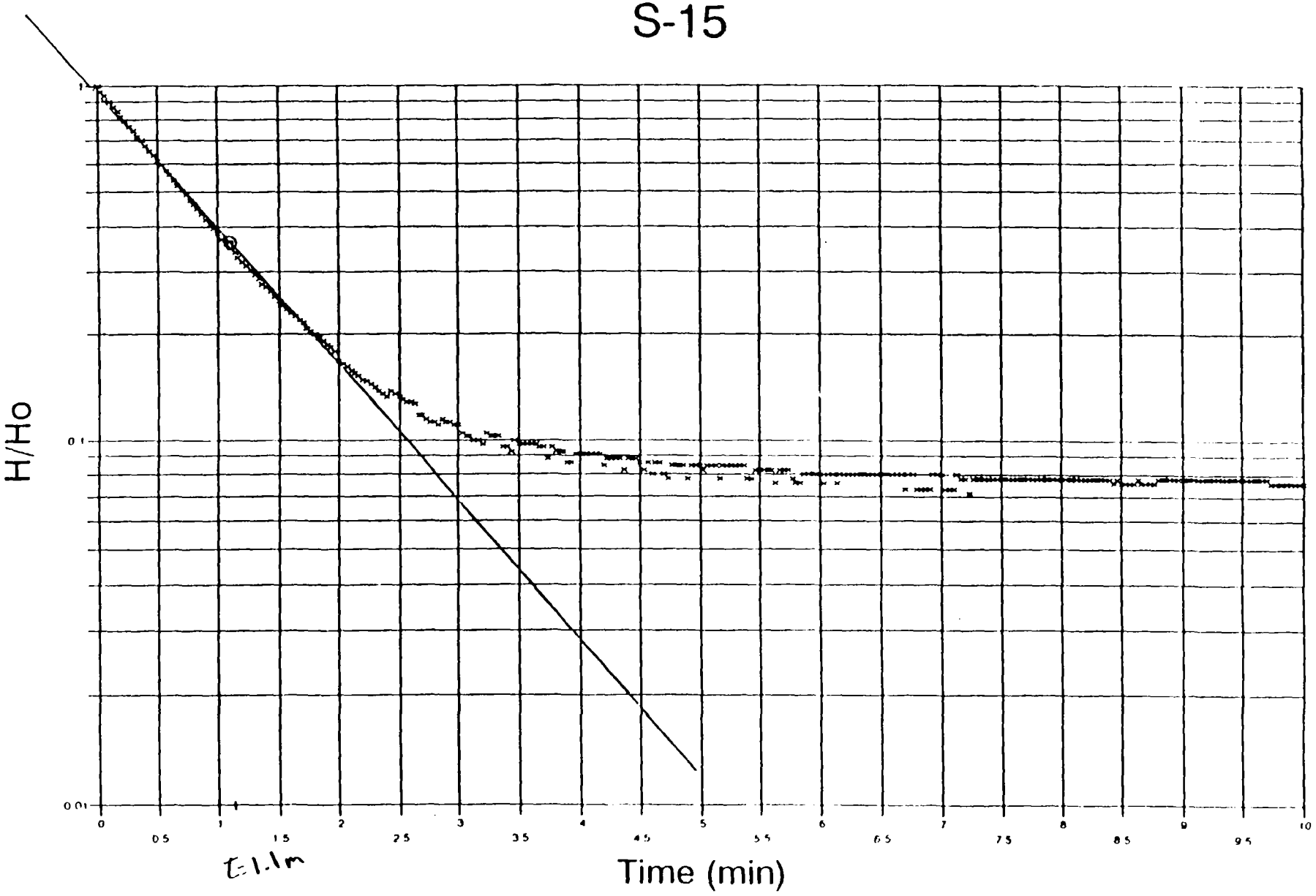
# Hvorslev Method

## S-12



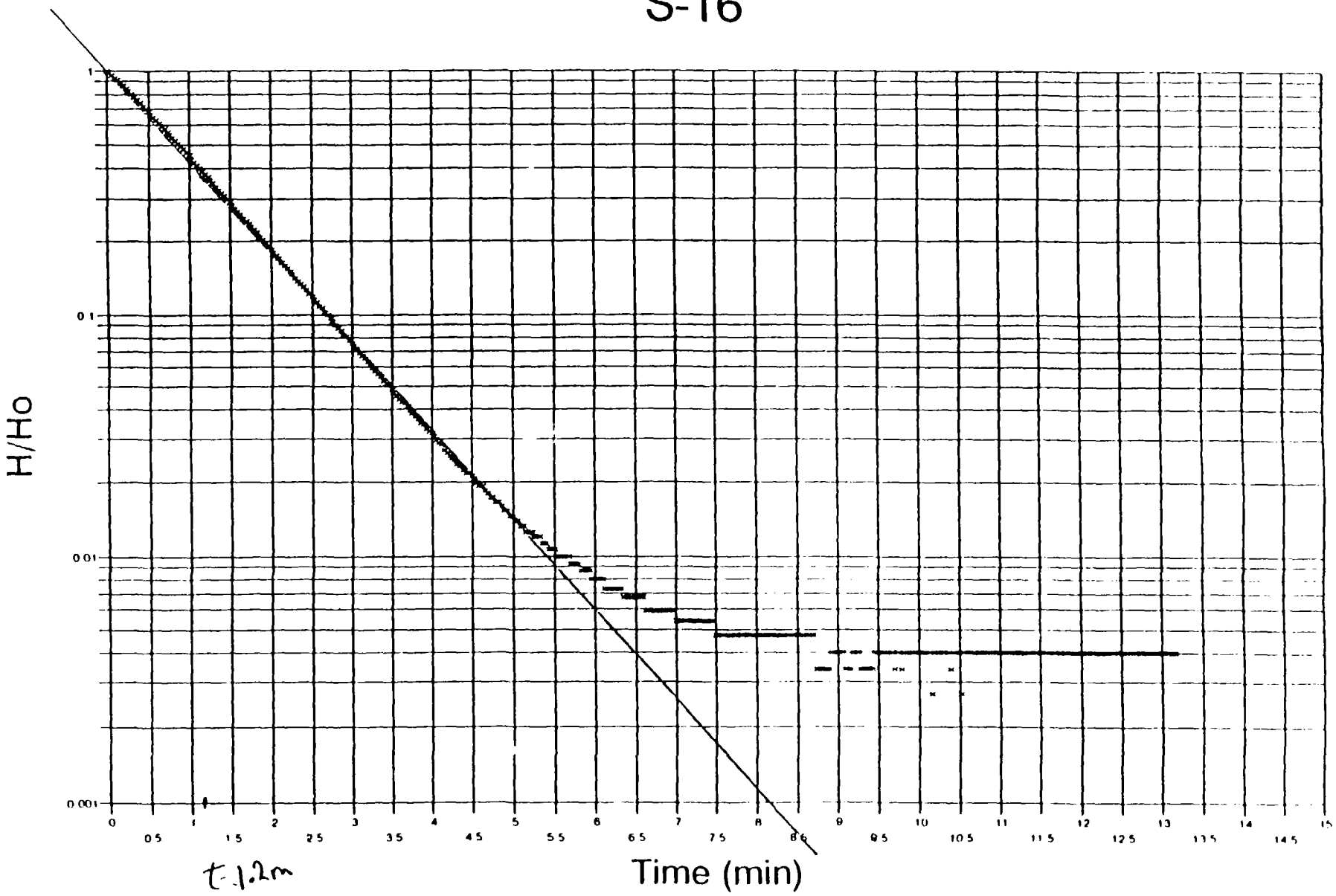
# Hvorslev Method

## S-15



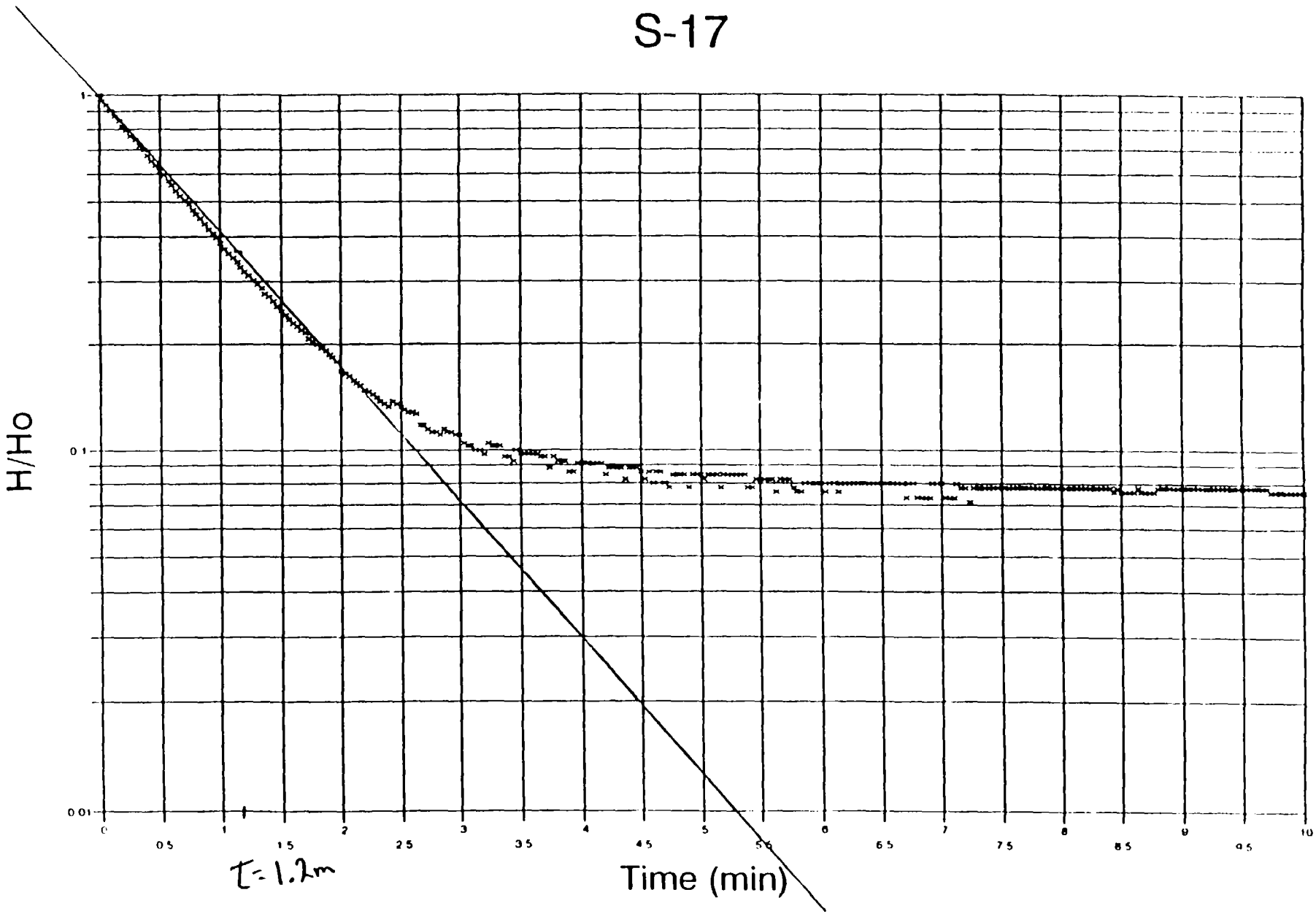
# Hvorslev Method

## S-16



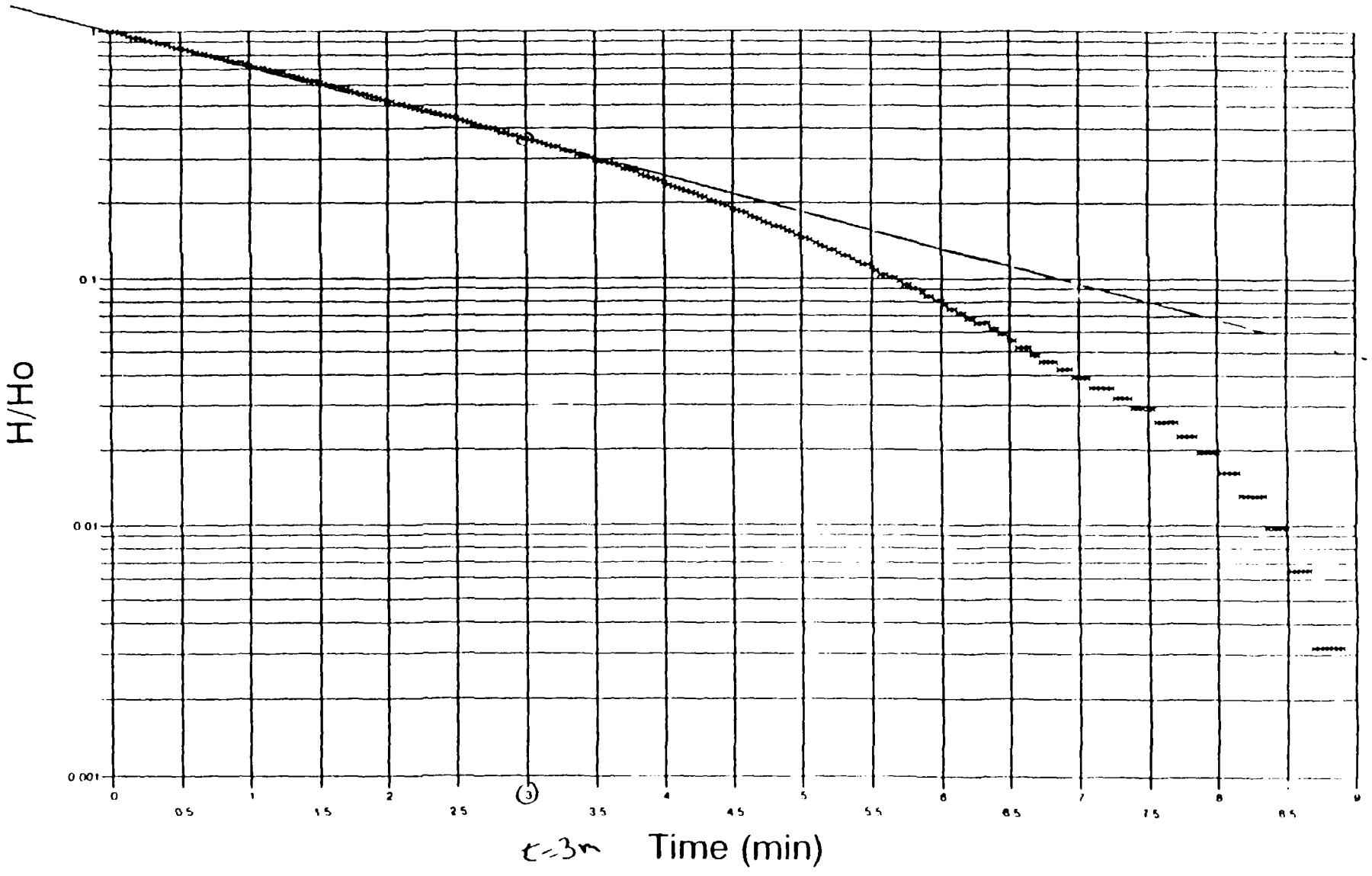
# Hvorslev Method

## S-17



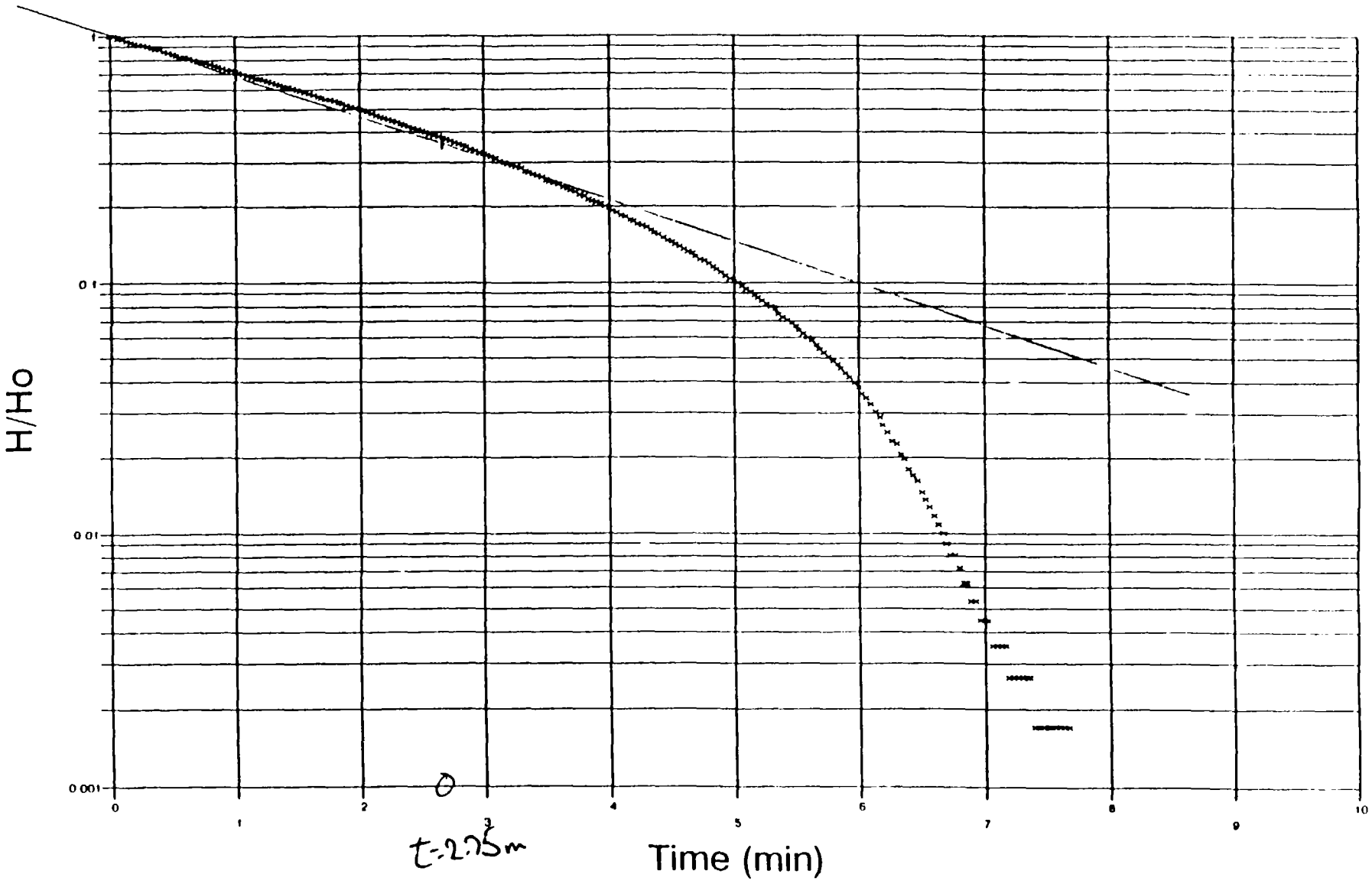
# Hvorslev Method

## S-19



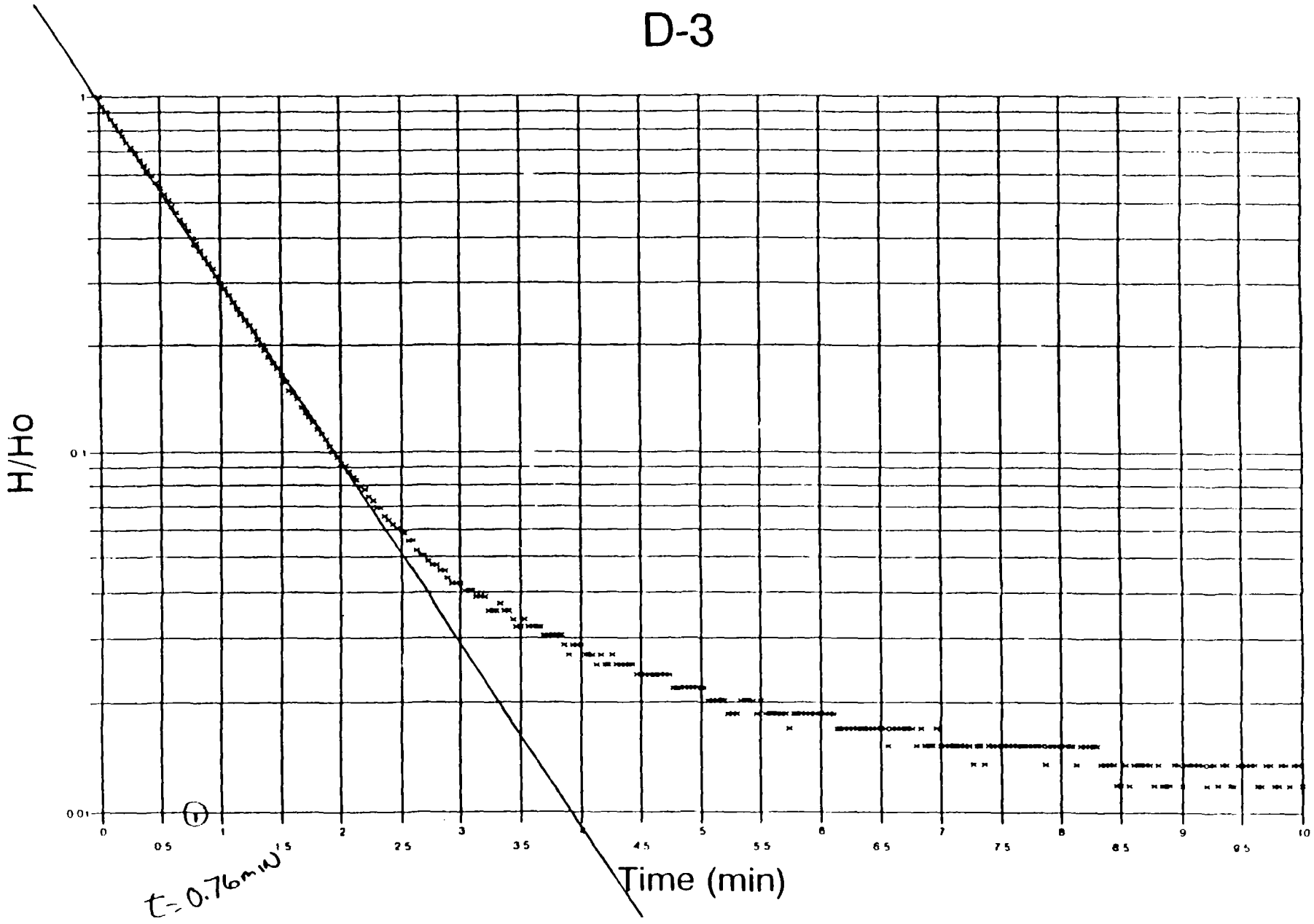
# Hvorslev Method

## D-1



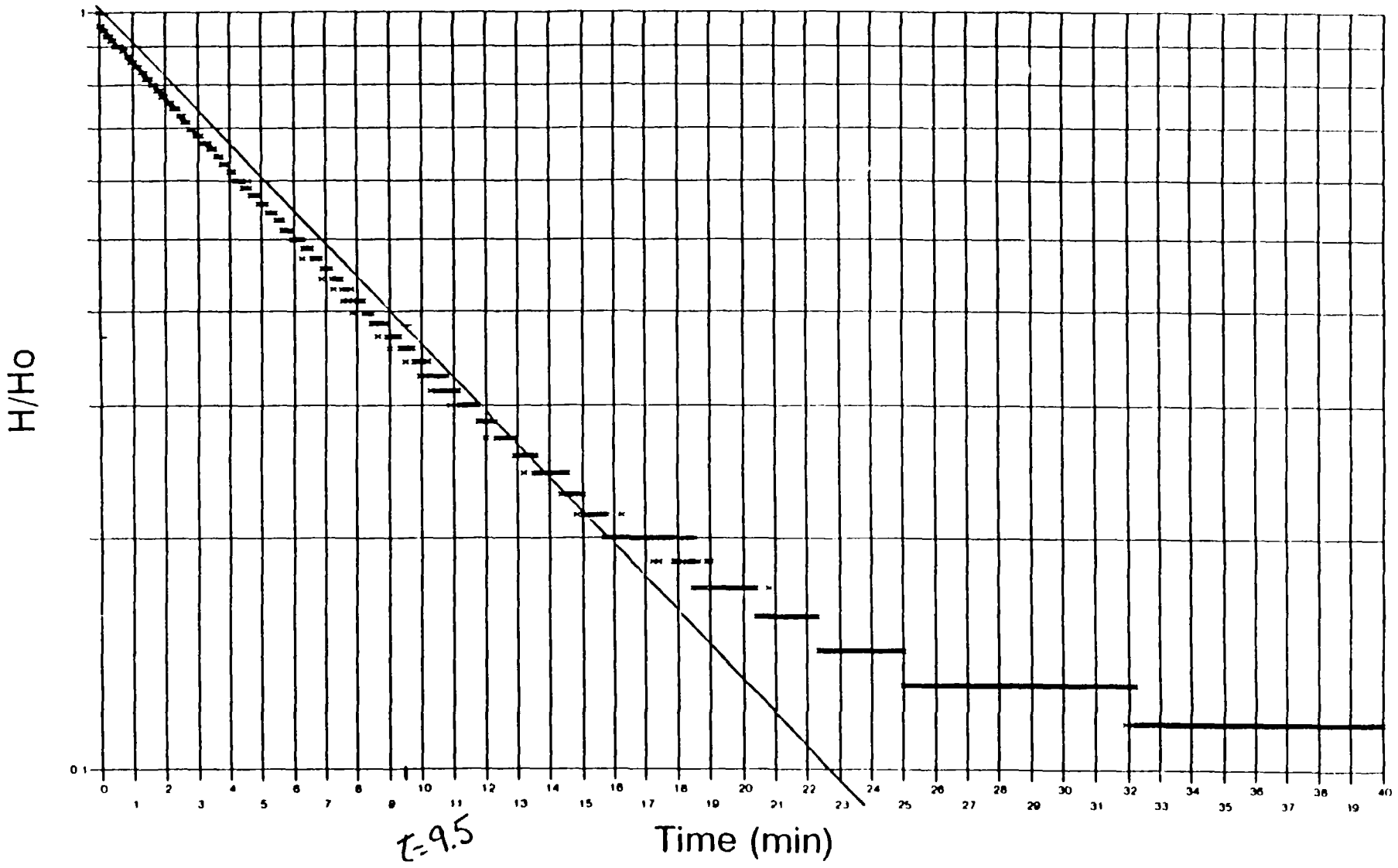
# Hvorslev Method

## D-3



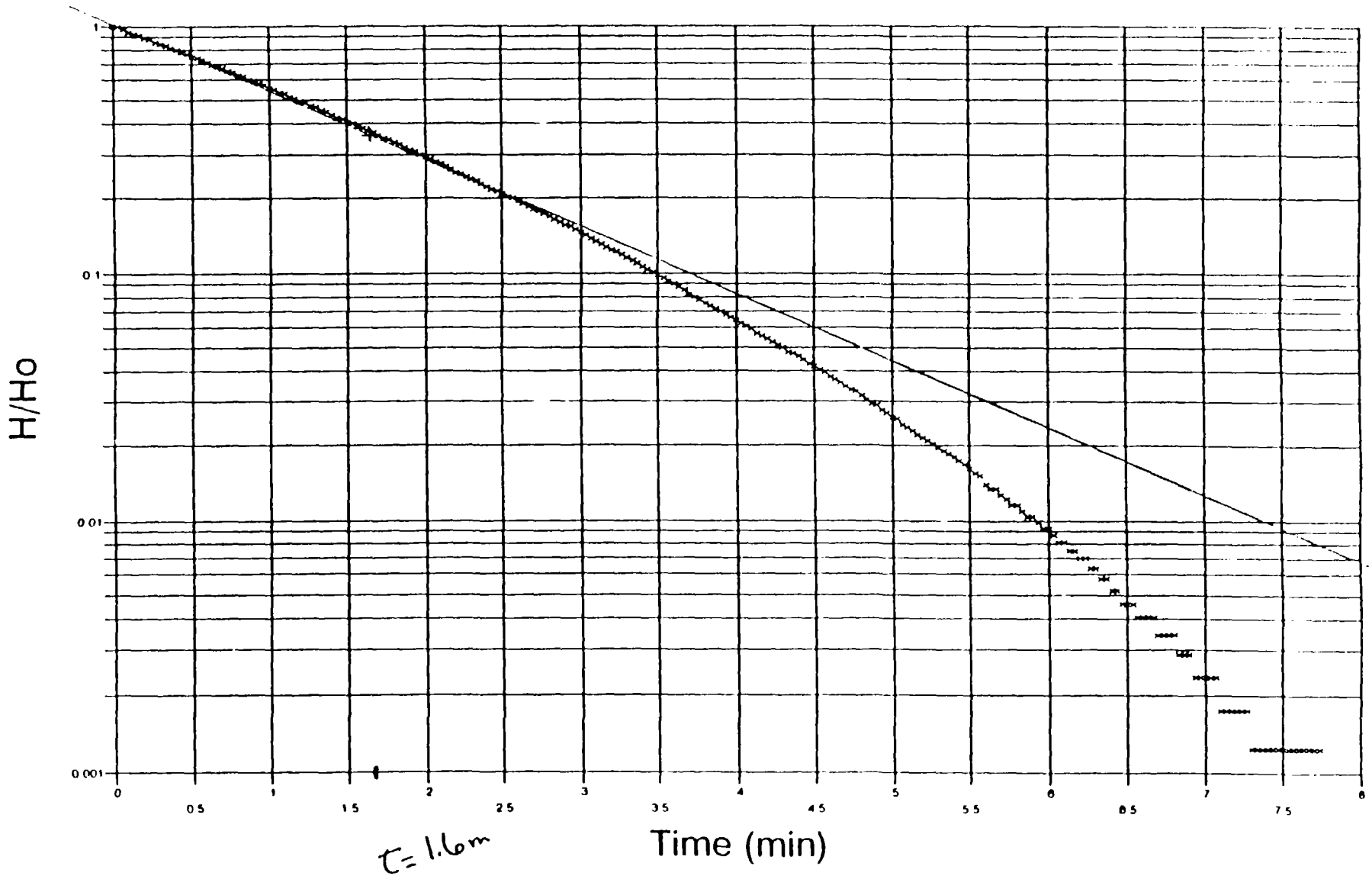
# Hvorslev Method

## D-4



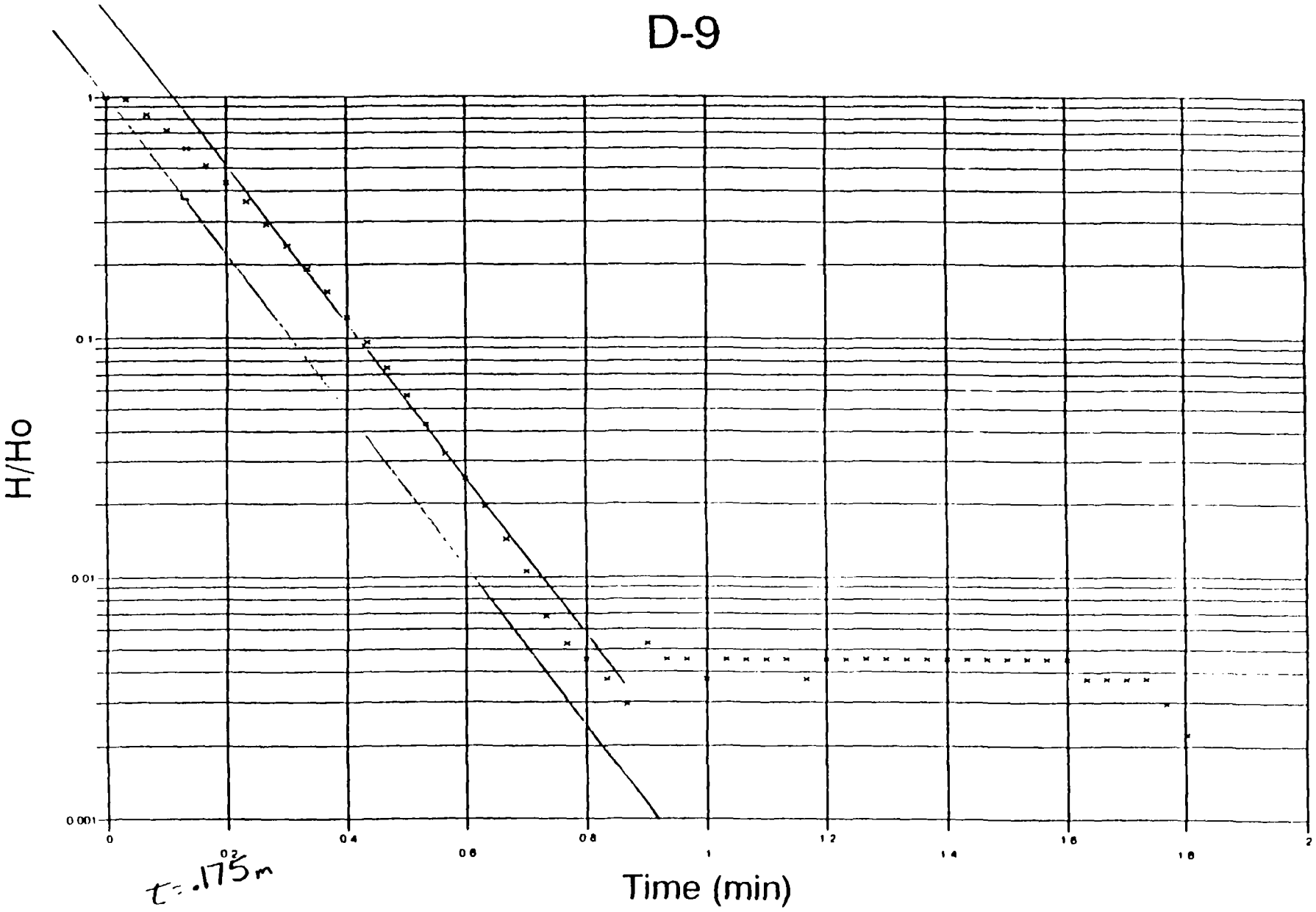
# Hvorslev Method

## D-8



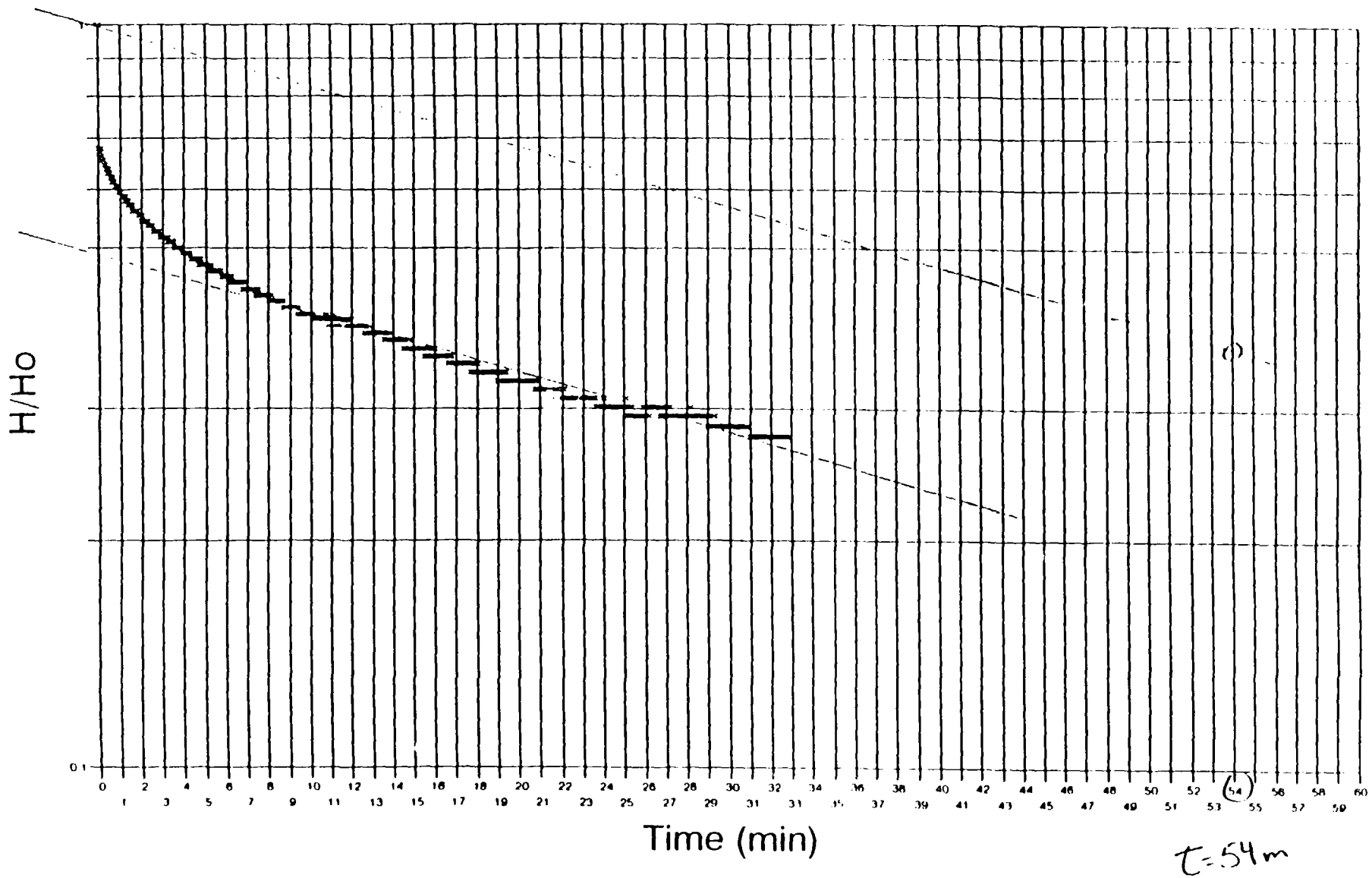
# Hvorslev Method

## D-9



# Hvorslev Method

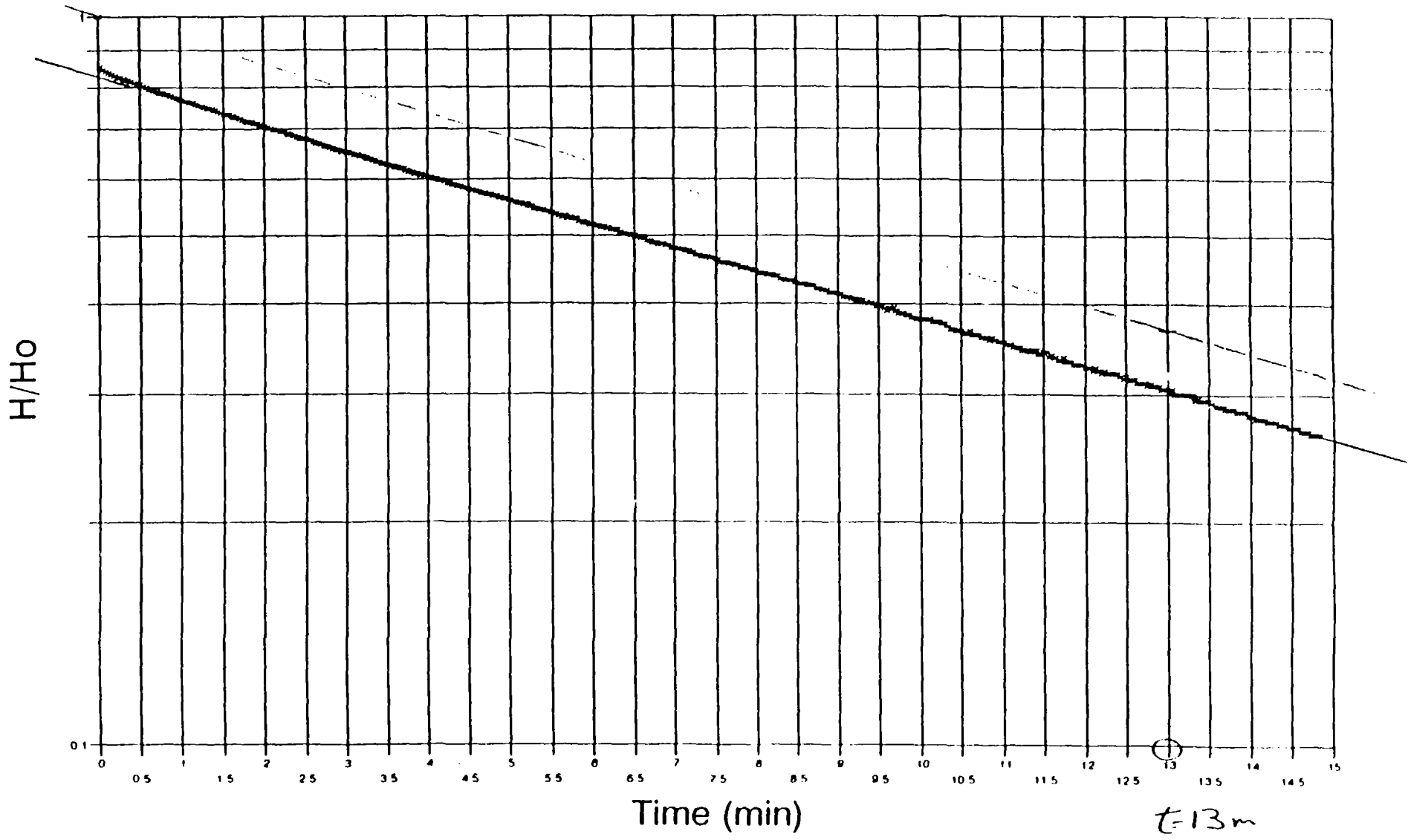
## D-10




t=54m

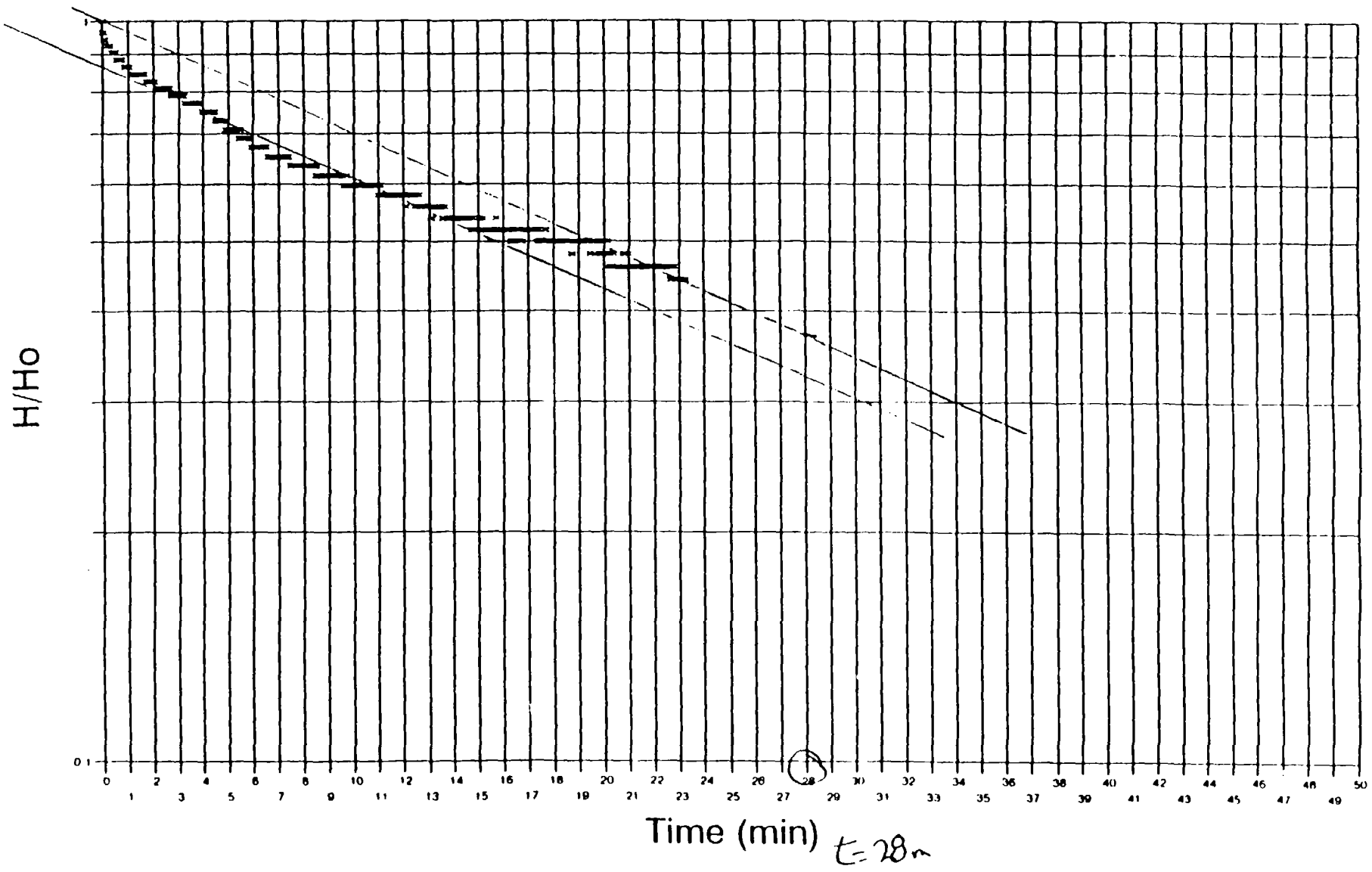
# Hvorslev Method

## D-11



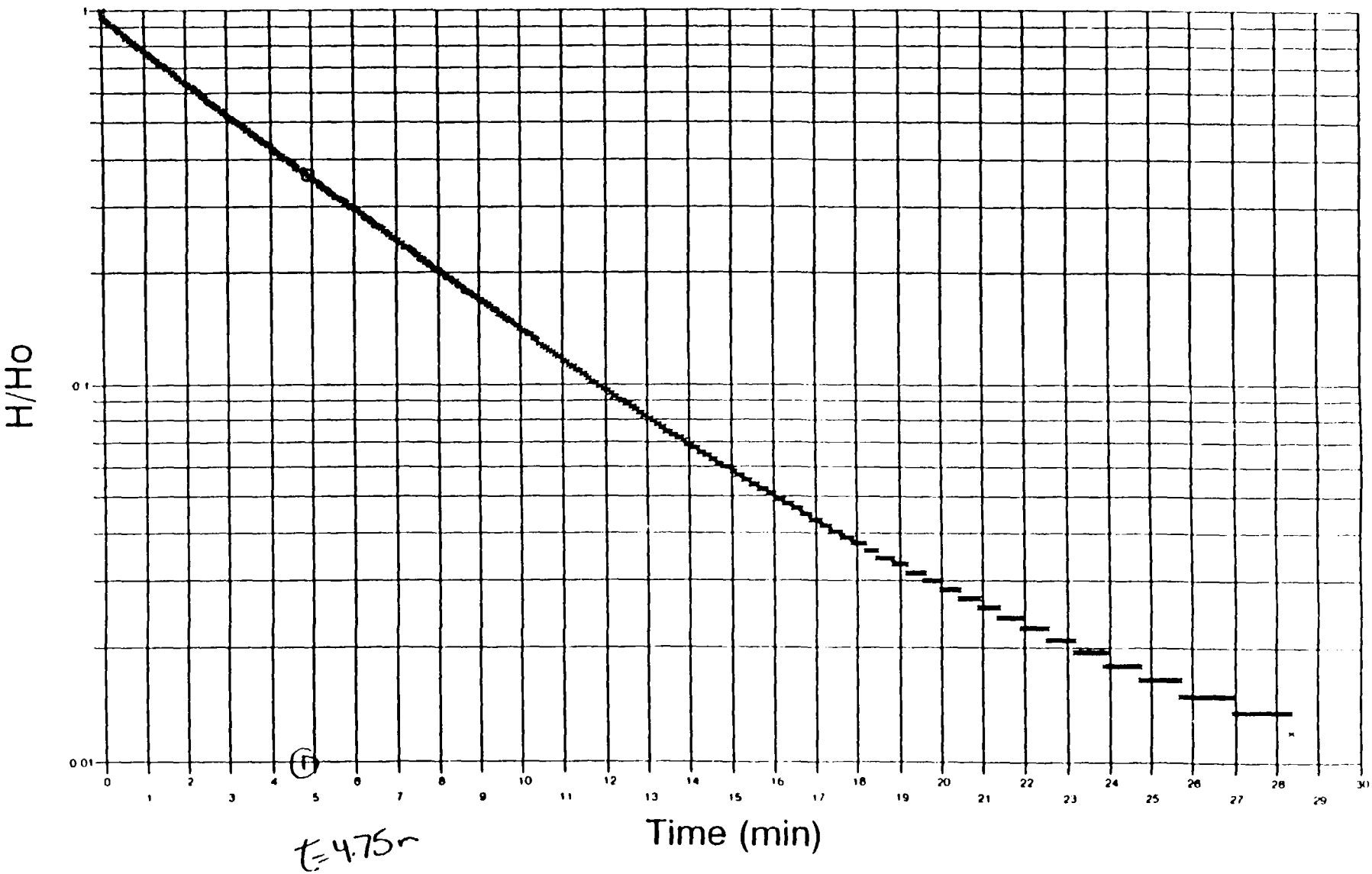
# Hvorslev Method

## D-12



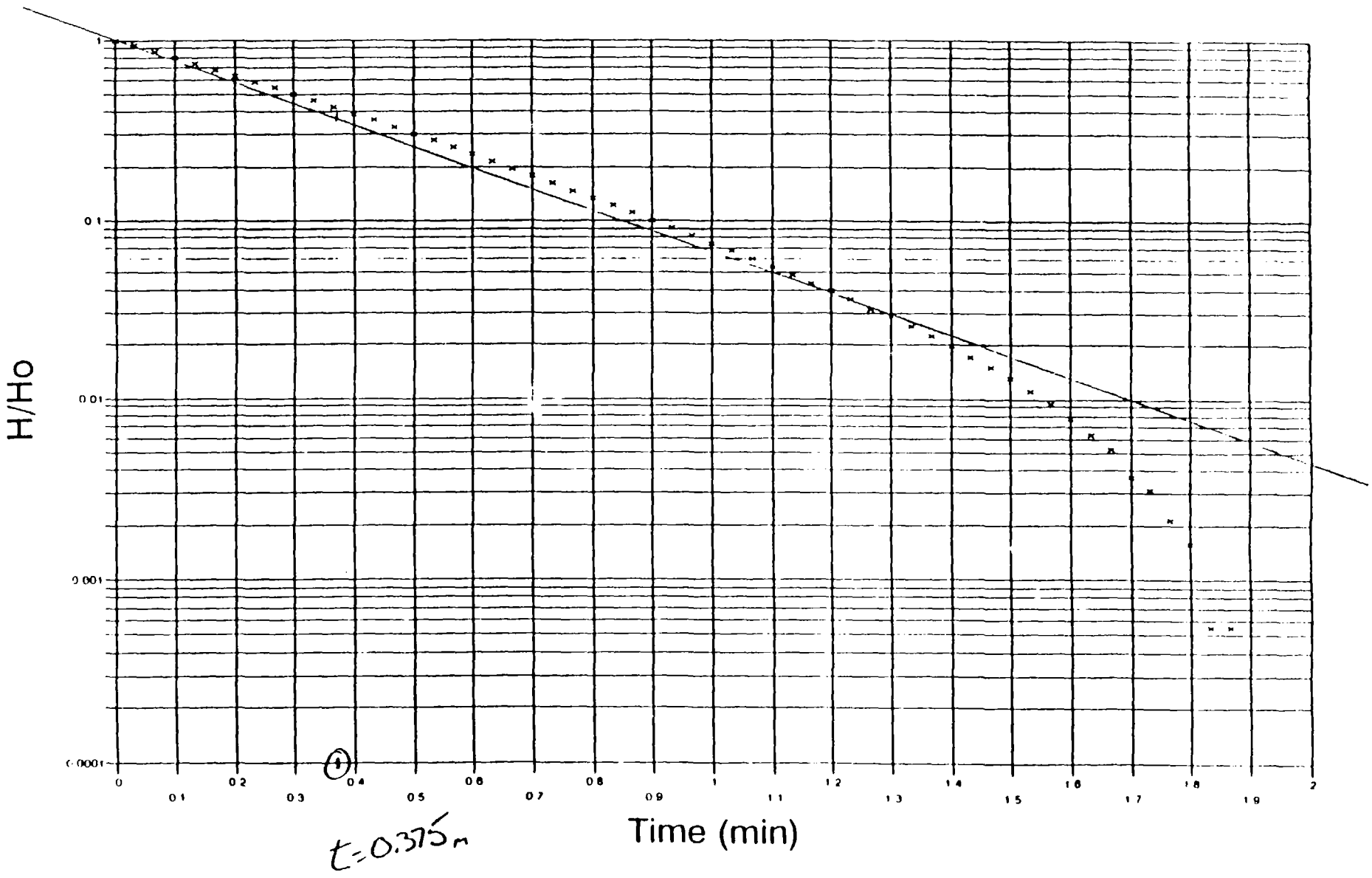
# Hvorslev Method

## D-13



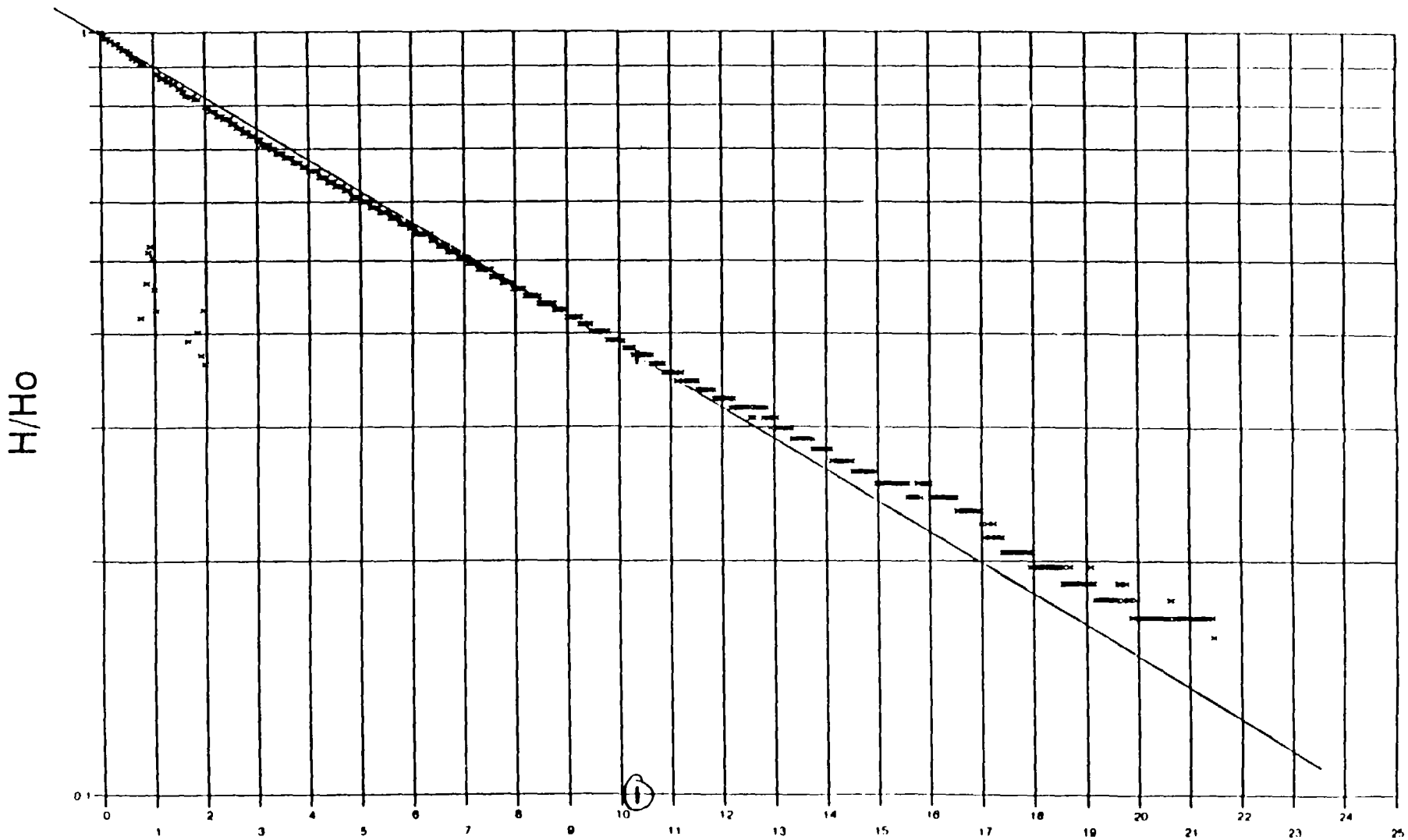
# Hvorslev Method

## D-14



# Hvorslev Method

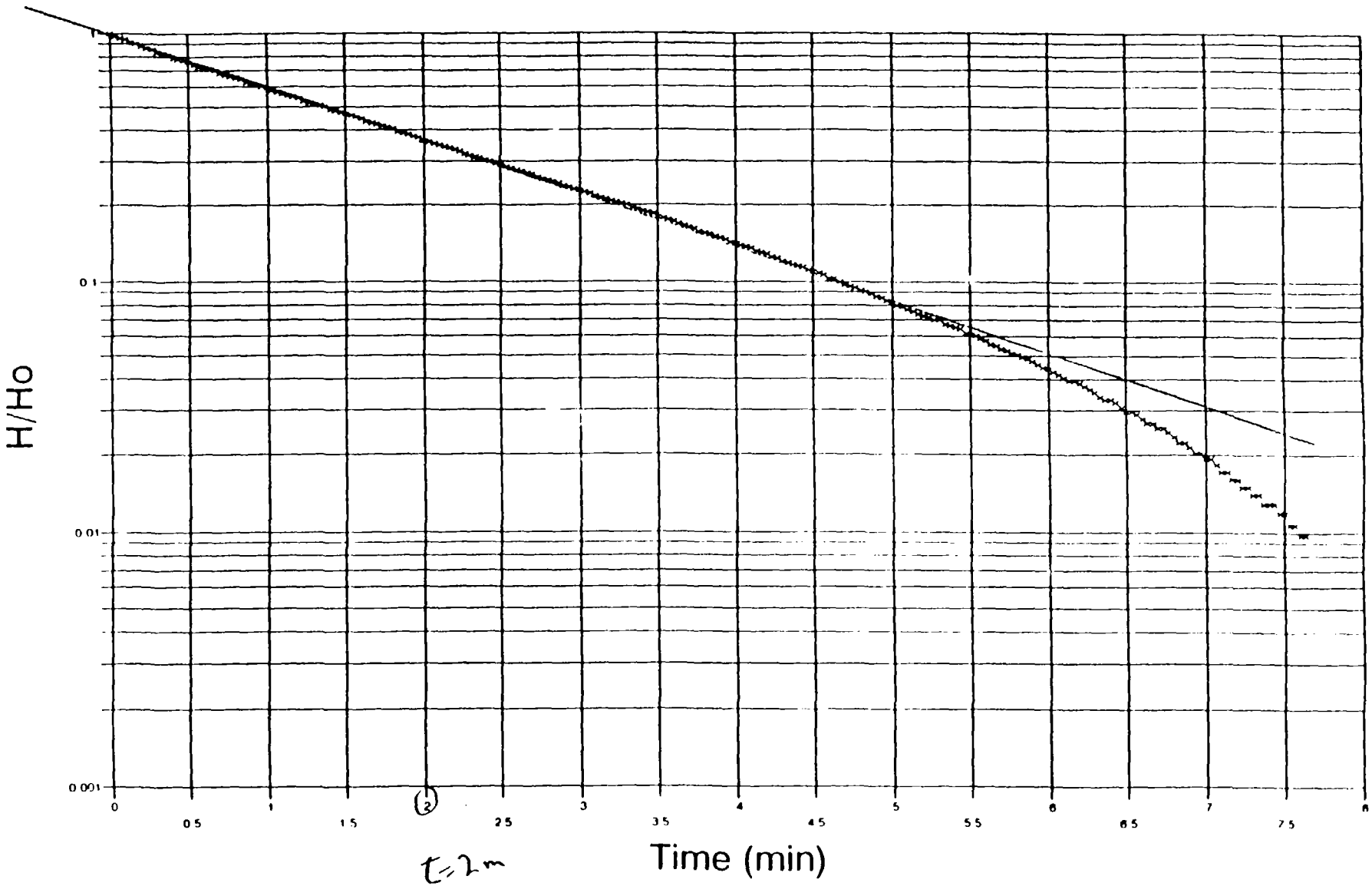
## D-15




t=10.25m

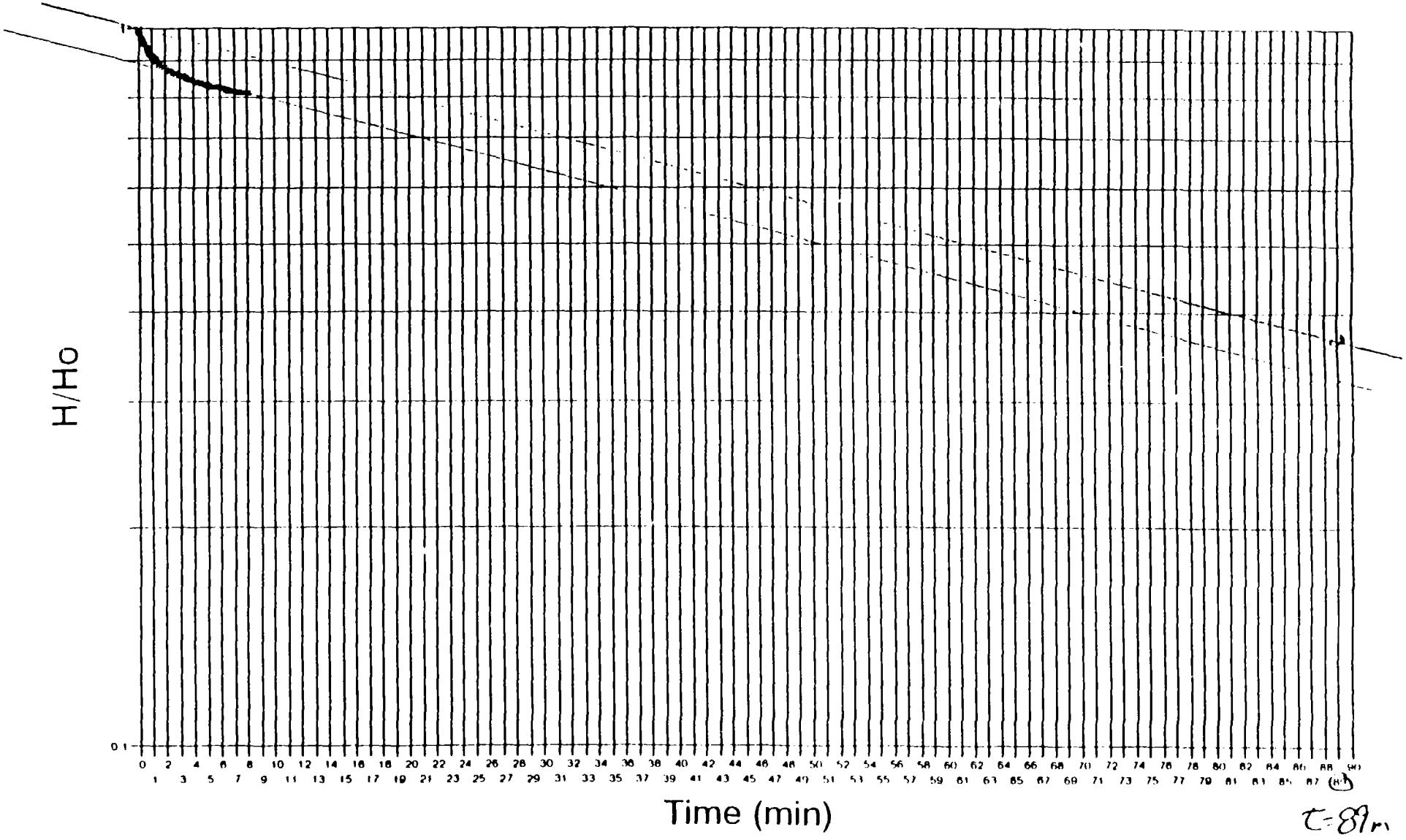
# Hvorslev Method

## D-16



# Hvorslev Method

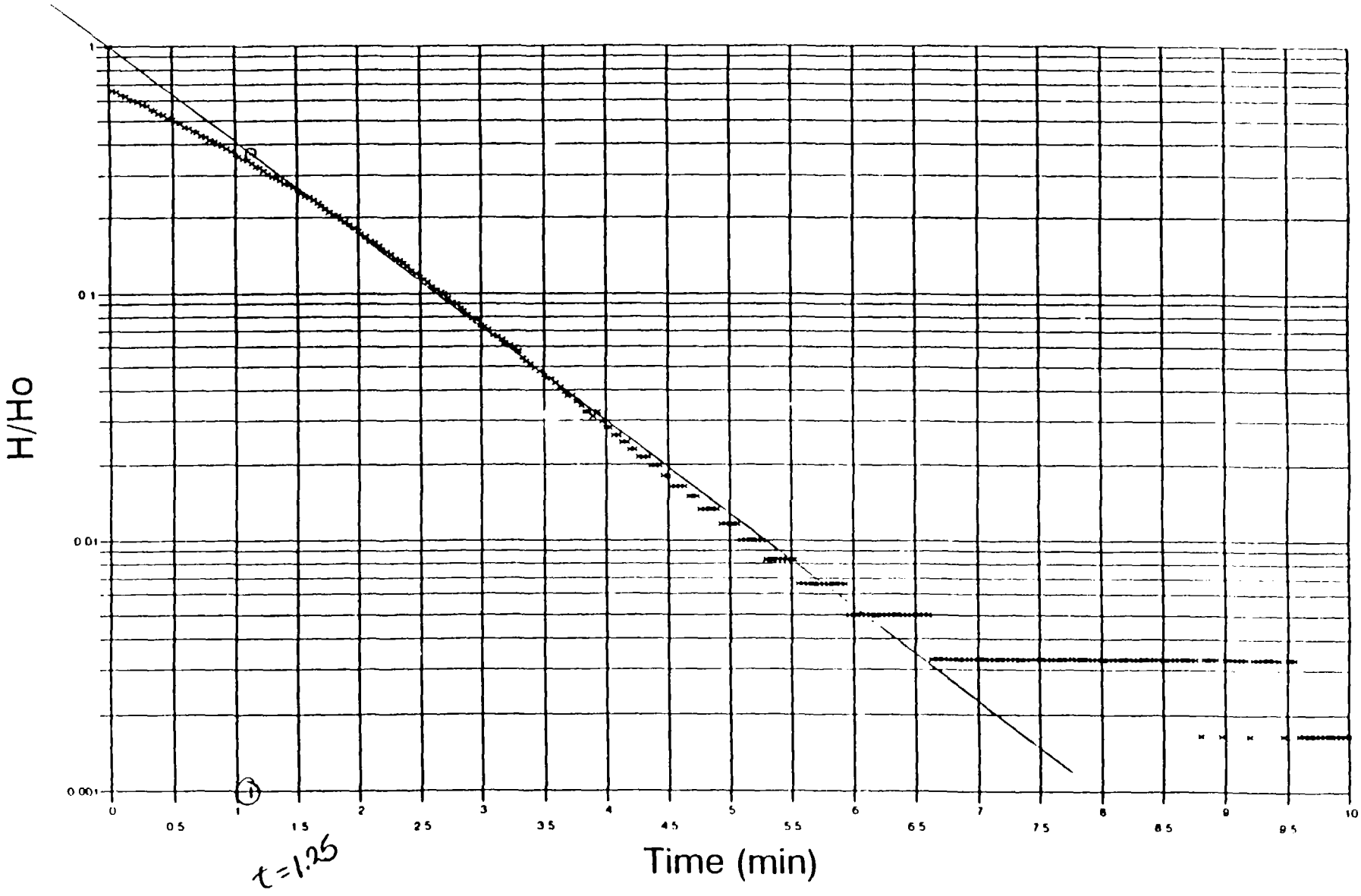
## D-17




$\tau = 89$ m

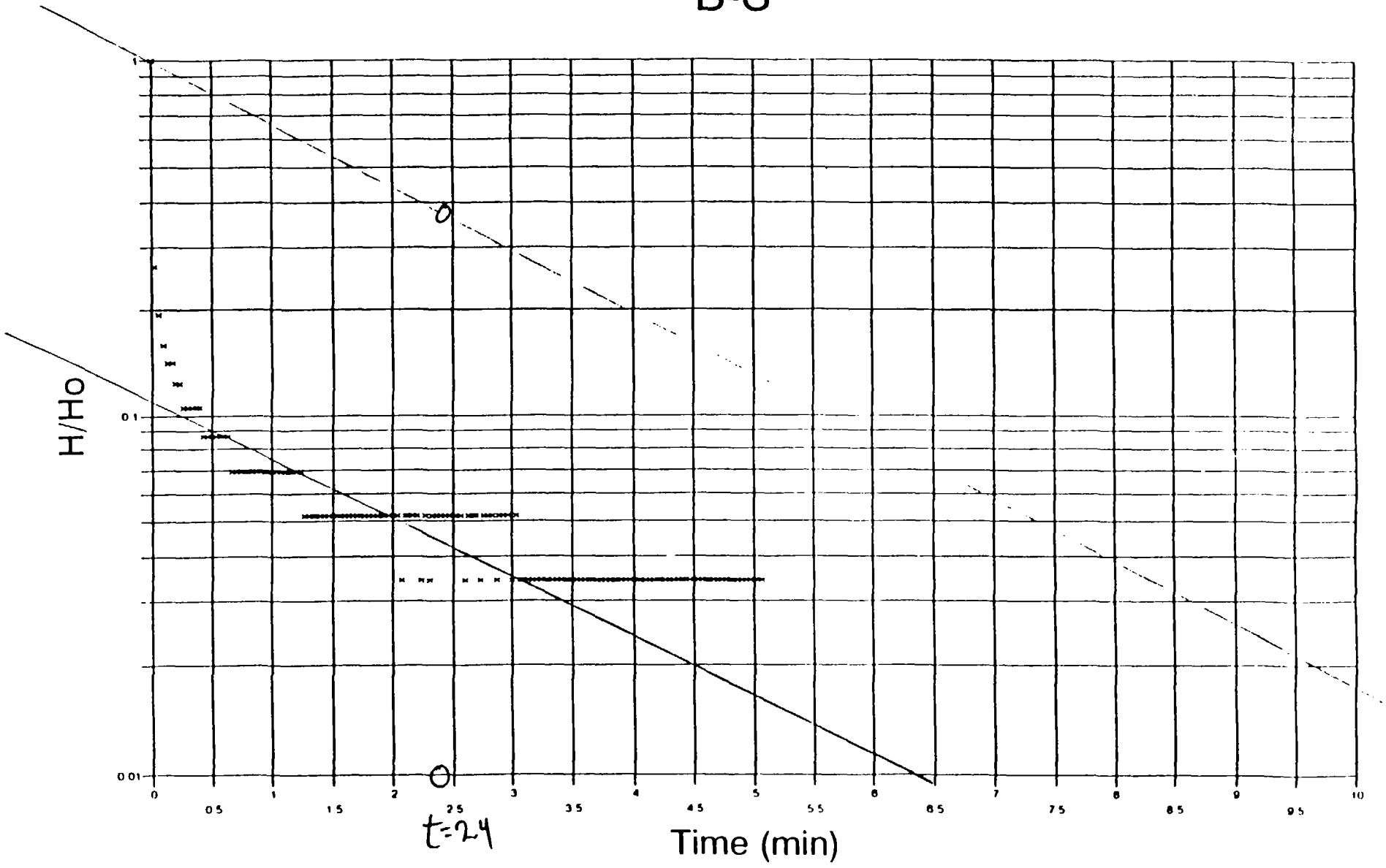
# Hvorslev Method

## AUB



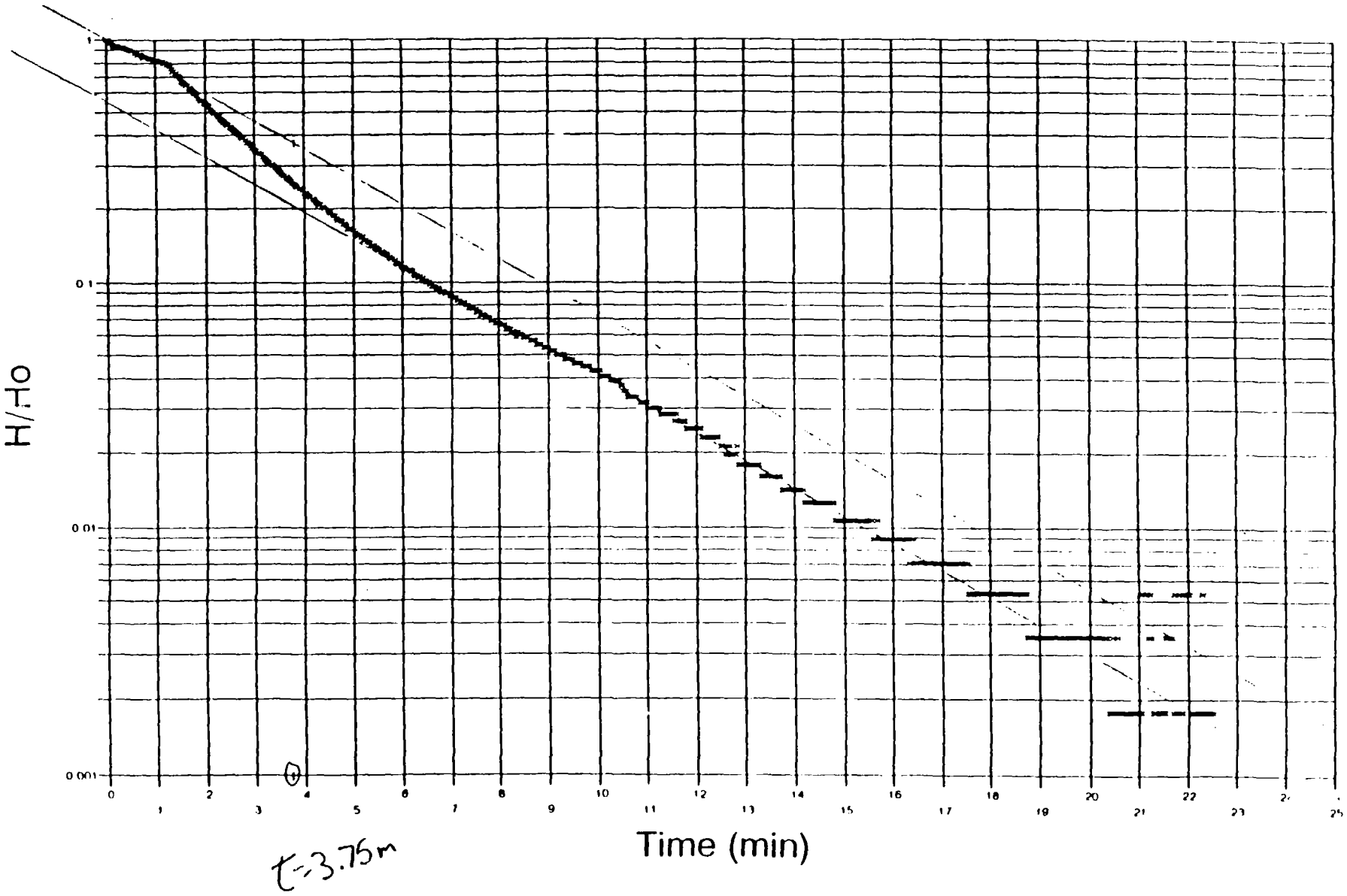
# Hvorslev Method

## B-S



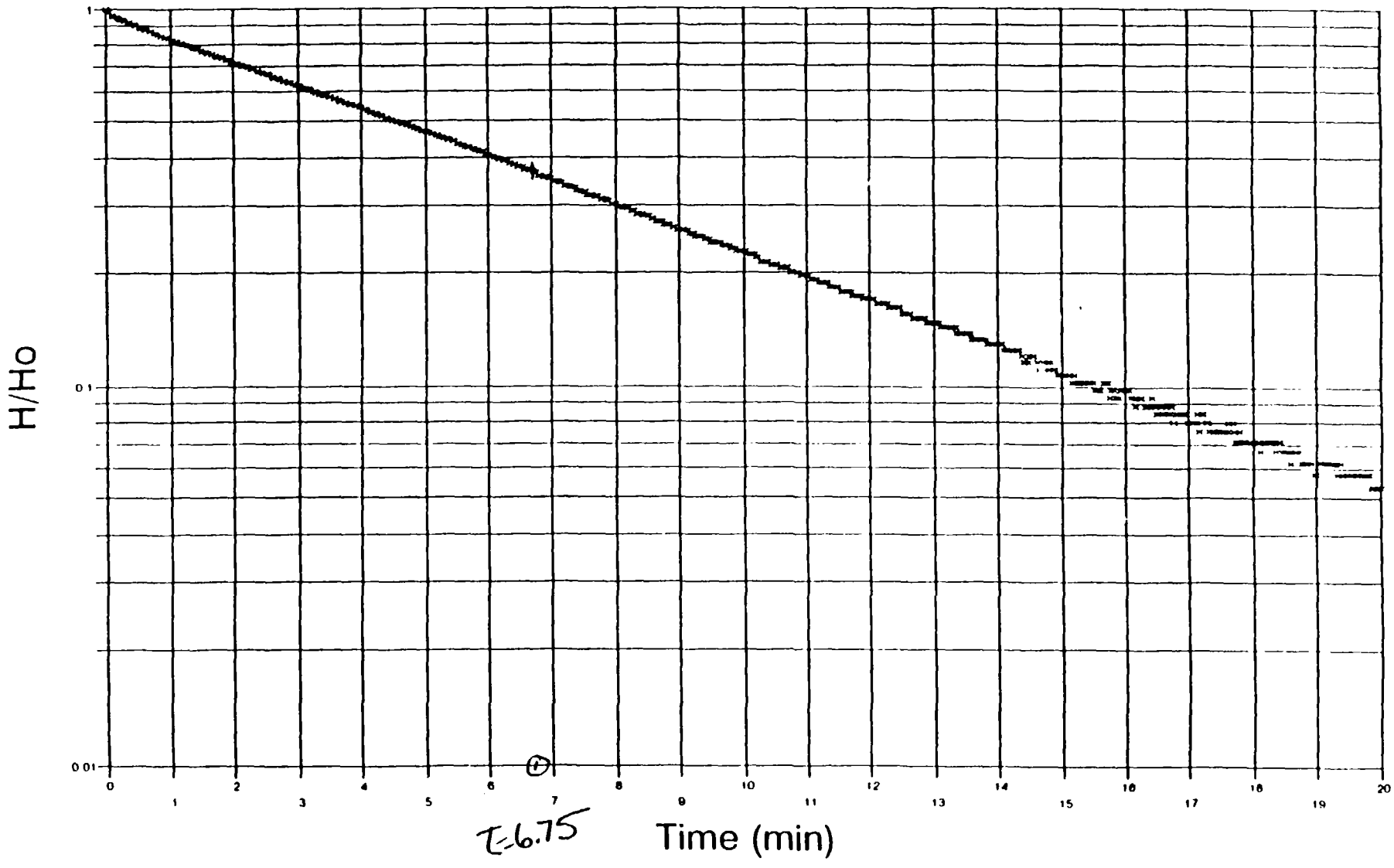
# Hvorslev Method

## C-S



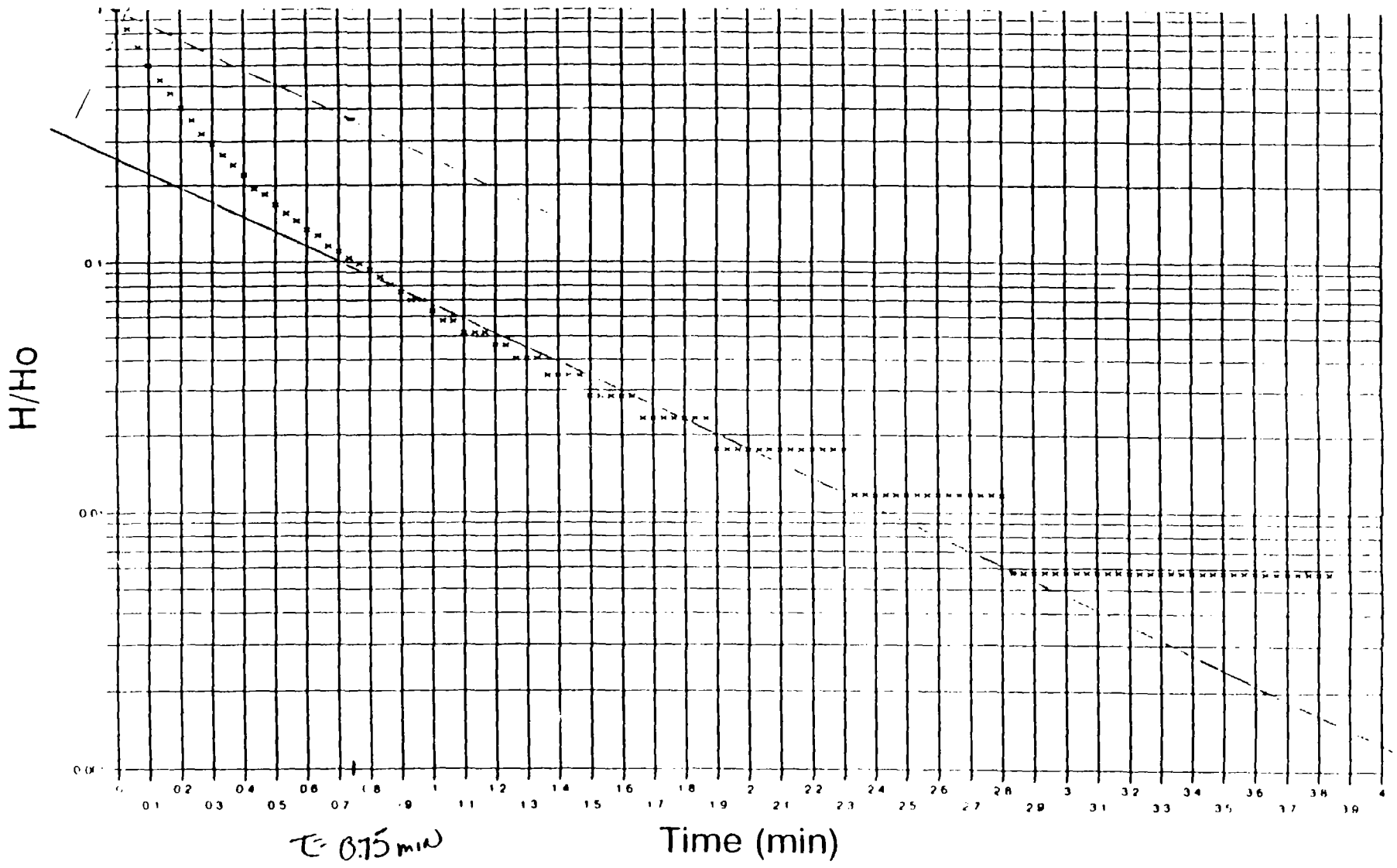
# Hvorslev Method

## CUB



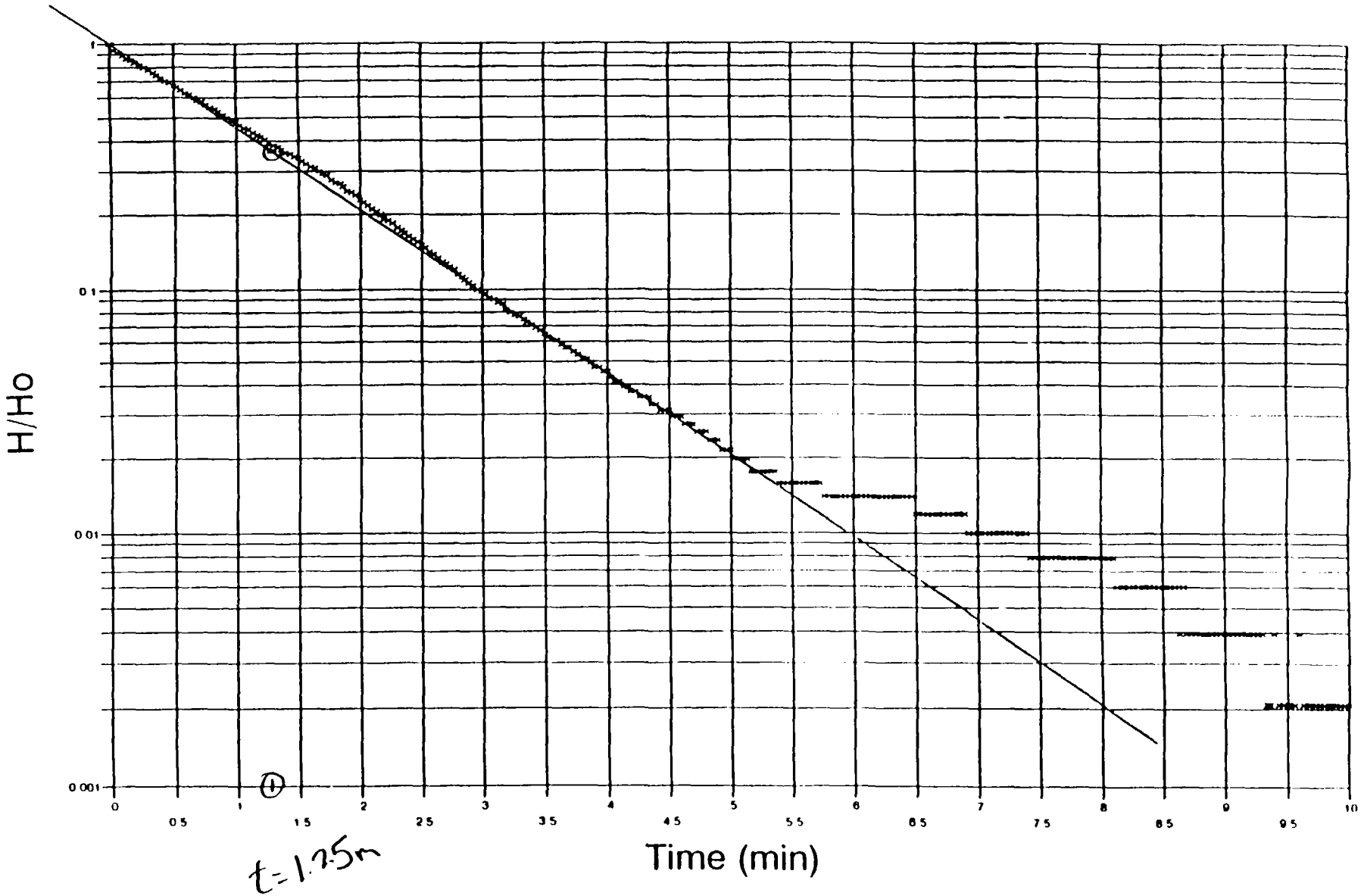
# Hvorslev Method

## DVF2



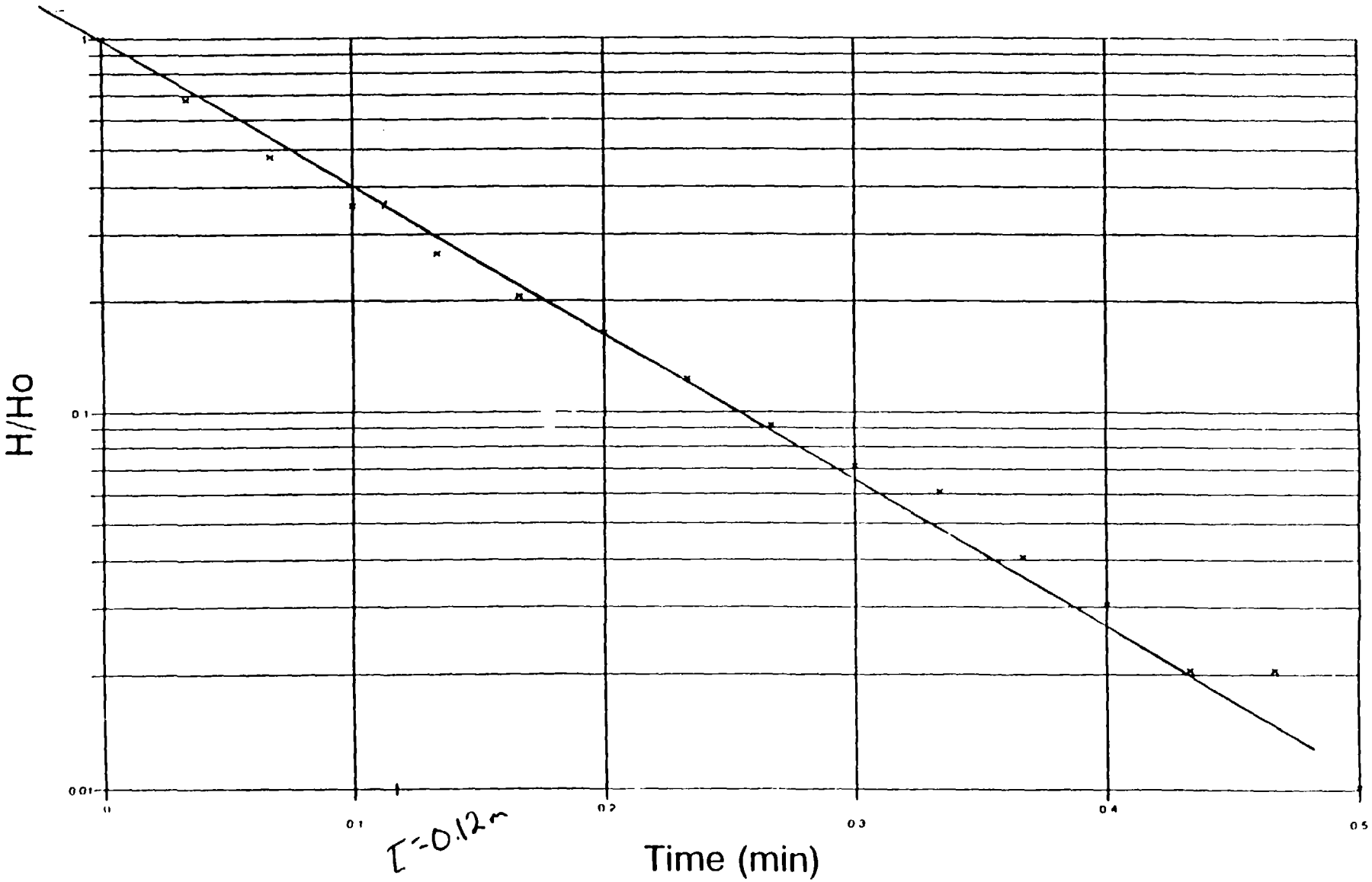
# Hvorslev Method

## DVF3



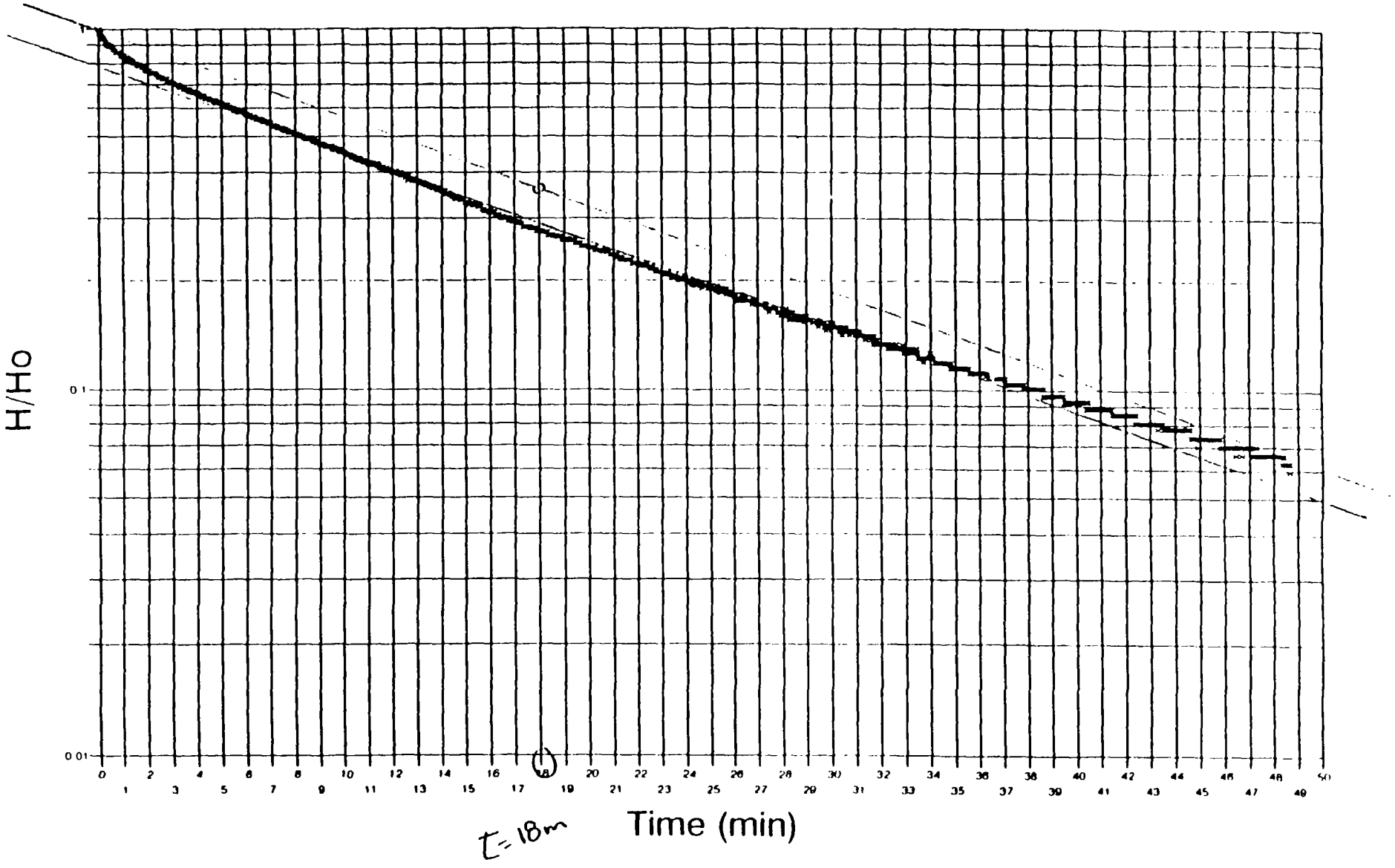
# Hvorslev Method

## EVF1



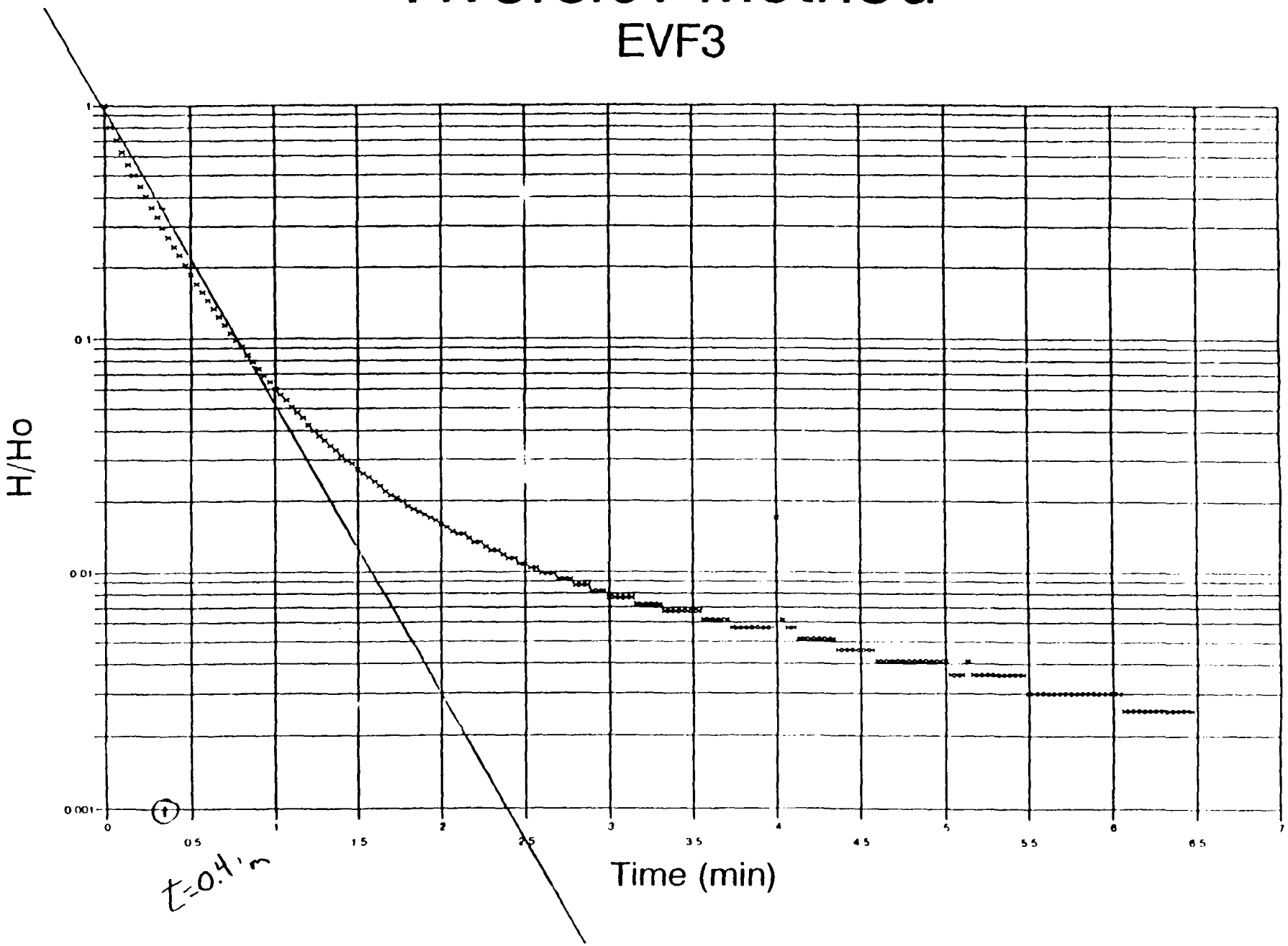
# Hvorslev Method

## EVF2



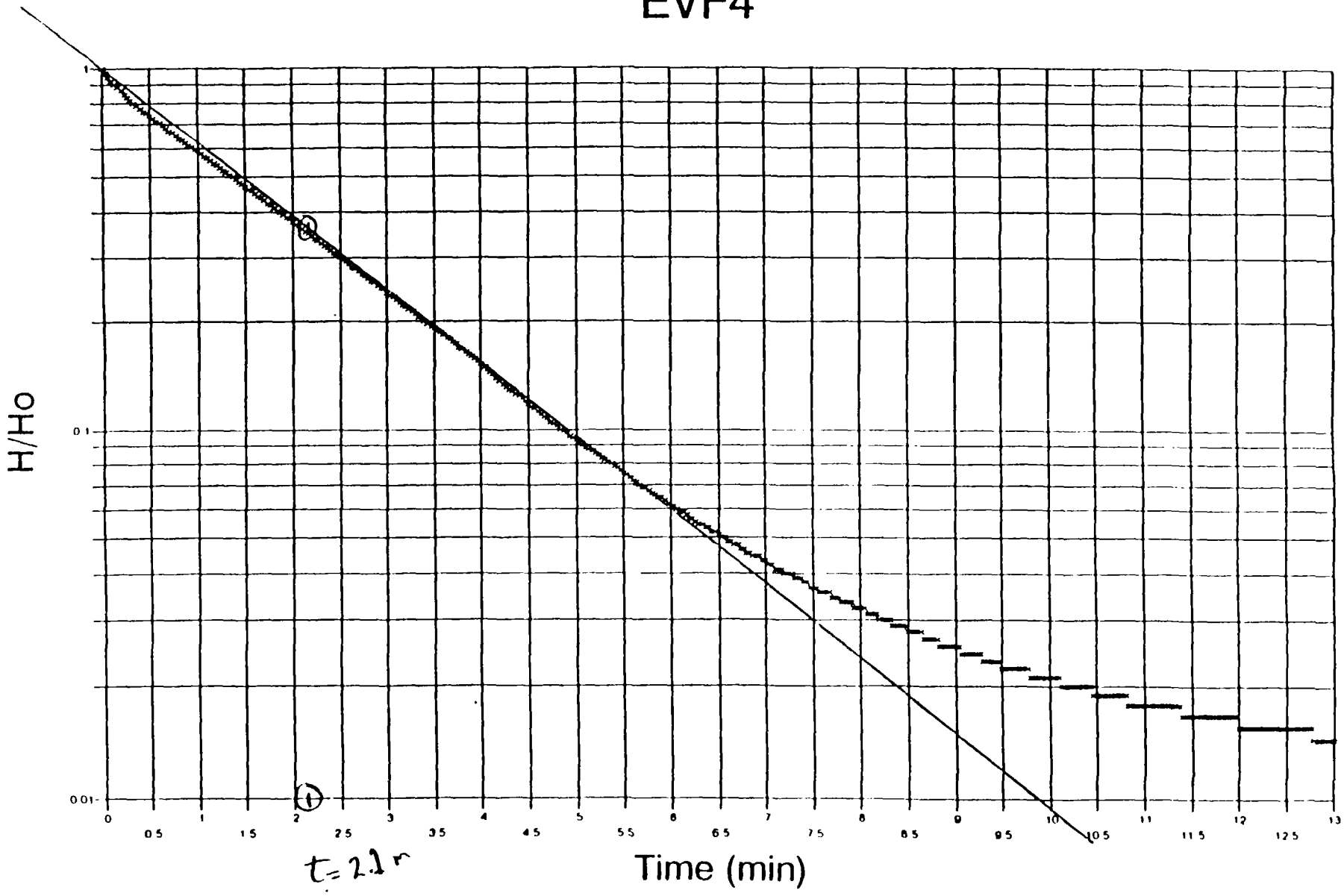
# Hvorslev Method

## EVF3



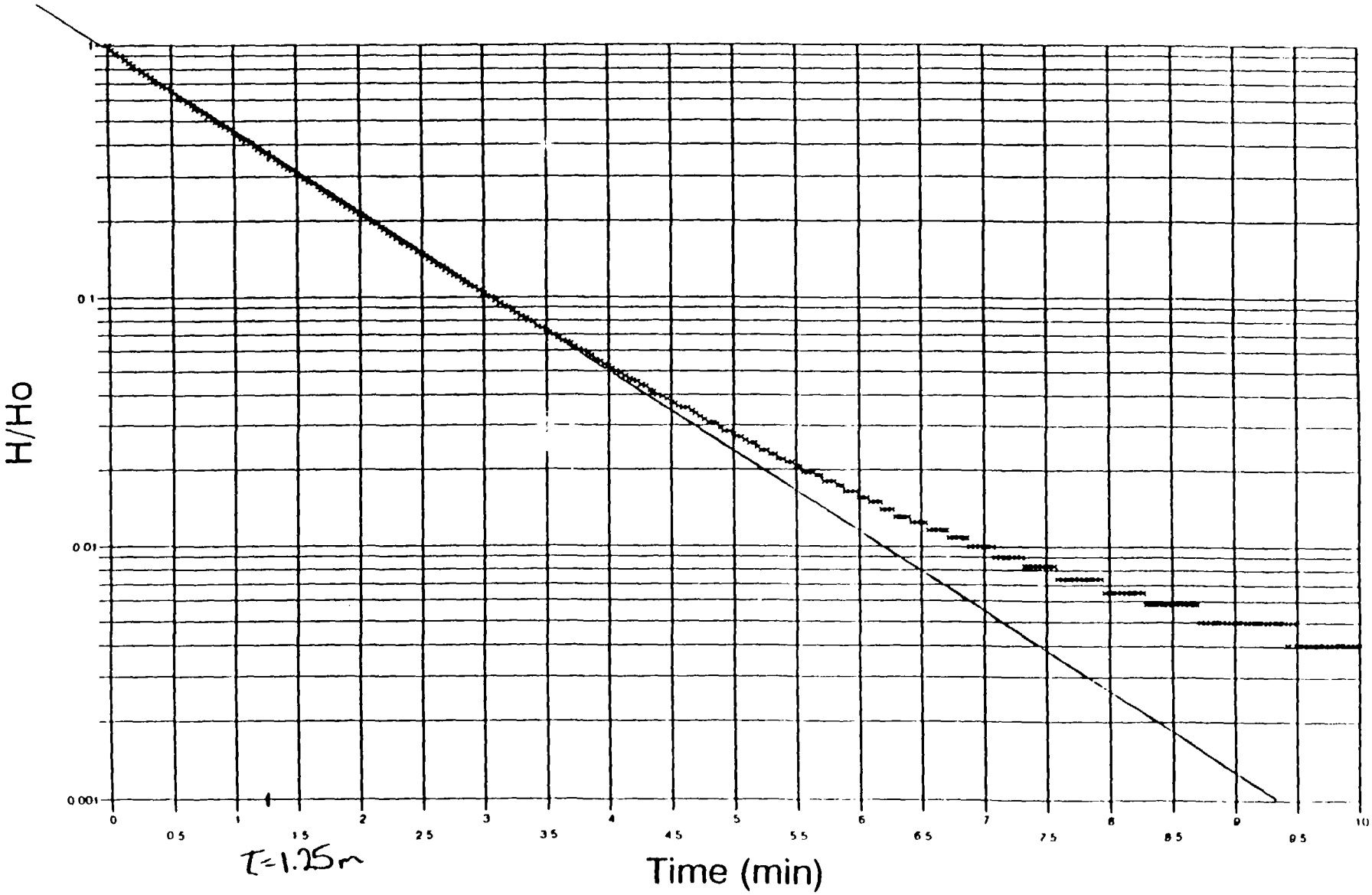
# Hvorslev Method

## EVF4



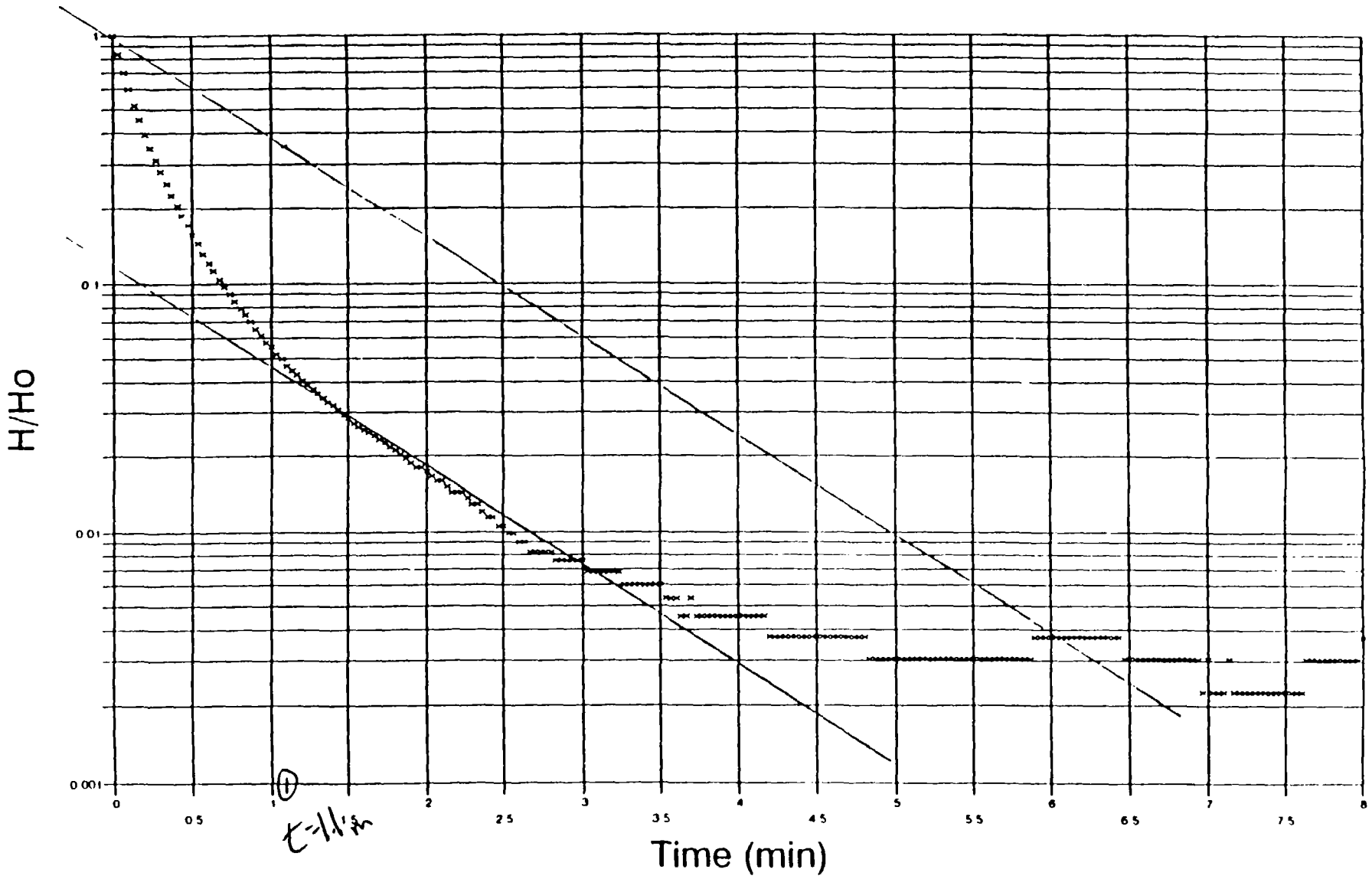
# Hvorslev Method

## ELB



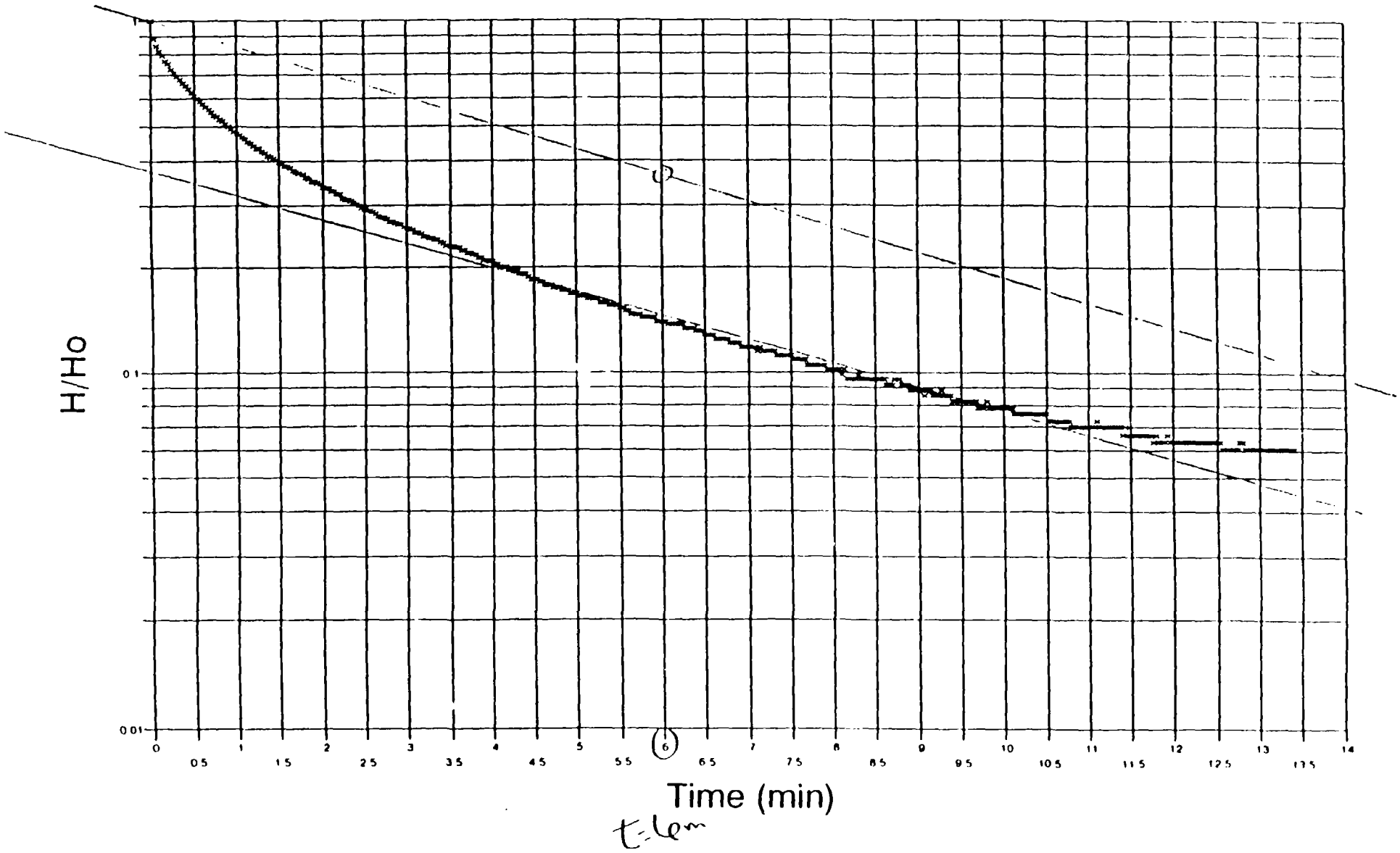
# Hvorslev Method

## FVF3



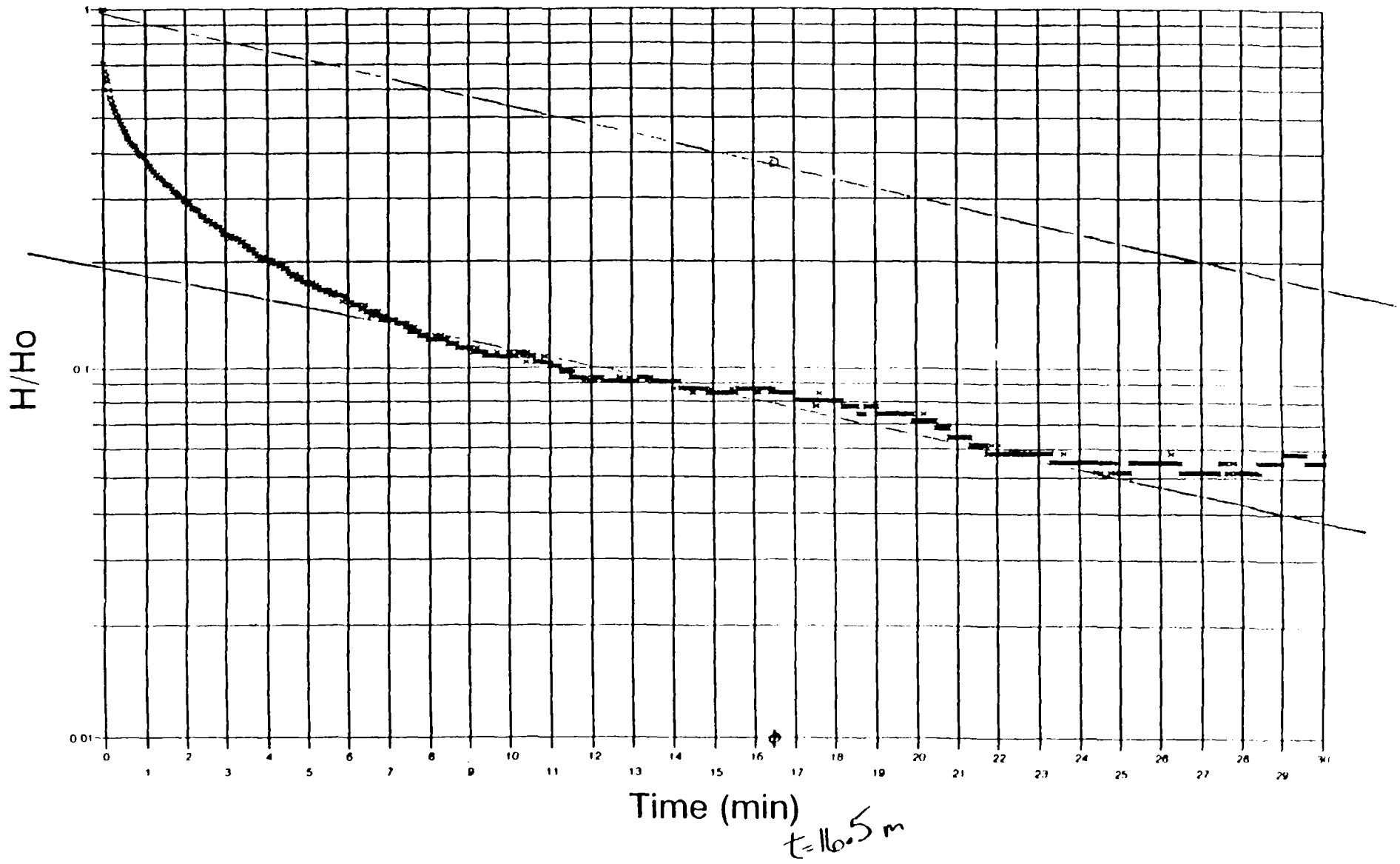
# Hvorslev Method

## FVF4



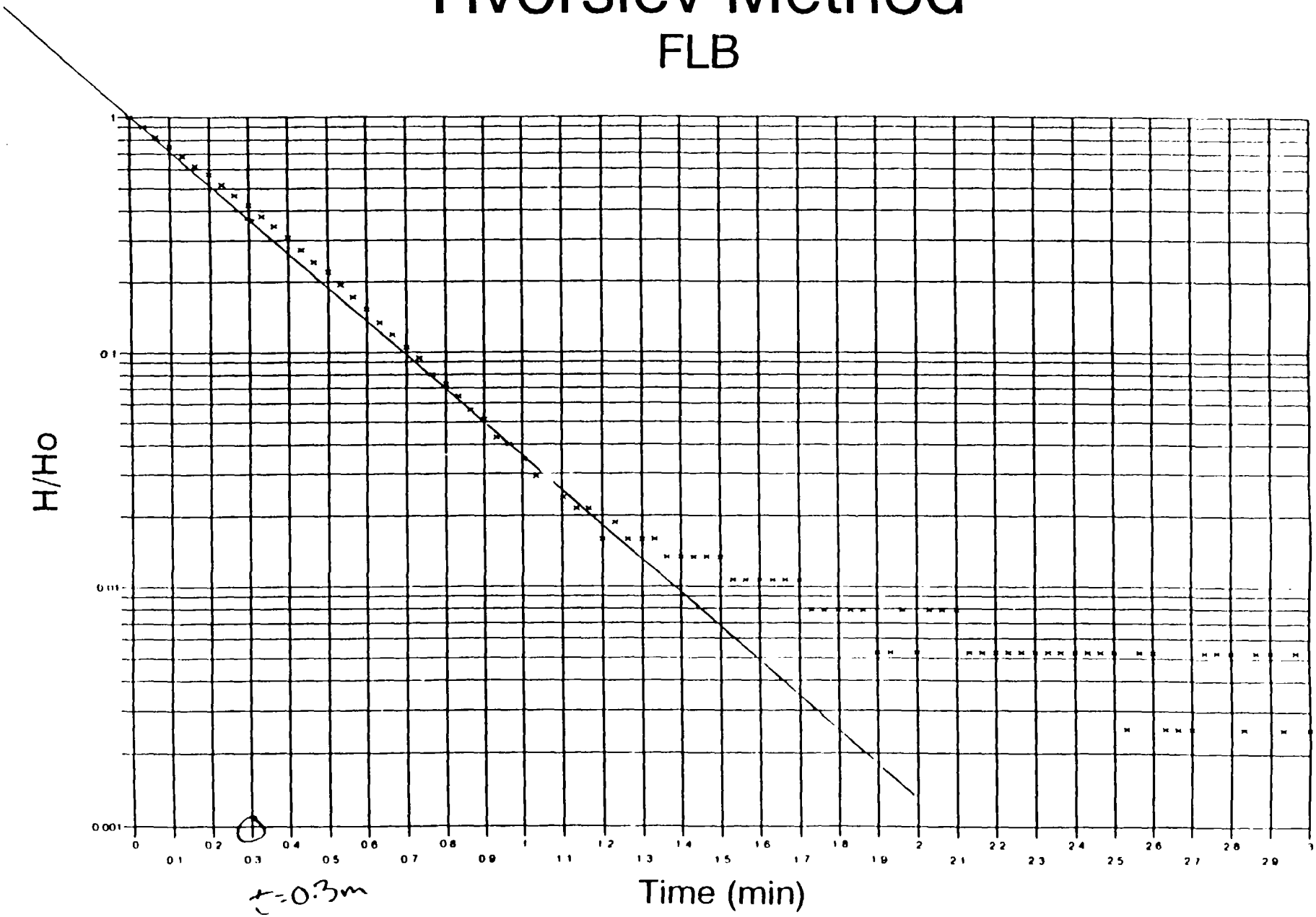
# Hvorslev Method

## FVF6



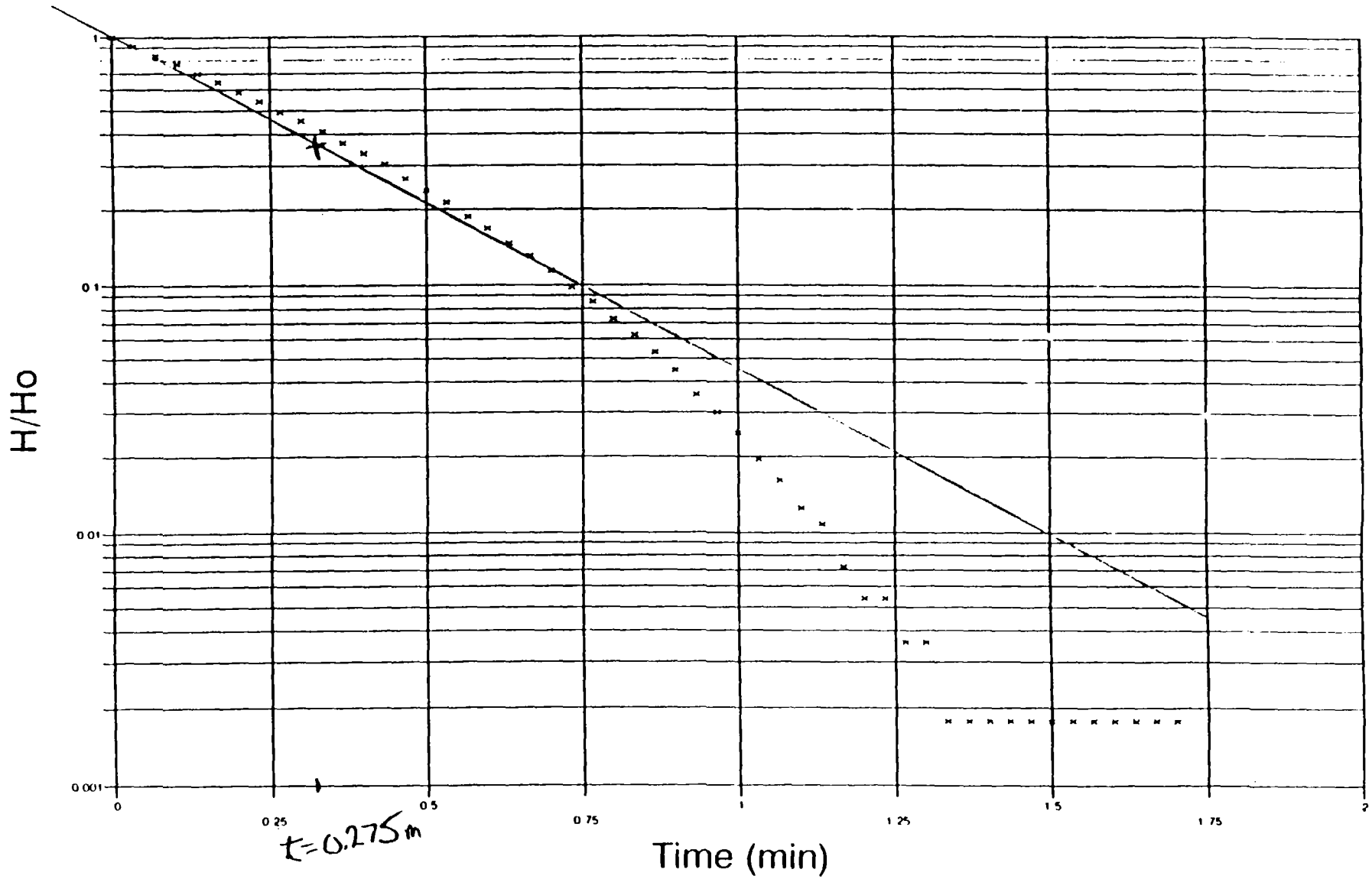
# Hvorslev Method

## FLB



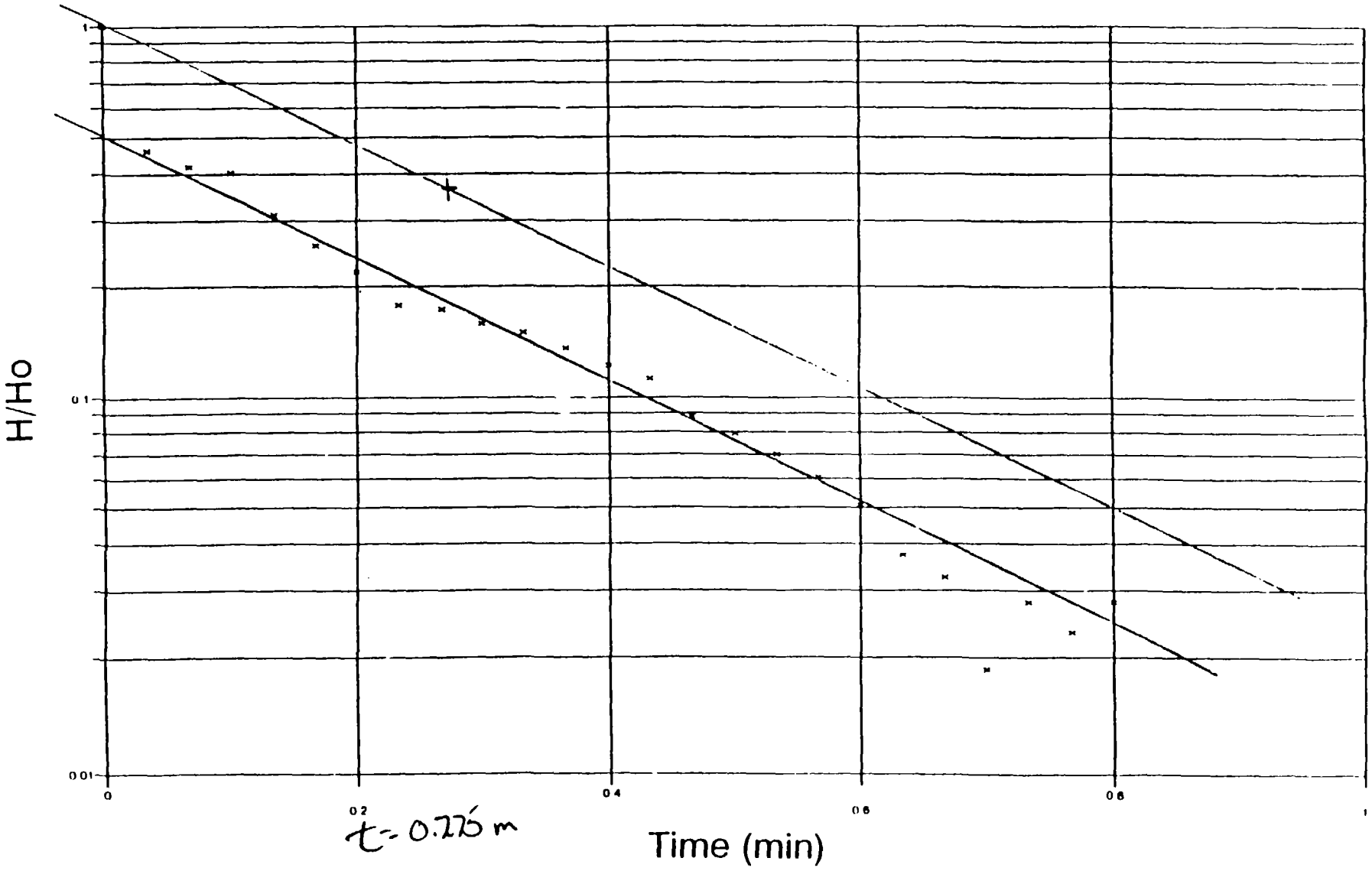
# Hvorslev Method

## GUB



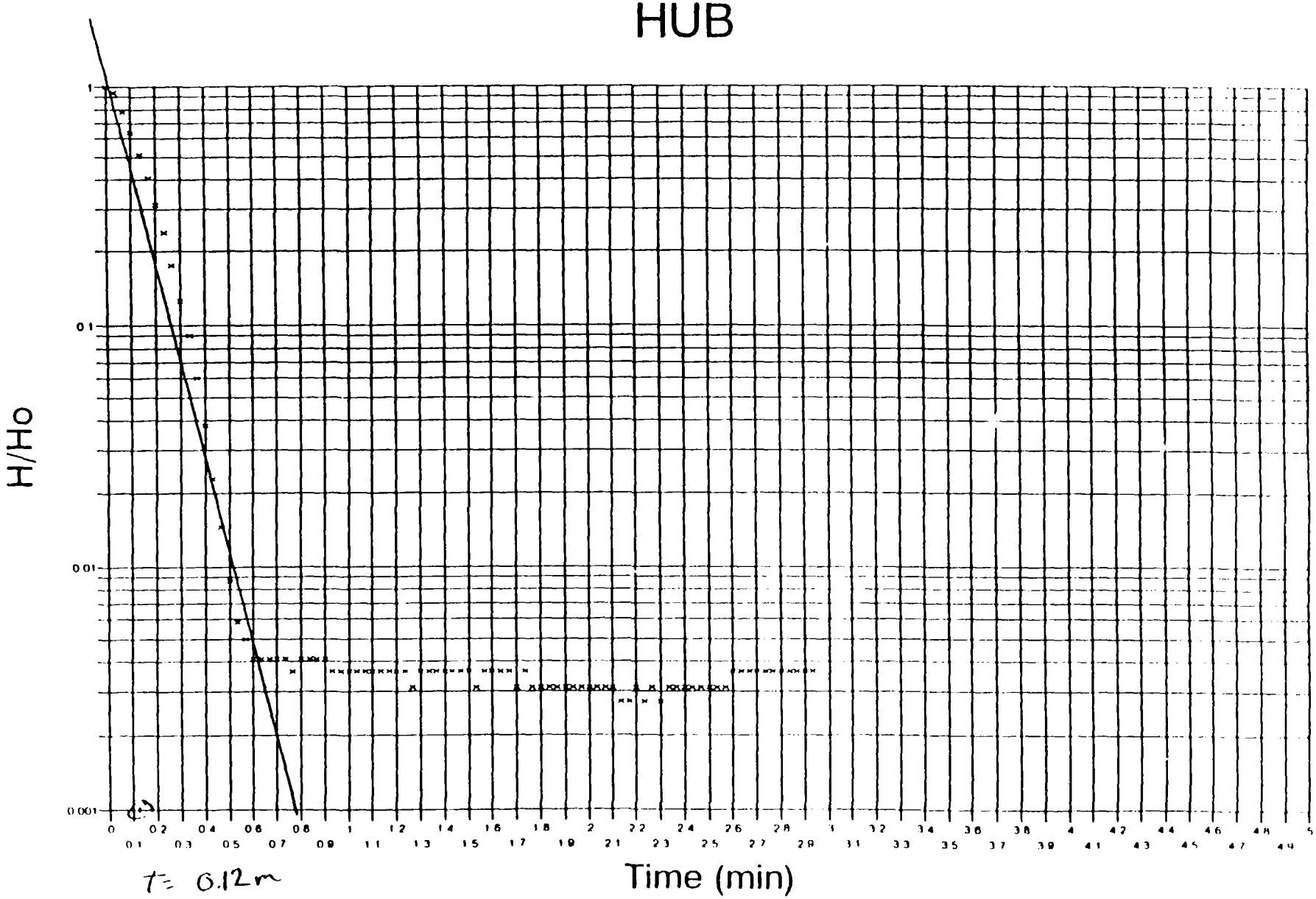
# Hvorslev Method

## HS



# Hvorslev Method

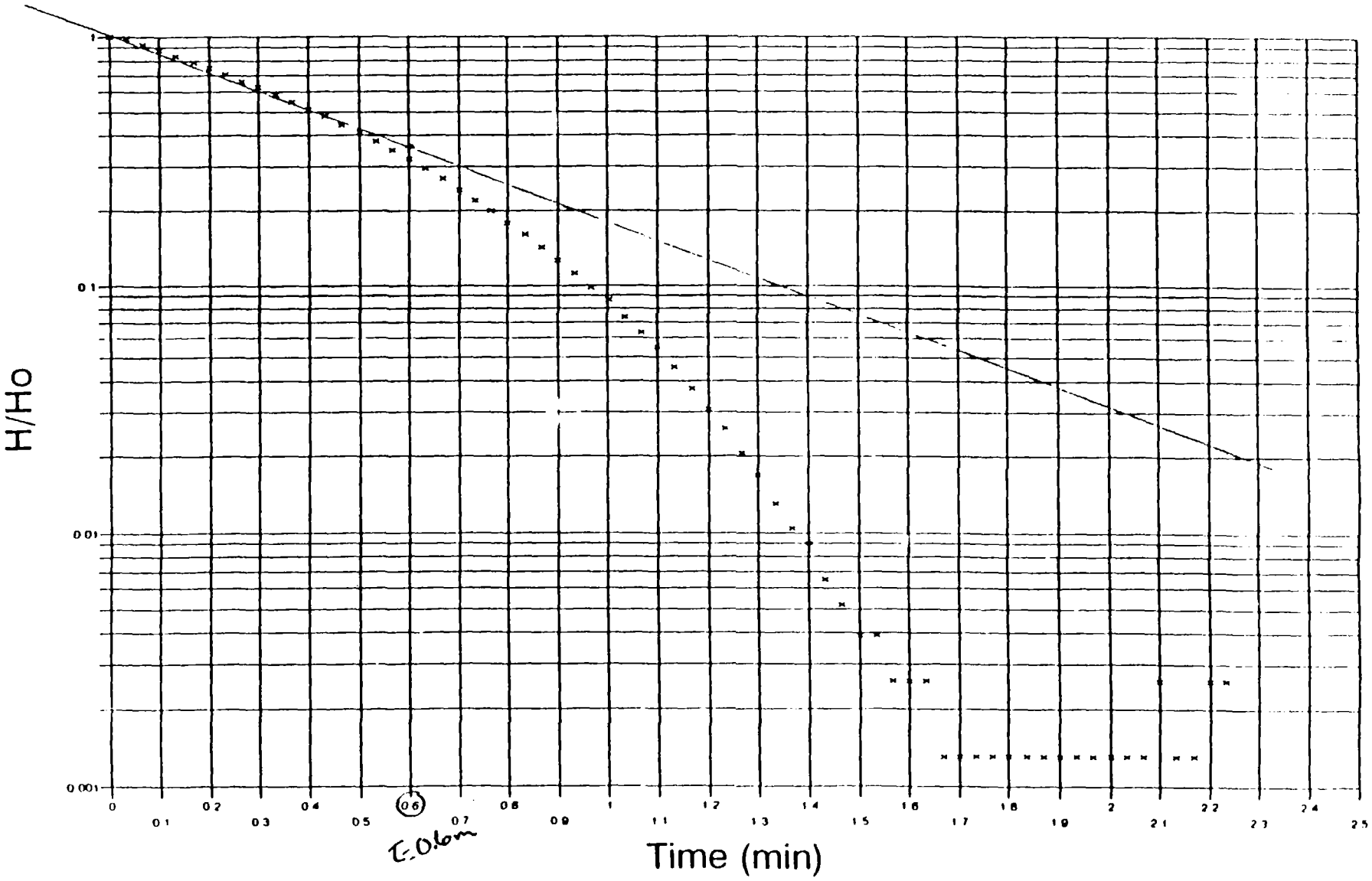
## HUB




t= 0.12m

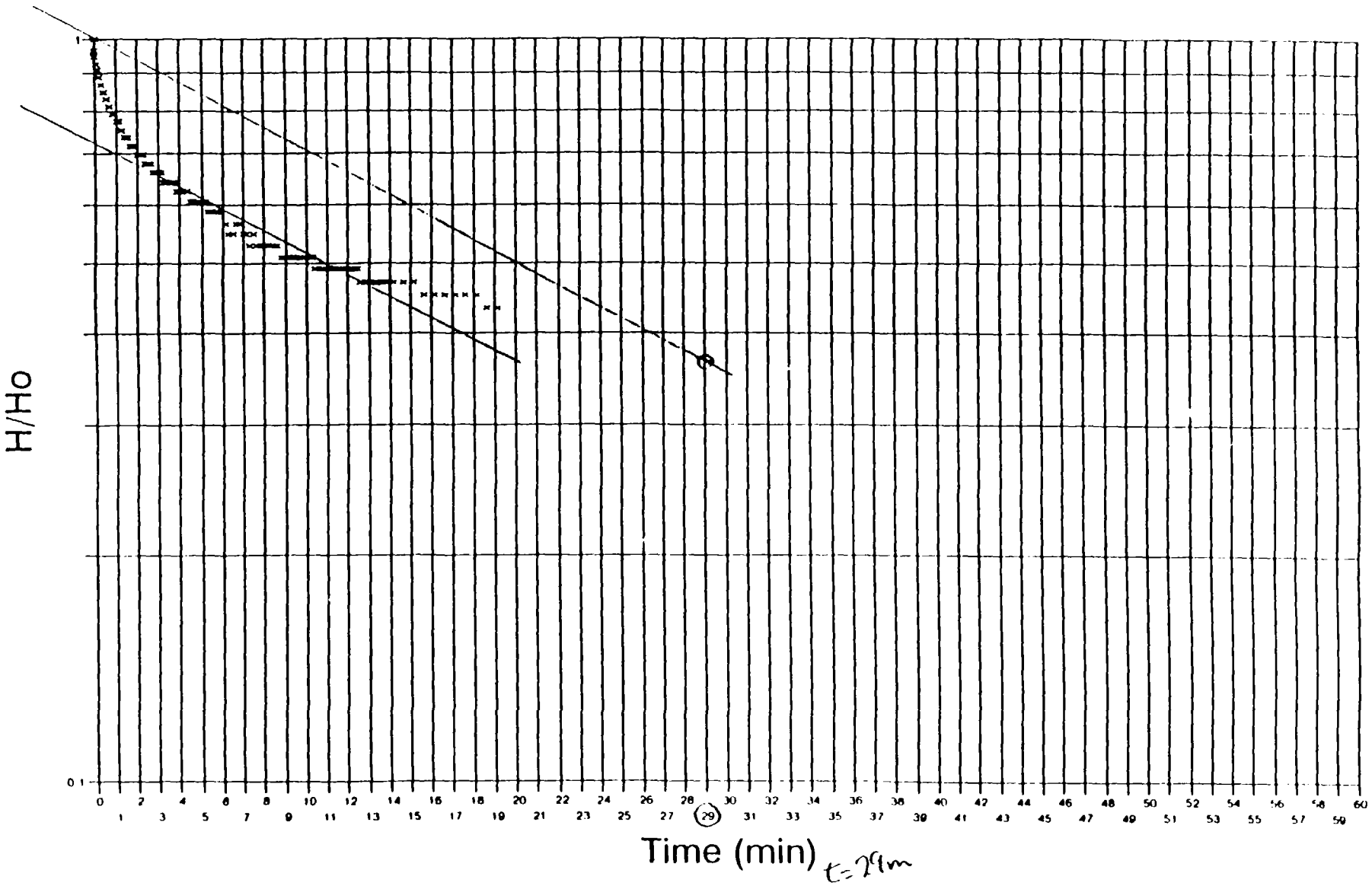
# Hvorslev Method

II



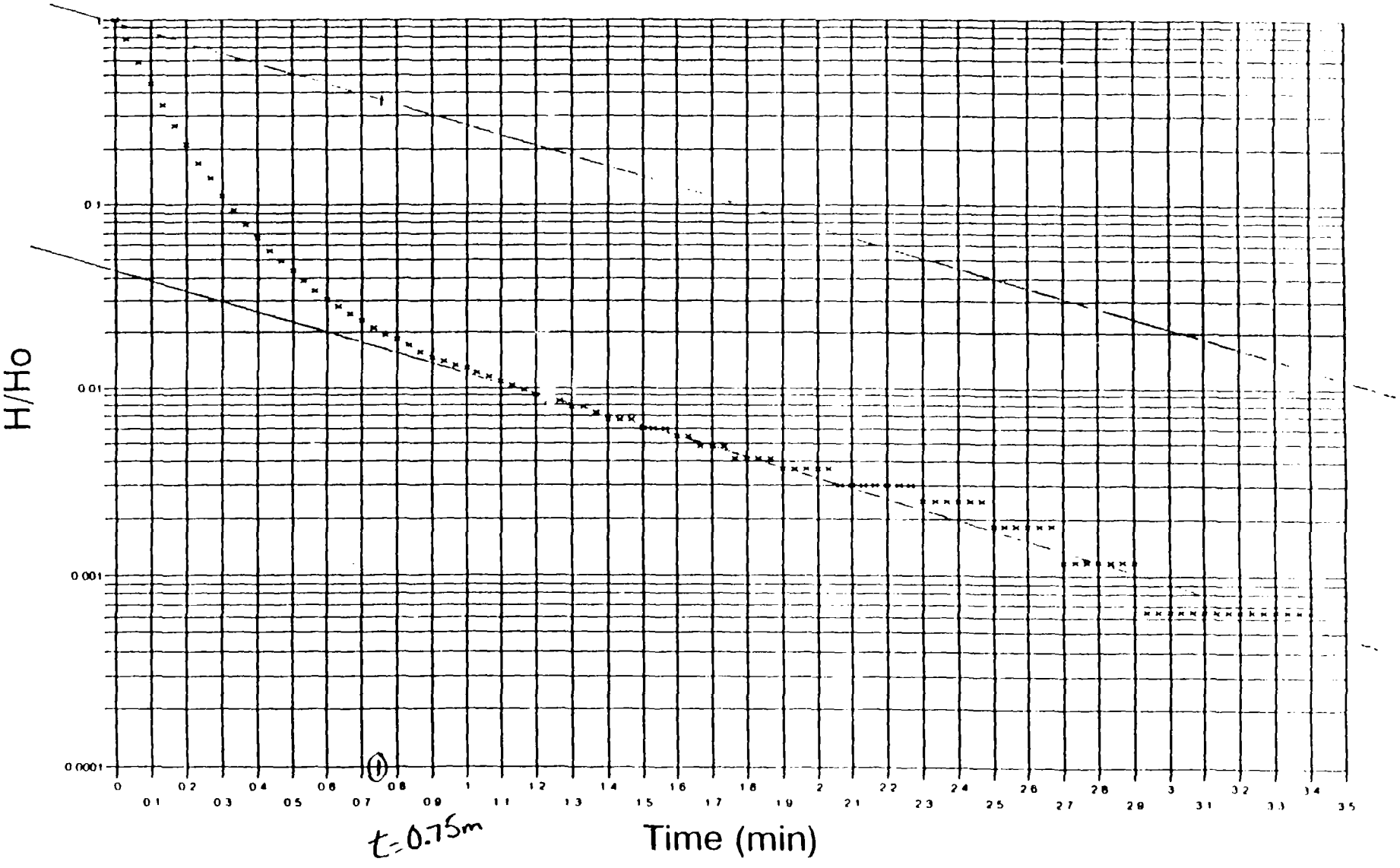
# Hvorslev Method

## IUB



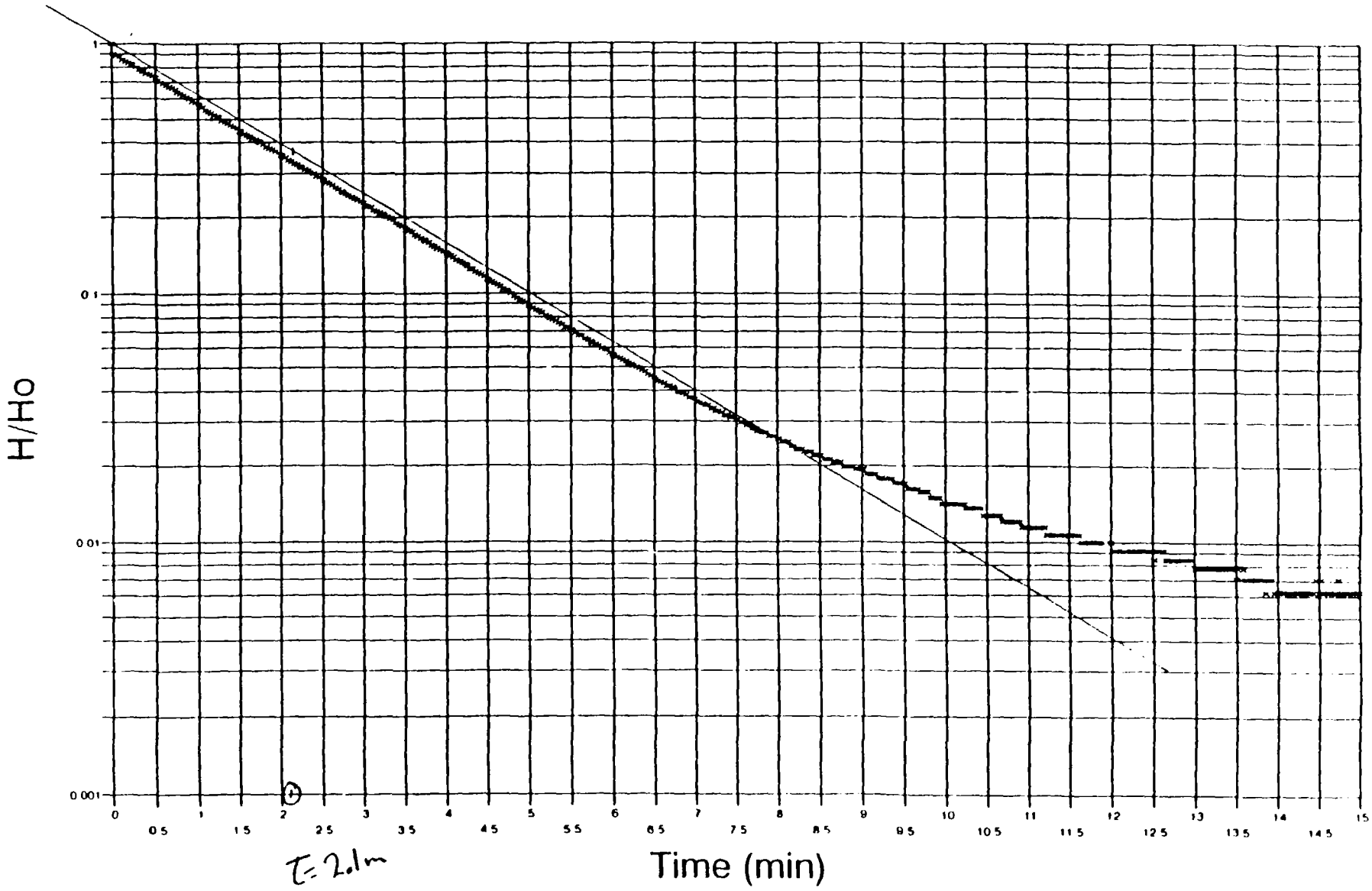
# Hvorslev Method

## JVF3



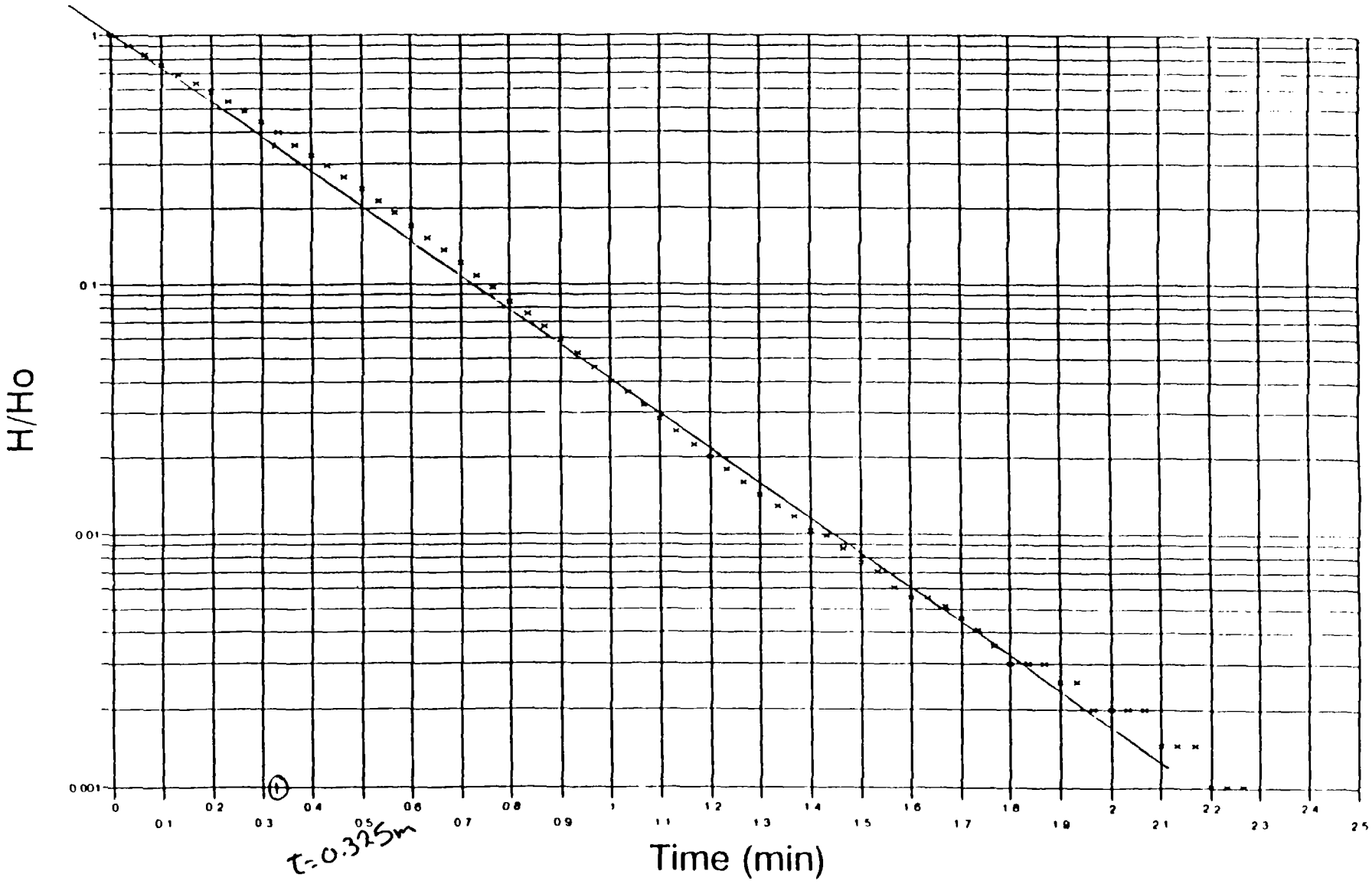
# Hvorslev Method

## JVF4



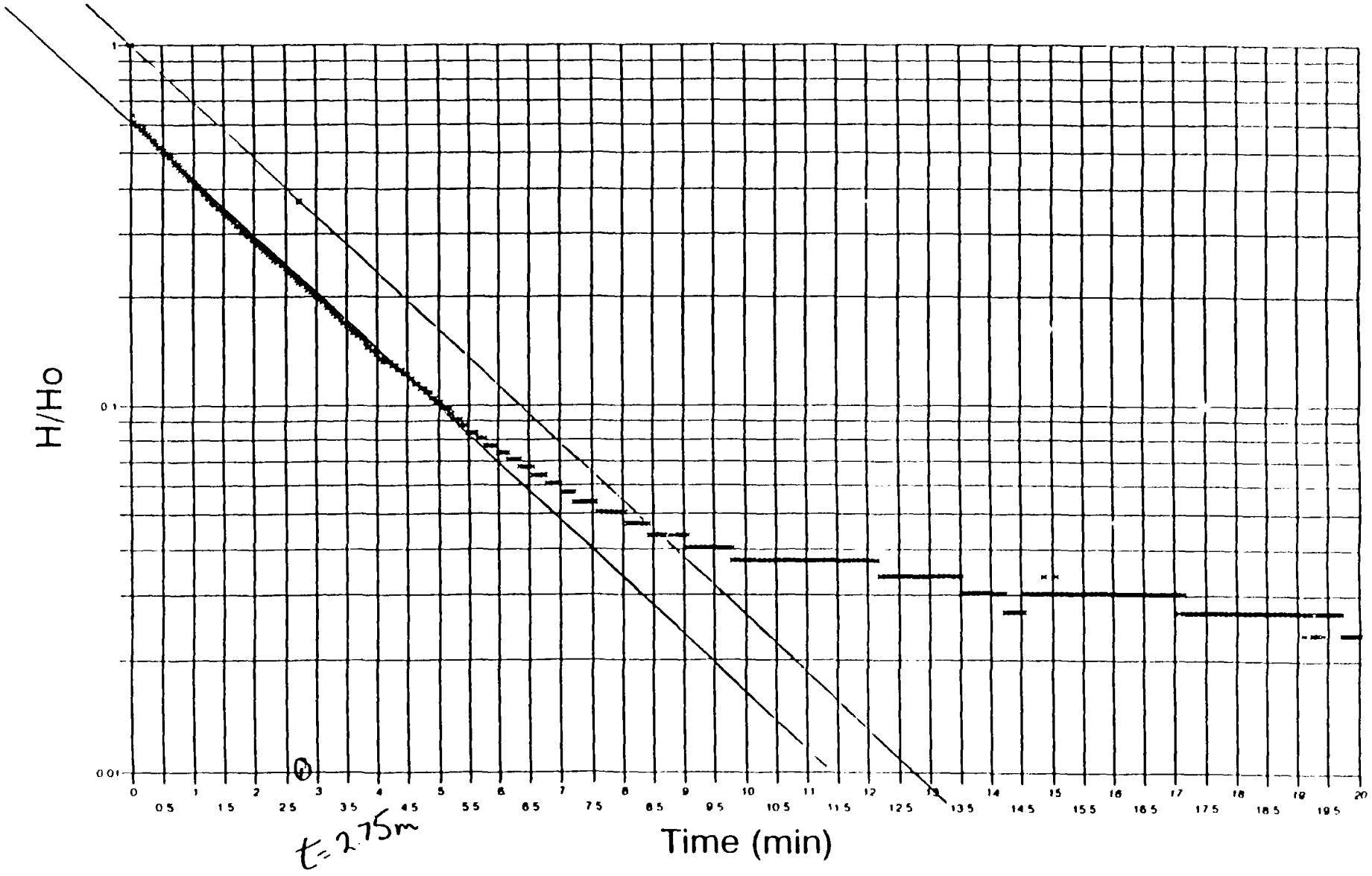
# Hvorslev Method

## JLB



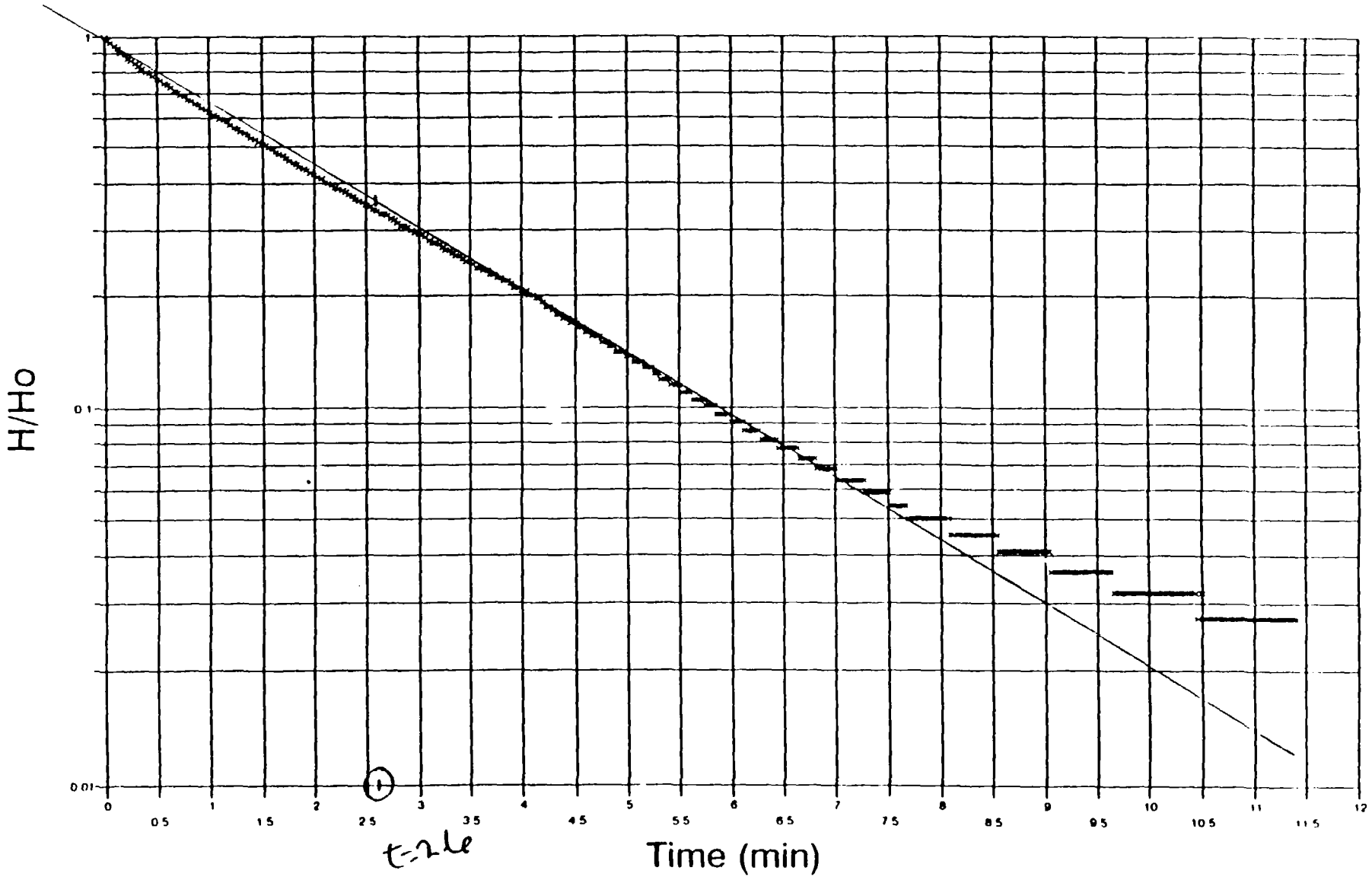
# Hvorslev Method

## KVF2



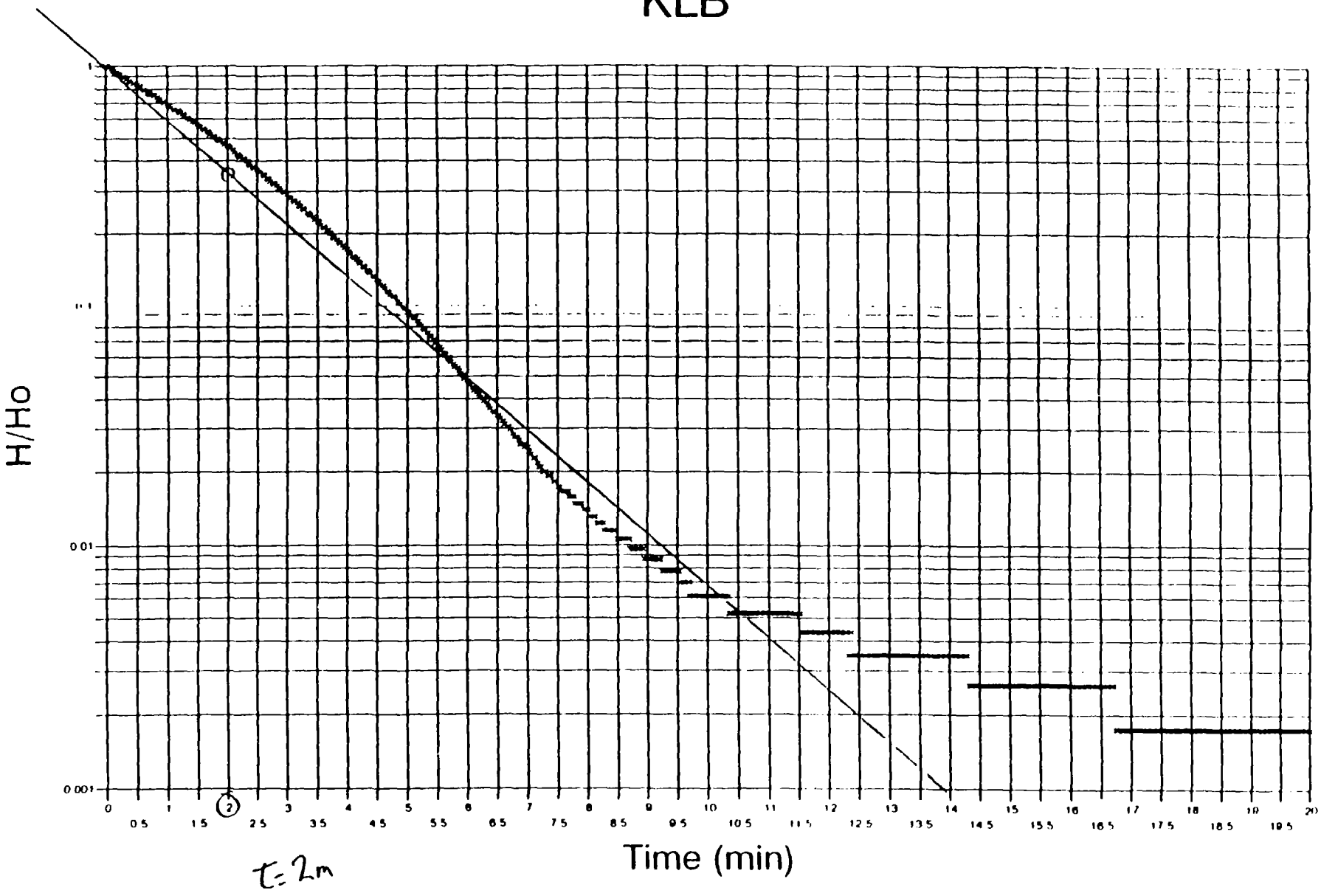
# Hvorslev Method

## KVF4



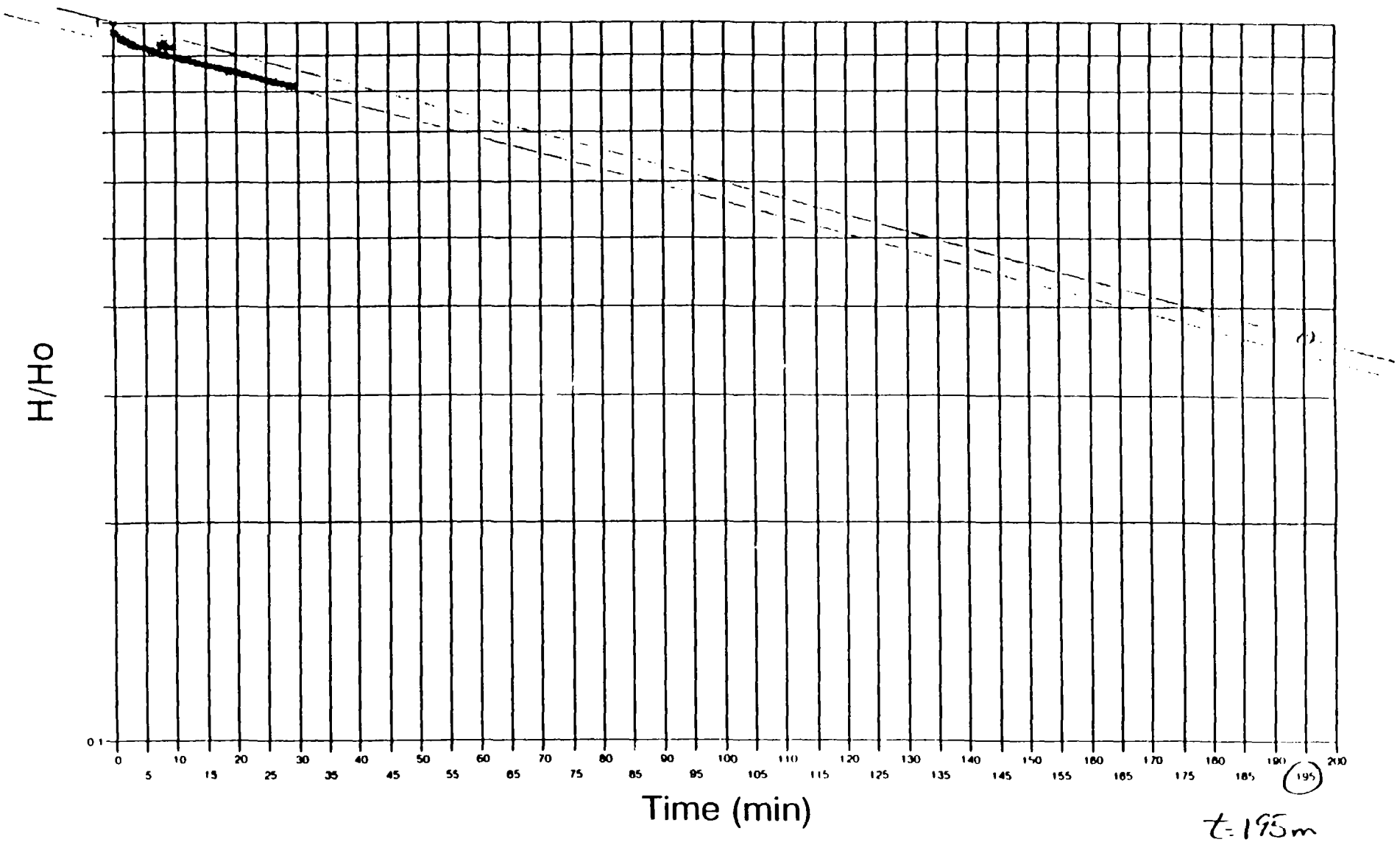
# Hvorslev Method

## KLB



# Hvorslev Method

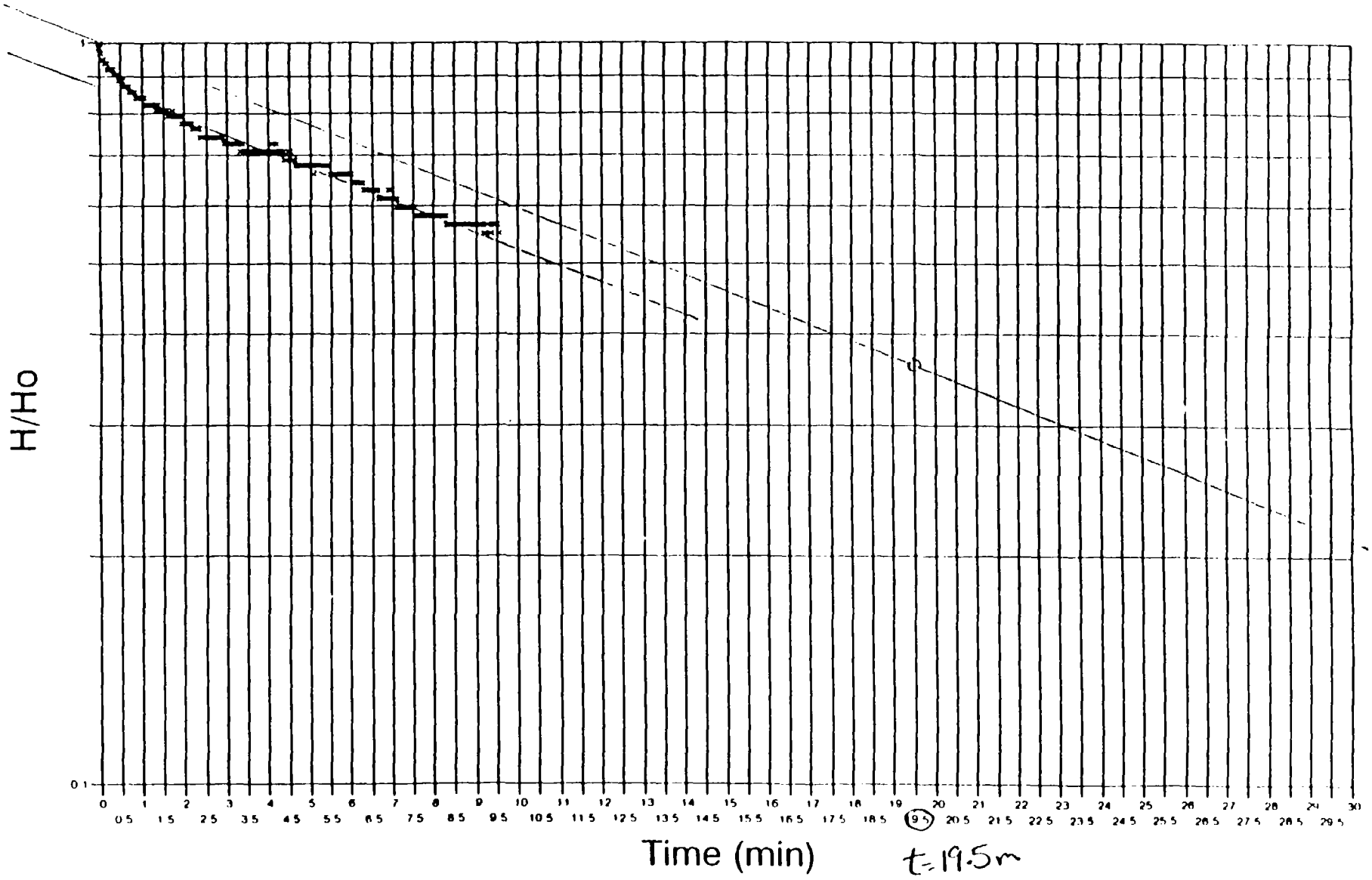
## LVF2




t=195m

# Hvorslev Method

## LLB



# APPENDIX M

Recent Water Level Data

(Plate M-1 Interpreted Shallow Water Table, March 1993)

(Plate M-2 Interpreted Potentiometric Surfaces MKS and Vanport Limestone)

TABLE M1

MONTHLY MONITORING WELL WATER LEVELS 1993
SHALLOW GROUNDWATER SYSTEM
NEASE SITE, SALEM, OHIO
Note All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| Sampling Date | | 3-93 | | 4-93 | | 5-93 | | 7-93 | |
|---|---|---|---|---|---|---|---|---|---|
| Well No | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| A-S | 1195 3 | 8.3 | 1187 | 8.24 | 1187 06 | 10 66 | 1184 64 | 11 1 | 1184 2 |
| B-S | 1198 23 | 7 | 1191.23 | 6 84 | 1191 39 | 10 69 | 1187 54 | 11 37 | 1186 86 |
| C-S | 1191.85 | 4.65 | 1187.2 | 5 31 | 1186 54 | 8.38 | 1183 49 | 8 38 | 1183 47 |
| DVF3 | 1139 5 | 0 | >1139.5 | 0 | >1139 5 | 0 | >1139 5 | 0 | >1139 5 |
| D-S | 1140 2 | 3 | 1137.2 | 3 03 | 1137 17 | 3.85 | 1136 35 | 3 72 | 1136 48 |
| EVF1 | 1149 | 5.43 | 1143.57 | 5 02 | 1143 98 | 8 17 | 1140 83 | 8 1 | 1140 9 |
| EVF2 | 1148 5 | 9 01 | 1139 49 | 9.1 | 1139 4 | 10 13 | 1138 37 | 10 57 | 1137.93 |
| EVF3 | 1149 66 | 5 01 | 1144 65 | 5 2 | 1144 46 | 5 9 | 1143 76 | 6 12 | 1143 54 |
| EVF4 | 1149 4 | 3 89 | 1145.51 | 4 1 | 1145 3 | 4 78 | 1144 62 | 5 03 | 1144 37 |
| FVF3 | 1163.24 | 12.57 | 1150 67 | 12 73 | 1150 51 | 13 45 | 1149 79 | 13.51 | 1149 73 |
| FVF4 | 1163.26 | 13 3 | 1149 96 | 13 48 | 1149 78 | 14.2 | 1149 06 | 14 27 | 1148 99 |
| FVF6 | 1163 28 | 10 2 | 1153 08 | 10 46 | 1152 82 | 11 11 | 1152 17 | 11 2 | 1152 08 |
| H-S | 1177.4 | 2 98 | 1174 42 | 3 15 | 1174 25 | 6 02 | 1171 38 | 6 | 1171 4 |
| HVF1 | 1171 6 | 16 34 | 1155 26 | 16 56 | 1155 04 | 17 11 | 1154 49 | 17 08 | 1154 52 |
| IS | 1210.01 | 16 6 | 1193.41 | 17 51 | 1192 5 | 18 96 | 1191 05 | 18 35 | 1191 66 |
| JVF2 | 1146.6 | 11.32 | 1135.28 | 11 21 | 1135 39 | 12 51 | 1134 09 | 12.71 | 1133 89 |
| JVF3 | 1146 | 10 58 | 1135.42 | 10 73 | 1135 27 | 11 2 | 1134 8 | 11 21 | 1134 79 |
| JVF4 | 1146 71 | 7.48 | 1139.23 | 7 51 | 1139 2 | 8.27 | 1138 44 | 8 34 | 1138 37 |
| K-S | 1137.7 | 3 | 1134.7 | 2 92 | 1134 78 | 3 52 | 1134 18 | 3.44 | 1134 26 |
| K-V | 1138 | 0 | >1138 | 0 | >1138 | 0 | >1138 | 0 | >1138 |
| LVF1 | 1170.83 | 10 53 | 1160 3 | 8 49 | 1162 34 | 10 09 | 1160 74 | 10 5 | 1160 33 |
| LVF2 | 1170.2 | 17 37 | 1152.83 | 17 59 | 1152 61 | 18 44 | 1151 76 | 18 51 | 1151 69 |
| S-1 | 1175 59 | 14 11 | 1161.48 | 14 31 | 1161.28 | 15 07 | 1160 52 | 15.13 | 1160 46 |
| S-2 | 1170.06 | 7 64 | 1162 42 | 7.6 | 1162 46 | 8 65 | 1161 41 | 8 64 | 1161 42 |
| S-3 | 1169 31 | 4.45 | 1164.86 | 4 45 | 1164 86 | 5 45 | 1163 86 | 5.52 | 1163 79 |
| S-4 | 1181.18 | 3.78 | 1177.4 | 3 79 | 1177 39 | 5 33 | 1175 85 | 4.8 | 1176.38 |
| S-5 | 1208.51 | 12.6 | 1195.91 | 13 83 | 1194.68 | 15.42 | 1193 09 | 15 65 | 1192 86 |
| S-6 | 1191.09 | 5 03 | 1186.06 | 5.38 | 1185.71 | 6.7 | 1184 39 | 6.54 | 1184.55 |
| S-7 | 1183.34 | 4.35 | 1178.99 | 4.09 | 1179.25 | 7 33 | 1176 01 | 6 6 | 1176 74 |
| S-8 | 1192 12 | 4.92 | 1187.2 | 5.31 | 1186 81 | 6 46 | 1185 66 | 6.4 | 1185 72 |
| S-9 | 1200 76 | 12.15 | 1188.61 | 13.3 | 1187.46 | 15.47 | 1185 29 | 15 67 | 1185.09 |
| S-10 | 1203.08 | 9.4 | 1193.68 | 10.35 | 1192 73 | 11 72 | 1191 36 | 11.2 | 1191 88 |
| S-11 | 1197.96 | 5.9 | 1192.06 | 5.86 | 1192.1 | 8.73 | 1189 23 | 8.82 | 1189 14 |
| S-12 | 1182 05 | 3.48 | 1178 57 | 3 42 | 1178.63 | 5 41 | 1176 64 | 4 39 | 1177 66 |
| S-13 | 1168 94 | 4.47 | 1164.47 | 4.27 | 1164 67 | 5 28 | 1163 66 | 5.11 | 1163 83 |
| S-14 | 1158 7 | 2.53 | 1156 17 | 2 7 | 1156 | 3 35 | 1155 35 | 3 31 | 1155 39 |
| S-15 | 1156 97 | 1 | 1155.97 | 1.82 | 1155.15 | 2 43 | 1154 54 | 1.82 | 1155 15 |
| S-16 | 1159.28 | 12.6 | 1146 68 | 12 81 | 1146 47 | 13.88 | 1145 4 | 13 37 | 1145 91 |
| S-17 | 1157.14 | 1 | 1156.14 | 1.15 | 1155 99 | 1 82 | 1155 32 | 1.77 | 1155 37 |
| S-18 | 1187.05 | 6.29 | 1180.76 | 6.27 | 1180 78 | 6 47 | 1180 58 | 6 05 | 1181 |
| S-19 | 1154 18 | 0 | >1154.18 | 0 | >1154 18 | 0 | >1154 18 | 0 | >1154 18 |

Note 1) No sampling event during 6/93
2) > denotes artesian conditions

TABLE M1

MONTHLY MONITORING WELL WATER LEVELS 1993
SHALLOW GROUNDWATER SYSTEM
NEASE SITE, SALEM, OHIO
Note All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| | | 8-93 | | 9-93 | | 10-93 | | 11-93 | | 12-93 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well No | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| A-S | 1195 3 | 12 26 | 1183 04 | 13 01 | 1182.29 | 13 73 | 1181 57 | 13 72 | 1181 58 | 13 26 | 1182 04 |
| B-S | 1198.23 | 12.58 | 1185.65 | 13.15 | 1185 08 | 13.73 | 1184 5 | 13 69 | 1184 54 | 13 45 | 1184 78 |
| C-S | 1191.85 | 9 67 | 1182.18 | 10 33 | 1181.52 | 10 98 | 1180 87 | 9 42 | 1182 43 | 8 31 | 1183 54 |
| DVF3 | 1139 5 | 0 | >1139.5 | 0 | >1139.5 | 0 | >1139 5 | 0 | >1139 5 | 0 | >1139 5 |
| D-S | 1140 2 | 4 04 | 1136.16 | 3 81 | 1136.39 | 3 36 | 1136 84 | 2.83 | 1137 37 | 2 96 | 1137 24 |
| EVF1 | 1149 | 9 56 | 1139 44 | 10.59 | 1138.41 | 11 32 | 1137 68 | 4 95 | 1144 05 | 5 92 | 1143 08 |
| EVF2 | 1148.5 | 11.3 | 1137.2 | 11.67 | 1136 83 | 11 77 | 1136 73 | 10 79 | 1137 71 | 10 81 | 1137 69 |
| EVF3 | 1149 66 | 6.73 | 1142 93 | 7.08 | 1142.58 | 7 23 | 1142 43 | 6 36 | 1143 3 | 6 39 | 1143 27 |
| EVF4 | 1149 4 | 5 64 | 1143 76 | 6 | 1143 4 | 6 16 | 1143 24 | 5.28 | 1144 12 | 5 29 | 1144 11 |
| FVF3 | 1163 24 | 14 1 | 1149 14 | 14 29 | 1148 95 | 14 38 | 1148 86 | 13 41 | 1149 83 | 13 47 | 1149 77 |
| FVF4 | 1163 26 | 14.85 | 1148 41 | 15 05 | 1148 21 | 15 15 | 1148 11 | 14 19 | 1149 07 | 14 24 | 1149 02 |
| FVF6 | 1163 28 | 11 76 | 1151 52 | 12.04 | 1151.24 | 12 14 | 1151 14 | 11 22 | 1152 06 | 11 24 | 1152 04 |
| H S | 1177 4 | 6 8 | 1170 6 | 7.07 | 1170.33 | 7 44 | 1169 96 | 2.82 | 1174 58 | 3 24 | 1174 16 |
| HVF2 | 1171 6 | 17.67 | 1153 93 | 17.92 | 1153.68 | 18 04 | 1153 56 | 17 12 | 1154 48 | 17 17 | 1154 43 |
| IS | 1210 01 | 20.29 | 1189 72 | 20 79 | 1189.22 | 21 89 | 1188 12 | 20 24 | 1189 77 | 18 75 | 1191 26 |
| JVF2 | 1146 6 | 13 11 | 1133.49 | 13 03 | 1133.57 | 12 8 | 1133 8 | 11.56 | 1135 04 | 11 66 | 1134 94 |
| JVF3 | 1146 | 11.51 | 1134.49 | 11 46 | 1134.54 | 11.2 | 1134 8 | 10 4 | 1135 6 | 10 47 | 1135 53 |
| JVF4 | 1146 71 | 8.92 | 1137.79 | 9.05 | 1137.66 | 8 98 | 1137 73 | 8 09 | 1138 62 | 8.09 | 1138 62 |
| K-S | 1137.7 | 3 81 | 1133 89 | 3.73 | 1133.97 | 3 29 | 1134.41 | 3.03 | 1134 67 | 3 05 | 1134 65 |
| K-V | 1138 | 0.58 | 1137.42 | 0.87 | 1137.13 | 0 93 | 1137 07 | 0 | >1138 | 0 | >1138 |
| LVF1 | 1170 83 | 12 4 | 1158.43 | 14 04 | 1156.79 | 16 75 | 1154.08 | 11 52 | 1159 31 | 11 22 | 1159 61 |
| LVF2 | 1170.2 | 19.02 | 1151.18 | 19 27 | 1150 93 | 19 31 | 1150.89 | 18.34 | 1151 86 | 18.53 | 1151 67 |
| S-1 | 1175 59 | 15 72 | 1159.87 | 15.92 | 1159 67 | 16 02 | 1159 57 | 14 93 | 1160 66 | 15 05 | 1160 54 |
| S-2 | 1170 06 | 9.37 | 1160 69 | 9.52 | 1160.54 | 9 16 | 1160 9 | 8.01 | 1162.05 | 8 22 | 1161 84 |
| S-3 | 1169.31 | 6.15 | 1163.16 | 6.34 | 1162.97 | 6 31 | 1163 | 4.95 | 1164 36 | 5 11 | 1164 2 |
| S-4 | 1181.18 | 5 59 | 1175.59 | 5.17 | 1176.01 | 4 83 | 1176.35 | 4 28 | 1176.9 | 4 28 | 1176 9 |
| S-5 | 1208 51 | 15 62 | 1192.88 | 15.62 | 1192.89 | [illegible] | 1192.86 | 15 64 | 1192.87 | 15.3 | 1193 21 |
| S-6 | 1191.09 | 7.23 | 1183 86 | 7.37 | 1183.72 | 7 9 | 1183 19 | 6 41 | 1184 68 | 6.33 | 1184 76 |
| S-7 | 1183.34 | 7.65 | 1175.69 | 7.11 | 1176.23 | 8.77 | 1174.57 | 4.24 | 1179.1 | 4 39 | 1178 95 |
| S-8 | 1192 12 | 7.05 | 1185.07 | 7.17 | 1184.95 | 7 86 | 1184.26 | 6.35 | 1185 77 | 6 18 | 1185 94 |
| S-9 | 1200.76 | 16.95 | 1183.81 | 17.59 | 1183.17 | 18.28 | 1182.48 | 17.28 | 1183.48 | 16 61 | 1184 15 |
| S-10 | 1203 08 | 13 21 | 1189.87 | 13.71 | 1189 37 | 14 94 | 1188 14 | 13 44 | 1189 64 | 11.5 | 1191 58 |
| S-11 | 1197.96 | 10 66 | 1187.3 | 11.12 | 1186.84 | 12 33 | 1185.63 | 9 18 | 1188 78 | 7 31 | 1190 65 |
| S-12 | 1182 05 | 5.7 | 1176.35 | 5.05 | 1177 | 4 72 | 1177.33 | 3.81 | 1178.24 | 3.62 | 1178 43 |
| S-13 | 1168 94 | 5.63 | 1163.31 | 5.9 | 1163.04 | 5 71 | 1163 23 | 5 03 | 1163 91 | 5 39 | 1163 55 |
| S-14 | 1158 7 | 3 9 | 1154.8 | 4.06 | 1154.64 | 4.08 | 1154.62 | 3.15 | 1155 55 | 3 32 | 1155 38 |
| S-15 | 1156 97 | 2.7 | 1154.27 | 2.67 | 1154 3 | 2.2 | 1154.77 | 2 15 | 1154 82 | 1 77 | 1155 2 |
| S-16 | 1159 28 | 13 73 | 1145.55 | 13.85 | 1145 43 | 13 74 | 1145.54 | 13 02 | 1146 26 | 13 17 | 1146 11 |
| S-17 | 1157 14 | 2.35 | 1154.79 | 2.52 | 1154.62 | 2 44 | 1154 7 | 1 63 | 1155 51 | 1 79 | 1155 35 |
| S-18 | 1187 05 | 7 79 | 1179.26 | 10.33 | 1176.72 | 12 | 1175.05 | 7 16 | 1179 89 | 7 67 | 1179.38 |
| S-19 | 1154 18 | 0 | >1154 18 | 0 | >1154.18 | 0 | >1154 18 | 0 | >1154 18 | 0 | >1154 18 |

TABLE M2

MONTHLY MONITORING WELL WATER LEVELS 1994
SHALLOW GROUNDWATER SYSTEM
NEASE SITE, SALEM, OHIO
Note: All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| Sampling Date | | 1-94 | | 2-94 | | 3-94 | | 4-94 | |
|---|---|---|---|---|---|---|---|---|---|
| Well No. | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| A-S | 1195.3 | 13 | 1182 3 | 11.81 | 1183 49 | 9 89 | 1185 41 | 8 02 | 1187 28 |
| B-S | 1198 23 | 13 3 | 1184 93 | 12.27 | 1185 96 | 8.47 | 1189 76 | 7 06 | 1191 17 |
| C-S | 1191.85 | 7.63 | 1184.22 | 6.2 | 1185 65 | 4.7 | 1187.15 | 4 92 | 1186 93 |
| DVF3 | 1139 5 | 0 | >1139 5 | 0 | >1139 5 | 0 | >1139 5 | 0 | >1139.5 |
| D-S | 1140 2 | 1.55 | 1138 65 | 2 62 | 1137 58 | 2 57 | 1137 63 | 2 81 | 1137.39 |
| EVF1 | 1149 | 3.95 | 1145 05 | 3.79 | 1145 21 | 4 62 | 1144 38 | 6 01 | 1142 99 |
| EVF2 | 1148 5 | 9 75 | 1138 75 | 9 92 | 1138 58 | 9 33 | 1139 17 | 9 02 | 1139 48 |
| EVF3 | 1149 66 | 5 76 | 1143.9 | 5.92 | 1143 74 | 5 34 | 1144 32 | 4 96 | 1144 7 |
| EVF4 | 1149 4 | 4.72 | 1144 68 | 4 83 | 1144 57 | 4 25 | 1145 15 | 3 85 | 1145 55 |
| FVF3 | 1163 24 | 13 | 1150.24 | 13 11 | 1150 13 | 12 63 | 1150 61 | 12 47 | 1150 77 |
| FVF4 | 1163 26 | 13.8 | 1149 46 | 13 88 | 1149 38 | 13 41 | 1149 85 | 13 22 | 1150 04 |
| FVF6 | 1163 28 | 10 98 | 1152 3 | 11.03 | 1152 25 | 10 54 | 1152 74 | 10 29 | 1152 99 |
| H-S | 1177 4 | 2.29 | 1175.11 | 3 15 | 1174 25 | 2 7 | 1174 7 | 3 36 | 1174 04 |
| HVF1 | 1171 6 | 17 15 | 1154 45 | 17 03 | 1154 57 | 16 53 | 1155 07 | 16 37 | 1155.23 |
| IS | 1210 01 | 17 91 | 1192.1 | 17.8 | 1192 21 | 16 88 | 1193 13 | 16 41 | 1193 6 |
| JVF2 | 1146.6 | 9 96 | 1136 64 | 11.02 | 1135 58 | 10 94 | 1135 66 | 11 43 | 1135 17 |
| JVF3 | 1146 | 9.26 | 1136 74 | 10 07 | 1135 93 | 9 83 | 1136.17 | 10 01 | 1135 99 |
| JVF4 | 1146 71 | 7 63 | 1139 08 | 7 77 | 1138 94 | 7 42 | 1139.29 | 7 63 | 1139.08 |
| K-S | 1137 7 | 1.88 | 1135 82 | 3 13 | 1134 57 | 2 99 | 1134 71 | 3.15 | 1134.55 |
| K-V | 1138 | 0 | >1138 0 | 0 | >1138 0 | 0 | >1138 0 | 0 | >1138 0 |
| LVF1 | 1170 83 | 10 99 | 1159.84 | 10.23 | 1160 6 | 9.09 | 1161 74 | 8 63 | 1162.2 |
| LVF2 | 1170.2 | 18 19 | 1152.01 | 18.32 | 1151 88 | 17 85 | 1152.35 | 17 74 | 1152 46 |
| S-1 | 1175.59 | 14.82 | 1160.77 | 14.77 | 1160 82 | 14 35 | 1161.24 | 14 25 | 1161.34 |
| S-2 | 1170 06 | 7.55 | 1162.51 | 7.87 | 1162 19 | 7 66 | 1162.4 | 7.74 | 1162.32 |
| S-3 | 1169.31 | 4 58 | 1164 73 | 4.66 | 1164 65 | 4 47 | 1164.84 | 4 53 | 1164.78 |
| S-4 | 1181 18 | 3.72 | 1177.46 | 4.01 | 1177 17 | 3.89 | 1177 29 | 4.05 | 1177 13 |
| S-5 | 1208 51 | 15 09 | 1193.42 | 14.32 | 1194 19 | 12.51 | 1196 | 11 51 | 1197 |
| S-6 | 1191.09 | 5.72 | 1185 37 | 5.52 | 1185 57 | 4 82 | 1186.27 | 4 95 | 1186.14 |
| S-7 | 1183.34 | 3.39 | 1179.95 | 4.11 | 1179.23 | 3.89 | 1179.45 | 4.51 | 1178 83 |
| S-8 | 1192 12 | 2.57 | 1189.55 | 5.38 | 1186 74 | 4 82 | 1187.3 | 4 93 | 1187.19 |
| S-9 | 1200.76 | 16.28 | 1184.48 | 15.42 | 1185 34 | 13 42 | 1187.34 | 12 36 | 1188.4 |
| S-10 | 1203.08 | 10 7 | 1192.38 | 10 66 | 1192 42 | 9.62 | 1193.46 | 9 18 | 1193 9 |
| S-11 | 1197.96 | 5.95 | 1192.01 | 6.5 | 1191 46 | 5.9 | 1192.06 | 6 17 | 1191 79 |
| S-12 | 1182.05 | 2.07 | 1179 98 | 3.27 | 1178 78 | 3.19 | 1178.86 | 3.65 | 1178.4 |
| S-13 | 1168.94 | 2.68 | 1166.26 | 4.52 | 1164 42 | 4.28 | 1164 66 | 4 57 | 1164 37 |
| S-14 | 1158 7 | NA | NA | 3.13 | 1155 57 | 2.72 | 1155 98 | 2 49 | 1156.21 |
| S-15 | 1156 97 | NA | NA | 1 65 | 1155 32 | 0 9 | 1156 07 | 1.87 | 1155 1 |
| S-16 | 1159 28 | 12 51 | 1146 77 | 12.97 | 1146 31 | 12.57 | 1146 71 | 12 51 | 1146 77 |
| S-17 | 1157.14 | NA | NA | 1 63 | 1155 51 | 1.25 | 1155 89 | 1 07 | 1156.07 |
| S-18 | 1187.05 | 6.51 | 1180 54 | 7 02 | 1180 03 | 6.81 | 1180.24 | 6 69 | 1180.36 |
| S-19 | 1154 18 | 0 | >1154.18 | 0 | >1154 18 | 0 | >1154 18 | 0 | >1154 18 |

Note 1) NA = Not Available due to access issues.
2) > denotes artesian conditions

TABLE M2

MONTHLY MONITORING WELL WATER LEVELS 1994
SHALLOW GROUNDWATER SYSTEM
NEASE SITE SALEM, OHIO
Note All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| | | 5-94 | | 6-94 | | 7-94 | | 9-94 | | 10-94 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Well No | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| A-S | 1195.3 | 10.3 | 1185 | 11.45 | 1183.85 | 12.23 | 1183.07 | 12.98 | 1182.32 | 13.57 | 1181.73 |
| B-S | 1198.23 | 10.24 | 1187.99 | 11.73 | 1186.5 | 12.38 | 1185.85 | 13.08 | 1185.15 | 13.61 | 1184.62 |
| C-S | 1191.85 | 8.24 | 1183.61 | 9.36 | 1182.49 | 10 | 1181.85 | 10.59 | 1181.26 | 10.88 | 1180.97 |
| DVF3 | 1139.5 | 0 | >1139.5 | 0 | >1139.5 | 0 | >1139.5 | 0 | >1139.5 | 0 | >1139.5 |
| D-S | 1140.2 | 3.54 | 1136.66 | 4.12 | 1136.08 | 4.24 | 1135.96 | 3.77 | 1136.43 | 3.62 | 1136.58 |
| EVF1 | 1149 | 8.18 | 1140.82 | 8.95 | 1140.05 | 9.6 | 1139.4 | 9.34 | 1139.66 | 8.62 | 1140.38 |
| EVF2 | 1148.5 | 9.89 | 1138.61 | 10.71 | 1137.79 | 11.11 | 1137.39 | 11.41 | 1137.09 | 11.38 | 1137.12 |
| EVF3 | 1149.66 | 5.71 | 1143.95 | 6.36 | 1143.3 | 6.7 | 1142.96 | 6.97 | 1142.69 | 7.01 | 1142.65 |
| EVF4 | 1149.4 | 4.6 | 1144.8 | 5.26 | 1144.14 | 5.6 | 1143.8 | 5.89 | 1143.51 | 5.95 | 1143.45 |
| FVF3 | 1163.24 | 13.21 | 1150.03 | 13.84 | 1149.4 | 14.12 | 1149.12 | 14.24 | 1149 | 14.22 | 1149.02 |
| FVF4 | 1163.26 | 13.98 | 1149.28 | 14.61 | 1148.65 | 14.89 | 1148.37 | 15.01 | 1148.25 | 14.99 | 1148.27 |
| FVF6 | 1163.28 | 10.95 | 1152.33 | 11.59 | 1151.69 | 11.93 | 1151.35 | 11.99 | 1151.29 | 11.95 | 1151.33 |
| H-S | 1177.4 | 5.99 | 1171.41 | 6.6 | 1170.8 | 6.96 | 1170.44 | 6.73 | 1170.67 | 6.62 | 1170.78 |
| HVF1 | 1171.6 | 17.03 | 1154.57 | 17.5 | 1154.1 | 17.72 | 1153.88 | 17.93 | 1153.67 | 17.92 | 1153.68 |
| IS | 1210.01 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| JVF2 | 1146.6 | 12.19 | 1134.41 | 12.93 | 1133.67 | 13.1 | 1133.5 | 13.17 | 1133.43 | 12.9 | 1133.7 |
| JVF3 | 1146 | 10.55 | 1135.45 | 11.13 | 1134.87 | 11.33 | 1134.67 | 11.49 | 1134.51 | 11.43 | 1134.57 |
| JVF4 | 1146.71 | 7.94 | 1138.77 | 8.63 | 1138.08 | 8.85 | 1137.86 | 9.03 | 1137.68 | 8.94 | 1137.77 |
| K-S | 1137.7 | 3.45 | 1134.25 | 3.88 | 1133.82 | 3.95 | 1133.75 | 3.75 | 1133.95 | 3.55 | 1134.15 |
| K-V | 1138 | 0 | >1138.0 | 0.35 | 1137.65 | 0.68 | 1137.32 | 0.9 | 1137.1 | 0.85 | 1137.15 |
| LVF1 | 1170.83 | 10.28 | 1160.55 | 11.7 | 1159.13 | 13.02 | 1157.81 | 14.81 | 1156.02 | 16.05 | 1154.78 |
| LVF2 | 1170.2 | 18.35 | 1151.85 | 18.83 | 1151.37 | 19.07 | 1151.13 | 19.3 | 1150.9 | 19.28 | 1150.92 |
| S-1 | 1175.59 | 14.94 | 1160.65 | 15.55 | 1160.04 | 15.79 | 1159.8 | 16.05 | 1159.54 | 16.05 | 1159.54 |
| S-2 | 1170.06 | 8.42 | 1161.64 | 9.12 | 1160.94 | 9.42 | 1160.64 | 9.5 | 1160.56 | 9.31 | 1160.75 |
| S-3 | 1169.31 | 5.22 | 1164.09 | 5.88 | 1163.43 | 6.07 | 1163.24 | 6.17 | 1163.14 | 6.15 | 1163.16 |
| S-4 | 1181.18 | 4.56 | 1176.62 | 5.76 | 1175.42 | 5.92 | 1175.26 | 5.63 | 1175.55 | 5.3 | 1175.88 |
| S-5 | 1208.51 | 14.55 | 1193.96 | 15.63 | 1192.88 | [illegible] | 1192.9 | 15.62 | 1192.89 | 15.63 | 1192.88 |
| S-6 | 1191.09 | 6.45 | 1184.64 | 6.8 | 1184.29 | 7.12 | 1183.97 | 7.4 | 1183.69 | 7.75 | 1183.34 |
| S-7 | 1183.34 | 6.19 | 1177.15 | 7.77 | 1175.57 | 8.34 | 1175 | 8.11 | 1175.23 | 7.72 | 1175.62 |
| S-8 | 1192.12 | 6.2 | 1185.92 | 6.48 | 1185.64 | 6.95 | 1185.17 | 7.29 | 1184.83 | 7.73 | 1184.39 |
| S-9 | 1200.76 | 15.65 | 1185.11 | 16.61 | 1184.15 | 17.19 | 1183.57 | 17.73 | 1183.03 | 18.16 | 1182.6 |
| S-10 | 1203.08 | 10.97 | 1192.11 | 12.25 | 1190.83 | 13.07 | 1190.01 | 13.84 | 1189.24 | 14.83 | 1188.25 |
| S-11 | 1197.96 | 9.31 | 1188.65 | 9.95 | 1188.01 | 10.94 | 1187.02 | 11.24 | 1186.72 | 12.52 | 1185.44 |
| S-12 | 1182.05 | 4.99 | 1177.06 | 6.03 | 1176.02 | 5.88 | 1176.17 | 5.76 | 1176.29 | 5.89 | 1176.16 |
| S-13 | 1168.94 | 5.33 | 1163.61 | 5.66 | 1163.28 | 5.67 | 1163.27 | 5.64 | 1163.3 | 5.63 | 1163.31 |
| S-14 | 1158.7 | 3.17 | 1155.53 | 3.66 | 1155.04 | 3.83 | 1154.87 | 4.01 | 1154.69 | 4.02 | 1154.68 |
| S-15 | 1156.97 | 2.3 | 1154.67 | 2.62 | 1154.35 | 2.63 | 1154.34 | 1.45 | 1155.52 | 2.88 | 1154.09 |
| S-16 | 1159.28 | 12.97 | 1146.31 | 13.52 | 1145.76 | 13.83 | 1145.45 | 14.12 | 1145.16 | 14.08 | 1145.2 |
| S-17 | 1157.14 | 1.78 | 1155.36 | 2.23 | 1154.91 | 2.41 | 1154.73 | 2.57 | 1154.57 | 2.54 | 1154.6 |
| S-18 | 1187.05 | 7.57 | 1179.48 | 8.97 | 1178.08 | 10.5 | 1176.55 | 11.36 | 1175.69 | 11.36 | 1175.69 |
| S-19 | 1154.18 | 0 | >1154.18 | 0 | >1154.18 | 0 | >1154.18 | 0 | >1154.18 | 0 | >1154.18 |

Note 1) NA = Not Available due to access issues
2) No sampling during 8/94

TABLE M3
MONTHLY MONITORING WELL WATER LEVELS 1993
DEEP GROUNDWATER SYSTEM
NEASE SITE, SALEM, OHIO

| Sampling Date | | 3-93 | | 4-93 | | 5-93 | | 7-93 | | 8-93 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitor Well | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| AUBA | 1196.31 | 27.88 | 1168.43 | 28.56 | 1167.75 | 29.34 | 1166.97 | 29.26 | 1167.05 | 30.02 | 1166.29 |
| CLBA | 1191.8 | 102 | 1089.8 | 97.59 | 1094.21 | 80.41 | 1111.39 | 62.81 | 1128.99 | 51.8 | 1140 |
| CUBA | 1192 | 8.21 | 1183.79 | 9.17 | 1182.83 | 10.2 | 1181.8 | 10.27 | 1181.73 | 11.03 | 1180.97 |
| DLBA* | 1140.52 | NS | - | NS | - | NS | - | NS | - | NS | - |
| D1 | 1200.26 | 21.7 | 1178.56 | 22.58 | 1177.68 | 23.55 | 1176.71 | 23.39 | 1176.87 | 24.3 | 1175.96 |
| D10 | 1163.18 | 9.57 | 1153.61 | 9.9 | 1153.28 | 10.53 | 1152.65 | 10.69 | 1152.49 | 11.22 | 1151.96 |
| D11 | 1184.47 | 22.95 | 1161.52 | 23.15 | 1161.32 | 23.9 | 1160.57 | 23.7 | 1160.77 | 24.46 | 1160.01 |
| D12 | 1182.56 | 21.39 | 1161.17 | 21.58 | 1160.98 | 22.37 | 1160.19 | 22.24 | 1160.32 | 22.98 | 1159.58 |
| D13 | 1184.97 | 29.08 | 1155.89 | 29.14 | 1155.83 | 29.61 | 1155.36 | 29.77 | 1155.2 | 30.31 | 1154.66 |
| D14 | 1165.96 | 5.41 | 1160.55 | 5.12 | 1160.84 | 5.57 | 1160.39 | 5.87 | 1160.09 | 6.34 | 1159.62 |
| D15 | 1164.12 | 5.94 | 1158.18 | 6.1 | 1158.02 | 6.81 | 1157.31 | 6.75 | 1157.37 | 7.39 | 1156.73 |
| D16 | 1149 | 0 | >1149.0 | 0 | >1149.0 | 0 | >1149.0 | 0 | >1149.0 | 0 | >1149.0 |
| D17 | 1161.33 | 3.62 | 1157.71 | 3.77 | 1157.56 | 4.47 | 1156.86 | 4.39 | 1156.94 | 5.02 | 1156.31 |
| D2 | 1182.88 | 23.51 | 1159.37 | 23.72 | 1159.16 | 24.54 | 1158.34 | 24.4 | 1158.48 | 25.2 | 1157.68 |
| D3 | 1169.58 | 8.28 | 1161.3 | 8.54 | 1161.04 | 9.4 | 1160.18 | 9.34 | 1160.24 | 10.01 | 1159.57 |
| D4 | 1181.95 | 19.87 | 1162.08 | 20.02 | 1161.93 | 20.71 | 1161.24 | 20.84 | 1161.11 | 21.25 | 1160.7 |
| D5 | 1214.48 | 29.71 | 1184.77 | 30.63 | 1183.85 | 31.56 | 1182.92 | 31.38 | 1183.1 | 32.48 | 1182 |
| D6 | 1191.12 | 22.84 | 1168.28 | 22.72 | 1168.4 | 23.05 | 1168.07 | 23.02 | 1168.1 | 23.19 | 1167.93 |
| D7 | 1158.72 | 2.56 | 1156.16 | 2.72 | 1156 | 3.38 | 1155.34 | 3.34 | 1155.38 | 3.92 | 1154.8 |
| D8 | 1157.48 | 1.19 | 1156.29 | 1.35 | 1156.13 | 2.02 | 1155.46 | 1.95 | 1155.53 | 2.54 | 1154.94 |
| D9 | 1159.1 | 14.83 | 1144.27 | 14.89 | 1144.21 | 15.41 | 1143.69 | 15.53 | 1143.57 | 16.11 | 1142.99 |
| ELBA | 1148.84 | 1.47 | 1147.37 | 1.72 | 1147.12 | 2.32 | 1146.52 | 2.57 | 1146.27 | 3.19 | 1145.65 |
| FLBA | 1163.48 | 9.64 | 1153.84 | 10.03 | 1153.45 | 10.69 | 1152.79 | 10.97 | 1152.51 | 11.39 | 1152.09 |
| GUBA | 1159 | 2.62 | 1156.38 | 3.04 | 1155.96 | 3.71 | 1155.29 | 3.63 | 1155.37 | 4.25 | 1154.75 |
| HUBA | 1172.04 | 16.03 | 1156.01 | 16.18 | 1155.86 | 16.83 | 1155.21 | 16.78 | 1155.26 | 17.4 | 1154.64 |
| I-SHALE | 1209.96 | 16.6 | 1193.36 | 17.5 | 1192.46 | 18.93 | 1191.03 | 18.32 | 1191.64 | 20.27 | 1189.69 |
| ILBA | 1210.01 | 42.3 | 1167.71 | 42.1 | 1167.91 | 42.51 | 1167.5 | 43.06 | 1166.95 | 43.16 | 1166.85 |
| IUBA | 1210.16 | 26.13 | 1184.03 | 27.06 | 1183.1 | 28.07 | 1182.09 | 27.86 | 1182.3 | 28.92 | 1181.24 |
| JLBA | 1146.81 | 4.52 | 1142.29 | 4.6 | 1142.21 | 5.06 | 1141.75 | 5.23 | 1141.58 | 5.85 | 1140.96 |
| KLBA | 1140.99 | 0 | 1140.99 | 0 | 1140.99 | 0.21 | 1140.78 | 0.4 | 1140.59 | 1.09 | 1139.9 |
| LLBA | 1170.61 | 21.24 | 1149.37 | 21.46 | 1149.15 | 21.97 | 1148.64 | 22.21 | 1148.4 | 22.78 | 1147.83 |

* DLBA has a bolted cap. During construction, 11 ft. of artesian head was measured.

NS = Not sampled

NA = Not available due to access issues

No sampling event during 6/93

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TABLE M3
MONTHLY MONITORING WELL WATER LEVELS 1993
DEEP GROUNDWATER SYSTEM
NEASE SITE, SALEM, OHIO

| Sampling Date | | 9-93 | | 10-93 | | 11-93 | | 12-93 | |
|---|---|---|---|---|---|---|---|---|---|
| Monitor Well | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| AUBA | 1196 31 | 30 21 | 1166.1 | 30 08 | 1166.23 | 29.43 | 1166 88 | 29 22 | 1167 09 |
| CLBA | 1191.8 | 44 62 | 1147.18 | 37 52 | 1154 28 | 32 17 | 1159 63 | 30 29 | 1161 51 |
| CUBA | 1192 | 11.24 | 1180.76 | 11.19 | 1180 81 | 10 53 | 1181.47 | 10 14 | 1181.86 |
| DLBA* | 1140 52 | NS | - | NS | - | NS | - | NS | - |
| D1 | 1200 26 | 24 41 | 1175.85 | 24.32 | 1175 94 | 23 58 | 1176.68 | 23 31 | 1176 95 |
| D10 | 1163 18 | 11.56 | 1151.62 | 11.66 | 1151 52 | 10 75 | 1152.43 | 10 76 | 1152 42 |
| D11 | 1184 47 | 24 54 | 1159.93 | 24.6 | 1159 87 | 23 89 | 1160.58 | 23 07 | 1161 4 |
| D12 | 1182.56 | 23 11 | 1159.45 | 23 08 | 1159 48 | 22 32 | 1160 24 | 22.21 | 1160 35 |
| D13 | 1184 97 | 30 68 | 1154 29 | 30.79 | 1154 18 | 30 33 | 1154 64 | 30 13 | 1154 84 |
| D14 | 1165 96 | 6 64 | 1159.32 | 6 75 | 1159 21 | 6 33 | 1159 63 | 6 08 | 1159 88 |
| D15 | 1164.12 | 7 54 | 1156.58 | 7.5 | 1156 62 | 6 51 | 1157 61 | 6 73 | 1157 39 |
| D16 | 1149 | 0 | >1149.0 | 0 | >1149 0 | 0 | >1149 0 | 0 | >1149 0 |
| D17 | 1161.33 | 5.18 | 1156.15 | 5.15 | 1156.18 | 4 17 | 1157 16 | 4 39 | 1156 94 |
| D2 | 1182 88 | 25.33 | 1157.55 | 25.39 | 1157.49 | 24 71 | 1158.17 | 24 55 | 1158 33 |
| D3 | 1169 58 | 10.15 | 1159.43 | 10.21 | 1159.37 | 9.1 | 1160.48 | 9 28 | 1160 3 |
| D4 | 1181.95 | 21.35 | 1160.6 | 21.28 | 1160.67 | 20 63 | 1161.32 | 20.54 | 1161.41 |
| D5 | 1214.48 | 32.52 | 1181.96 | 32.62 | 1181.86 | 31.84 | 1182 64 | 31 32 | 1183 16 |
| D6 | 1191.12 | 23 21 | 1167.91 | 23.35 | 1167.77 | 23.21 | 1167 91 | 23.05 | 1168 07 |
| D7 | 1158 72 | 4.08 | 1154.64 | 4.1 | 1154.62 | 3.19 | 1155.53 | 3 35 | 1155 37 |
| D8 | 1157.48 | 2.71 | 1154.77 | 2.72 | 1154.76 | 1.8 | 1155.68 | 1.97 | 1155 51 |
| D9 | 1159.1 | 16 16 | 1142.94 | 16.2 | 1142.9 | 15.32 | 1143.78 | 15.32 | 1143.78 |
| ELBA | 1148.84 | 3.57 | 1145.27 | 3.72 | 1145.12 | 2.91 | 1145.93 | 2.86 | 1145 98 |
| FLBA | 1163.48 | 11 .7 | 1151.71 | 11.86 | 1151 62 | .1 06 | 1152 42 | 11.02 | 1152.46 |
| GUBA | 1159 | 4.36 | 1154.64 | 4.42 | 1154.58 | 3.51 | 1155.49 | 3.67 | 1155.33 |
| HUBA | 1172.04 | 17.53 | 1154.51 | 17.62 | 1154.42 | 16 69 | 1155.35 | 16 81 | 1155 23 |
| I-SHALE | 1209.96 | 20.77 | 1189.19 | 21.88 | 1188.08 | 20.21 | 1189.75 | 18.73 | 1191.23 |
| ILBA | 1210.01 | 43.45 | 1166.56 | 43.5 | 1166.51 | 43 92 | 1166.09 | 44.13 | 1165.88 |
| IUBA | 1210.16 | 28 99 | 1181.17 | 29.03 | 1181.13 | 28.24 | 1181 92 | 27 83 | 1182 33 |
| JLBA | 1146 81 | 6.15 | 1140.66 | 6.25 | 1140.56 | 5.3 | 1141.51 | 5.32 | 1141.49 |
| KLBA | 1140.99 | 1.4 | 1139.59 | 1.55 | 1139.44 | 0.55 | 1140.44 | 0.55 | 1140 44 |
| LLBA | 1170.61 | 23 1 | 1147.51 | 23.15 | 1147 46 | 22 43 | 1148 18 | 22.4 | 1148 21 |

* DLBA has a bolted cap. During construction, 11 ft. of artesian head was measured.

NS = Not sampled

NA = Not available due to access issues

No sampling event during 6/93

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TABLE M4

MONTHLY MONITORING WELL WATER LEVELS 1994

DEEP GROUNDWATER SYSTEM

NEASE SITE, SALEM OHIO

Note All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| Sampling Date | | 1-94 | | 2-94 | | 3-9 | | 4-94 | | 5-94 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitor Well | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| AUBA | 1196 31 | 28 9 | 1167.41 | 28.95 | 1167 36 | 28.27 | 1168 04 | 28 31 | 1168 | 29 24 | 1167 07 |
| CLBS | 1191.8 | 26 96 | 1164.84 | 25.16 | 1166 64 | 23 25 | 1168 55 | 21.62 | 1170.18 | 20.26 | 1171 54 |
| CUBA | 1192 | 10.3 | 1181.7 | 9.88 | 1182.12 | 8 98 | 1183 02 | 8 83 | 1183.17 | 10.11 | 1181.89 |
| DLBA* | 1140.52 | NS | - | NS | - | NS | - | NS | - | NS | - |
| D1 | 1200.26 | 23 03 | 1177.23 | 23 07 | 1177.19 | 22 22 | 1178 04 | 22 14 | 1178 12 | 23 3 | 1176 96 |
| D10 | 1163 18 | 10 47 | 1152 71 | 10.55 | 1152.63 | 10 06 | 1153 12 | 9 78 | 1153 4 | 10 4 | 1152 78 |
| D11 | 1184 47 | 21 9 | 1162 57 | 23 43 | 1161.04 | 22 96 | 1161.51 | 22 92 | 1161.55 | 23 63 | 1160 84 |
| D12 | 1182 56 | 21.64 | 1160 92 | 21.99 | 1160 57 | 21 52 | 1161 04 | 21 5 | 1161 06 | 22 22 | 1160 34 |
| D13 | 1184 97 | 29 92 | 1155.05 | 29 84 | 1155 13 | 29 52 | 1155 45 | 29 03 | 1155 94 | 29 48 | 1155 49 |
| D14 | 1165 96 | 4.67 | 1161 29 | 5 61 | 1160.35 | 5 57 | 1160 39 | 5 47 | 1160 49 | 5 57 | 1160.39 |
| D15 | 1164 12 | 6 15 | 1157.97 | 6 5 | 1157 62 | 6 09 | 1158 03 | 6.05 | 1158 07 | 6 76 | 1157 36 |
| D16 | 1149 | 0 | >1149.0 | 0 | >1149 0 | 0 | >1149 0 | 0 | >1149 0 | 0 | >1149 0 |
| D17 | 1161 33 | 3.82 | 1157.51 | 4.17 | 1157 16 | 3 76 | 1157 57 | 3.71 | 1157 62 | 4 42 | 1156 91 |
| D2 | 1182 88 | 23 34 | 1159.54 | 24 22 | 1158 66 | 23 76 | 1159 12 | 23 71 | 1159 17 | 24 46 | 1158 42 |
| D3 | 1169 58 | 8 94 | 1160.64 | 9.09 | 1160 49 | 8 69 | 1160.89 | 8 63 | 1160 95 | 9 39 | 1160 19 |
| D4 | 1181 95 | 20 19 | 1161.76 | 20.33 | 1161.62 | 19 99 | 1161.96 | 20.01 | 1161.94 | 20 51 | 1161.44 |
| D5 | 1214 48 | 31.23 | 1183 25 | 31.08 | 1183 4 | 30 11 | 1184 37 | 29 86 | 1184.62 | 30 93 | 1183 55 |
| D6 | 1191.12 | 22.75 | 1168.37 | 23.06 | 1168 06 | 22 76 | 1168 36 | 22 98 | 1168.14 | 23.04 | 1168.08 |
| D7 | 1158.72 | NS | 1158.72 | 3.13 | 1155.59 | 2 72 | 1156 | 2 63 | 1156 09 | 3 32 | 1155.4 |
| D8 | 1157 48 | NS | 1157 48 | 1.75 | 1155.73 | 1 34 | 1156 14 | 1.25 | 1156.23 | 1.95 | 1155.53 |
| D9 | 1159 1 | 15 | 1144.1 | 15.05 | 1144 05 | 14.61 | 1144 49 | 14.36 | 1144.74 | 14 88 | 1144.22 |
| ELBA | 1148.84 | 2.37 | 1146.47 | 2.56 | 1146.28 | 2 05 | 1146 79 | 1 67 | 1147 17 | 2 25 | 1146.59 |
| FLBA | 1163 48 | 10 7 | 1152.78 | 10.76 | 1152 72 | 10 34 | 1153.14 | 9 95 | 1153 53 | 10.4 | 1153 08 |
| GUBA | 1159 | 3.33 | 1155.67 | 3.46 | 1155.54 | 3.05 | 1155.95 | 2.95 | 1156.05 | 3 66 | 1155 34 |
| HUBA | 1172.04 | 16.57 | 1155.47 | 16.61 | 1155 43 | 16 07 | 1155.97 | 16.06 | 1155 98 | 16.75 | 1155.29 |
| I-SHALE | 1209 96 | 17 68 | 1192.28 | 17.77 | 1192 19 | 16 86 | 1193 1 | 16 38 | 1193.58 | NA | NA |
| ILBA | 1210 01 | 44.21 | 1165.8 | 44.25 | 1165.76 | 44.3 | 1165.71 | 43.94 | 1166.07 | NA | NA |
| IUBA | 1210.16 | 27.78 | 1182.38 | 27.73 | 1182 43 | 26.8 | 1183.36 | 26 61 | 1183.55 | NA | NA |
| JLBA | 1146.81 | 4 81 | 1142 | 5 02 | 1141.79 | 4 62 | 1142.19 | 4 43 | 1142 38 | 4.9 | 1141.91 |
| KLBA | 1140 99 | 0 | 1140.99 | 0.23 | 1140 76 | 0 | 1140.99 | 0 | 1140.99 | 0.14 | 1140.85 |
| LLBA | 1170 61 | 22.52 | 1148.09 | 22.18 | 1148 43 | 21 81 | 1148 8 | 21 42 | 1149 19 | 21 89 | 1148 72 |

* DLBA has a bolted cap During construction, 11. ft. of artesian head was measured

NS = Not sampled.

NA = Not Available due to access issues

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TABLE M4

MONTHLY MONITORING WELL WATER LEVELS: 1994

DEEP GROUNDWATER SYSTEM

NEASE SITE, SALEM, OHIO

Note: All Water Level Elevations in Feet Above Mean Sea Level (MSL)

| Sampling Date | | 6-94 | | 7-94 | | 9-94 | | 10-94 | |
|---|---|---|---|---|---|---|---|---|---|
| Monitor Well | Casing Elevation (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) | Depth To Water (ft) | Water Level (MSL) |
| AUBA | 1196.31 | 30.01 | 1166.3 | 30.5 | 1136.91 | 30.18 | 1137.18 | 29.92 | 1138.12 |
| CLBA | 1191.8 | 19.12 | 1172.68 | 18.35 | 1146.49 | 17.4 | 1149.24 | 16.62 | 1151.93 |
| CUBA | 1192 | 11.11 | 1180.89 | 11.52 | 1170.18 | 11.47 | 1170.65 | 11.35 | 1171.67 |
| DLBA* | 1140.52 | NS | - | NS | - | NS | - | NS | - |
| D1 | 1200.26 | 24.19 | 1176.07 | 24.6 | 1152.63 | 24.42 | 1152.77 | 24.21 | 1153.83 |
| D10 | 1163.18 | 11.08 | 1152.1 | 11.4 | 1141.31 | 11.5 | 1141.13 | 11.47 | 1141.65 |
| D11 | 1184.47 | 24.18 | 1160.29 | 24.5 | 1138.07 | 24.58 | 1136.46 | 24.51 | 1137 |
| D12 | 1182.56 | 22.81 | 1159.75 | 23.07 | 1137.85 | 23.21 | 1137.36 | 23.15 | 1137.89 |
| D13 | 1184.97 | 30.1 | 1154.87 | 30.45 | 1124.6 | 30.6 | 1124.53 | 30.58 | 1124.87 |
| D14 | 1165.96 | 6.17 | 1159.79 | 6.42 | 1154.87 | 6.52 | 1153.83 | 6.5 | 1153.89 |
| D15 | 1164.12 | 7.23 | 1156.89 | 7.45 | 1150.52 | 7.62 | 1150 | 7.52 | 1150.51 |
| D16 | 1149 | 0 | >1149.0 | 0 | >1149.0 | 0.33 | 1148.67 | 0.33 | 1148.67 |
| D17 | 1161.33 | 4.9 | 1156.43 | 5.07 | 1152.44 | 5.25 | 1151.91 | 5.16 | 1152.41 |
| D2 | 1182.88 | 25.03 | 1157.85 | 25.35 | 1134.19 | 25.46 | 1133.2 | 25.47 | 1133.65 |
| D3 | 1169.58 | 9.98 | 1159.6 | 10.18 | 1150.46 | 10.38 | 1150.11 | 10.34 | 1150.55 |
| D4 | 1181.95 | 21.02 | 1160.93 | 21.24 | 1140.52 | 21.46 | 1140.16 | 21.37 | 1140.59 |
| D5 | 1214.48 | 32.21 | 1182.27 | 32.66 | 1150.59 | 32.69 | 1150.71 | 32.69 | 1151.68 |
| D6 | 1191.12 | 23.16 | 1167.96 | 23.26 | 1145.11 | 23.24 | 1144.82 | 23.27 | 1145.09 |
| D7 | 1158.72 | 3.8 | 1154.92 | 3.98 | 1154.74 | 4.13 | 1151.46 | 4.08 | 1151.92 |
| D8 | 1157.48 | 2.42 | 1155.06 | 2.6 | 1154.88 | 2.76 | 1152.97 | 2.7 | 1153.44 |
| D9 | 1159.1 | 15.56 | 1143.54 | 15.82 | 1128.28 | 16.01 | 1128.04 | 15.95 | 1128.54 |
| ELBA | 1148.84 | 2.89 | 1145.95 | 3.21 | 1143.26 | 3.41 | 1142.87 | 3.41 | 1143.38 |
| FLBA | 1163.48 | 11.1 | 1152.38 | 11.44 | 1141.34 | 11.58 | 1141.14 | 11.57 | 1141.57 |
| GUBA | 1159 | 4.12 | 1154.88 | 4.3 | 1151.37 | 4.45 | 1151.09 | 4.4 | 1151.55 |
| HUBA | 1172.04 | 17.25 | 1154.79 | 17.45 | 1138.02 | 17.6 | 1137.83 | 17.58 | 1138.39 |
| I-SHALE | 1209.96 | NA | NA | NA | NA | NA | NA | NA | NA |
| ILBA | 1210.01 | NA | NA | NA | NA | NA | NA | NA | NA |
| IUBA | 1210.16 | NA | NA | NA | NA | NA | NA | NA | NA |
| JLBA | 1146.81 | 5.61 | 1141.2 | 5.9 | 1136.1 | 6.12 | 1135.67 | 6.09 | 1136.1 |
| KLBA | 1140.99 | 0.87 | 1140.12 | 1.21 | 1139.78 | 1.47 | 1139.29 | 1.43 | 1139.56 |
| LLBA | 1170.61 | 22.52 | 1148.09 | 22.82 | 1125.27 | 22.99 | 1125.44 | 23.02 | 1125.78 |

* DLBA has a bolted cap. During construction, 11. ft. of artesian head was measured

NS = Not sampled

NA = Not Available due to access issues.

No sampling event during 8/94

*mtl_d \projects\933-6154\ri.rpt\tables\tbl-m4.wq1*