AWARE
INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 9/2/88

| AWARE SAMPLE DESCRIPTION | 5284 |
|---|---|
| CLIENT SAMPLE DESCRIPTION | OUTFALL METALS PLANT |

| BASE NEUTRAL COMPOUNDS | DETECTION LIMITS | CONC |
|---|---|---|
| ACENAPHTHENE | 10 | ND |
| ACENAPTHYLENE | 10 | ND |
| ANTHRACENE | 10 | ND |
| BENZIDINE | 10 | ND |
| BENZO (A) ANTHRACENE | 10 | ND |
| BENZO (A) PYRENE | 10 | ND |
| 3,4-BENZOFLUORANTHENE | 10 | ND |
| BENZO (GHI) PERYLENE | 10 | ND |
| BENZO (K) FLUORANTHENE | 10 | ND |
| BIS (2-CHLOROETHOXY) METHANE | 10 | ND |
| BIS (2-CHLOROETHYL) ETHER | 10 | ND |
| BIS (2-CHLOROISOPROPYL) ETHER | 10 | ND |
| BIS (2-ETHYLHEXYL) PHTHALATE | 10 | ND |
| 4-BROMOPHENYL PHENYL ETHER | 10 | ND |
| BUTYL BENZYL PHTHALATE | 10 | ND |
| 2-CHLORONAPHTHALENE | 10 | ND |
| 4-CHLOROPHENYL PHENYL ETHER | 10 | ND |
| CHRYSENE | 10 | ND |
| DIBENZO (A,H) ANTHRACENE | 10 | ND |
| 1,2-DICHLOROBENZENE | 10 | ND |
| 1,3-DICHLOROBENZENE | 10 | ND |
| 1,4-DICHLOROBENZENE | 10 | ND |
| 3,3-DICHLOROBENZIDINE | 10 | ND |
| DIETHYL PHTHALATE | 10 | ND |
| DIMETHYL PHTHALATE | 10 | ND |
| DI-N-BUTYL PHTHALATE | 10 | ND |
| 2,4-DINITROTOLUENE | 10 | ND |
| 2,6-DINITROTOLUENE | 10 | ND |

ALL RESULTS EXPRESSED IN PPB.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

227 French Landing Drive • MetroCenter • Nashville, TN 37228 • Phone (615) 255-2288

AWARE
INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 9/2/88

| AWARE SAMPLE DESCRIPTION | 5284 |
|---|---|
| CLIENT SAMPLE DESCRIPTION | OUTFALL METALS PLANT |
| BASE NEUTRAL COMPOUNDS CONT'D | DETECTION LIMITS | CONC |
| DI-N-OCTYL PHTHALATE | 10 | ND |
| 1,2-DIPHENYLHYDRAZINE | 10 | ND |
| FLUORANTHENE | 10 | ND |
| FLUORENE | 10 | ND |
| HEXACHLOROBENZENE | 10 | ND |
| HEXACHLOROBUTADIENE | 10 | ND |
| HEXACHLOROCYCLOPENTADIENE | 10 | ND |
| HEXACHLOROETHANE | 10 | ND |
| INDENO (1,2,3-CD) PYRENE | 10 | ND |
| ISOPHORONE | 10 | ND |
| NAPHTHALENE | 10 | ND |
| NITROBENZENE | 10 | ND |
| N-NITROSODIMETHYLAMINE | 10 | ND |
| N-NITROSODI-N-PROPYLAMINE | 10 | ND |
| N-NITROSODIPHENYLAMINE | 10 | ND |
| PHENANTHRENE | 10 | ND |
| PYRENE | 10 | ND |
| 1,2,4-TRICHLOROBENZENE | 10 | ND |

ALL RESULTS EXPRESSED IN PPB.

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AWARE
INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 9/2/88

| AWARE SAMPLE DESCRIPTION | 5284 |
|---|---|
| CLIENT SAMPLE DESCRIPTION | OUTFALL METALS PLANT |

| ACID EXTRACTABLES COMPOUNDS | DETECTION LIMITS | CONC |
|---|---|---|
| 2-CHLOROPHENOL | 20 | ND |
| 2,4-DICHLOROPHENOL | 20 | ND |
| 2,4-DIMETHYLPHENOL | 20 | ND |
| 4,6-DINITRO-O-CRESOL | 20 | ND |
| 2,4-DINITROPHENOL | 20 | ND |
| 2-NITROPHENOL | 20 | ND |
| 4-NITROPHENOL | 20 | ND |
| P-CHLORO-M-CRESOL | 20 | ND |
| PENTACHLOROPHENOL | 20 | ND |
| PHENOL | 20 | ND |
| 2,4,6-TRICHLOROPHENOL | 20 | ND |

ALL RESULTS EXPRESSED IN PPB.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

227 French Landing Drive • MetroCenter • Nashville, TN 37228 • Phone (615) 255-2288

RESERVE ENVIRONMENTAL SERVICES INC.

5841 Woodmon Avenue • P.O. Box 1038 • Ashtabula, Ohio 44004

Phone (216) 997-5337

Dear Customer:

Based upon the RCRA regulations adopted May 19, 1980, RES must retain on file a detailed description of all waste material accepted for disposal. Also, the completion of this form will enable proper handling, storage and treatment of your waste materials. All information will be held in strict confidence.

All answers should be typewritten or printed in ink. Do not use pencil. Be thorough in completing the form by using Not Applicable or None in the appropriate blanks. Your cooperation in this matter is deeply appreciated.

Donald Koski, Vice-President

Please return form to: Reserve Environmental Services
5841 Woodman Avenue
Ashtabula, OH 44004 Phone: 216-997-5337 or 992-2162

PART I

Generator Name: RMI Company - Sodium Plant

Generating Facility (Location): State Road at East 6th Street
Ashtabula, Ohio 44004

Company Contact/Official (List Two)

| Name | Title | Phone |
|---|---|---|
| George W. Hakkio | Chief Engineer | 216 - 997-5141 |
| Lawrence S. Hanek | Plant Manager | 216 - 997-5141 |

PART II : #1 LAGOON

A. General Properties of the Waste Material:

Organic Inorganic

Mixture organic/inorganic
% Organic
% Inorganic

B. Physical Properties at Ambient Temperature:

Solid Sludge Liquid Dust/Powder

If other, please describe

C. Does the waste material emit any toxic or noxious fumes or gases that may be a health hazard? NO

PART III - If the waste material is a liquid, complete the following: N/A

pH _____ Hot Acidity (as $CaCO_3$) _____

Solids

Total % _____ Total Dissolved _____

Specific Gravity: _____ or pounds/unit volume _____

Principal Constituents (express as %)

| | | | |
|---|---|---|---|
| Sulfuric Acid ($H_2SO_4$) | _____ | Sodium Hydroxide (NaOH) | _____ |
| Hydrochloric Acid (HCl) | _____ | Ammonium Hydroxide ($NH_4OH$) | _____ |
| Hydrofluoric Acid (HF) | _____ | Calcium Hydroxide ($Ca(OH)_2$) | _____ |
| Nitric ($HNO_3$) | _____ | Calcium Oxide (CaO) | _____ |
| Phosphoric ($H_3PO_4$) | _____ | Sodium Carbonate ($Na_2CO_3$) | _____ |

Heavy Metals (mg/l or % concentration)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Al | _____ | Cu | _____ | Ni | _____ | Others | _____ |
| As | _____ | Fe | _____ | Se | _____ | | |
| Ba | _____ | Pb | _____ | Ag | _____ | | |
| Cd | _____ | Mn | _____ | Sn | _____ | | |
| Cr | _____ | Hg | _____ | Zn | _____ | | |

Others

| | | | |
|---|---|---|---|
| $NH_3$ | _____ | CN | _____ |

PART IV - If the waste material is a solid; complete the following:

Description of waste generating process or source (i.e., precipitated sludge from $H_2SO_4$ neutralization)

Precipitated sludge from chlorine neutralization.

Description of the physical properties of waste material (i.e., dry powder, liquid sludge, aggregate solids; filter cake, etc.)

Liquid sludge.

The solid waste is:

% Solids 60 % Moisture 40 Dry _____

Is the waste a "hazardous waste" as defined by the Resource Conservation and Recovery Act dated May 19, 1980

Yes _____ No X Pending Promulgation _____

If yes or pending promulgation, attach the most recent EPA leachate extraction analyses.

PART V

Quantity for disposal volume(s) 3000 T/YEAR *

*Express as; cubic yards/day, tons/week, gallons/day, etc.

Transporting/Hauling by: Generator _____ Disposer X

Type of equipment required: Drag line bucket to load dump trucks suitable for sludge waste transportation.

Please attach any other additional information that would be pertinent to the proper and lawfull handling, transporting, treating or disposal of your waste material.

Person Completing this Form L. S. Hanek
Please Print

Company or Official Signature L S Hanek

Title Plant Manager

Date August 4, 1981

RMI Company - Sodium Plant Attachment No. 1

## #1 Lagoon

### #1 Lagoon - Typical Analysis

| | |
|---|---|
| Water | 38.8% |
| HCl Insoluble | 1.7% |
| Ferric Oxide | .6% |
| Calcium Carbonate | 32.1% |
| Calcium Sulfate | 2.1% |
| Sodium Chloride | 3.2% |
| Calcium Chloride | 21.2% |
| Available Chlorine | .39% |

| EP Toxicity | Mg/l |
|---|---|
| As | <0.4 |
| Ba | .3 |
| Cd | < .01 |
| Cr | .10 |
| Pb | < .05 |
| Hg | .021 |
| Se | < .4 |
| Ag | .1 |

RESERVE ENVIRONMENTAL SERVICES INC.

5841 Woodmon Avenue • P.O. Box 1038 • Ashtabula, Ohio 44004

Phone (216) 997-5337

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Donald Koski, Vice-President

Please return form to: Reserve Environmental Services
5841 Woodman Avenue
Ashtabula, OH 44004 Phone: 216-997-5337 or 992-2162

PART I

Generator Name: RMI Company - Sodium Plant

Generating Facility (Location): State Road at East 6th Street
Ashtabula, Ohio 44004

Company Contact/Official (List Two)

| Name | Title | Phone |
|---|---|---|
| George W. Hakkio | Chief Engineer | 216 - 997-5141 |
| Lawrence S. Hanek | Plant Manager | 216 - 997-5141 |

PART II : #2 LAGOON

A. General Properties of the Waste Material:

Organic (Inorganic)

Mixture organic/inorganic
% Organic
% Inorganic

B. Physical Properties at Ambient Temperature:

Solid (Sludge) Liquid Dust/Powder

If other, please describe

C. Does the waste material emit any toxic or noxious fumes or gases that may be a health hazard? No

PART III - If the waste material is a liquid, complete the following: N/A

pH _____ Hot Acidity (as $CaCO_3$) _____

Solids

Total % _____ Total Dissolved _____

Specific Gravity: _____ or pounds/unit volume _____

Principal Constituents (express as %)

| | | | |
|---|---|---|---|
| Sulfuric Acid ($H_2SO_4$) | _____ | Sodium Hydroxide (NaOH) | _____ |
| Hydrochloric Acid (HCl) | _____ | Ammonium Hydroxide ($NH_4OH$) | _____ |
| Hydrofluoric Acid (HF) | _____ | Calcium Hydroxide ($Ca(OH)_2$) | _____ |
| Nitric ($HNO_3$) | _____ | Calcium Oxide (CaO) | _____ |
| Phosphoric ($H_3PO_4$) | _____ | Sodium Carbonate ($Na_2CO_3$) | _____ |

Heavy Metals (mg/l or % concentration)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Al | _____ | Cu | _____ | Ni | _____ | Others | _____ |
| As | _____ | Fe | _____ | Se | _____ | | |
| Ba | _____ | Pb | _____ | Ag | _____ | | |
| Cd | _____ | Mn | _____ | Sn | _____ | | |
| Cr | _____ | Hg | _____ | Zn | _____ | | |

Others

| | | | |
|---|---|---|---|
| $NH_3$ | _____ | CN | _____ |

PART IV - If the waste material is a solid; complete the following:

Description of waste generating process or source (i.e., precipitated sludge from $H_2SO_4$ neutralization)

Precipitated sludge from sulfuric acid neutralization, sludge from brine treatment, and various other in-plant streams.

Description of the physical properties of waste material (i.e., dry powder, liquid sludge, aggregate solids; filter cake, etc.)

Liquid sludge.

The solid waste is:

% Solids 40 % Moisture 60 Dry _____

Is the waste a "hazardous waste" as defined by the Resource Conservation and Recovery Act dated May 19, 1980

Yes _____ No X Pending Promulgation _____

If yes or pending promulgation, attach the most recent EPA leachate extraction analyses.

PART V

Quantity for disposal volume(s) 2000 T/Year *

*Express as; cubic yards/day, tons/week, gallons/day, etc.

Transporting/Hauling by: Generator _____ Disposer X

Type of equipment required: Drag line bucket to load dump trucks suitable for sludge waste transportation.

Please attach any other additional information that would be pertinent to the proper and lawfull handling, transporting, treating or disposal of your waste material.

Person Completing this Form L. S. Hanek
Please Print

Company or Official Signature L S Hanek

Title Plant Manager

Date August 4, 1981

RMI Company - Sodium Plant - Attachment No. 1

## #2 Lagoon

### #2 Lagoon - Typical Analysis

| | |
|---|---|
| Water | 61.7% |
| HCl Insoluble | 23.9% |
| Ferric Oxide | .5% |
| Calcium Carbonate | 2.6% |
| Calcium Sulfate | 5.3% |
| Sodium Chloride | 6.1% |
| Calcium Chloride | - |
| Available Chlorine | - |

| EP Toxicity | Mg/l |
|---|---|
| As | < .4 |
| Ba | .3 |
| Cd | < .01 |
| Cr | .076 |
| Pb | .05 |
| Hg | .0005 |
| Se | < .4 |
| Ag | < .05 |

RESERVE ENVIRONMENTAL SERVICES INC.

5841 Woodmon Avenue • P.O. Box 1038 • Ashtabula, Ohio 44004

Phone (216) 997-5337

Dear Customer:

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All answers should be typewritten or printed in ink. Do not use pencil. Be thorough in completing the form by using Not Applicable or None in the appropriate blanks. Your cooperation in this matter is deeply appreciated.

Donald Koski, Vice-President

Please return form to: Reserve Environmental Services
5841 Woodman Avenue
Ashtabula, OH 44004 Phone: 216-997-5337 or 992-2162

PART I

Generator Name: RMI Company - Sodium Plant

Generating Facility (Location): State Road at East 6th Street
Ashtabula, Ohio 44004

Company Contact/Official (List Two)

| Name | Title | Phone |
|---|---|---|
| George W. Hakkio | Chief Engineer | 216 - 997-5141 |
| Lawrence S. Hanek | Plant Manager | 216 - 997-5141 |

PART II : TREATMENT TANKS

A. General Properties of the Waste Material:

Organic (Inorganic)

Mixture organic/inorganic
% Organic _____
% Inorganic _____

B. Physical Properties at Ambient Temperature:

Solid (Sludge) Liquid Dust/Powder

If other, please describe _____

C. Does the waste material emit any toxic or noxious fumes or gases that may be a health hazard? NO

PART III - If the waste material is a liquid, complete the following: N/A

pH _____ Hot Acidity (as $CaCO_3$) _____

Solids

Total % _____ Total Dissolved _____

Specific Gravity: _____ or pounds/unit volume _____

Principal Constituents (express as %)

| | | | |
|---|---|---|---|
| Sulfuric Acid ($H_2SO_4$) | | Sodium Hydroxide (NaOH) | |
| Hydrochloric Acid (HCl) | | Ammonium Hydroxide ($NH_4OH$) | |
| Hydrofluoric Acid (HF) | | Calcium Hydroxide ($Ca(OH)_2$) | |
| Nitric ($HNO_3$) | | Calcium Oxide (CaO) | |
| Phosphoric ($H_3PO_4$) | | Sodium Carbonate ($Na_2CO_3$) | |

Heavy Metals (mg/l or % concentration)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Al | | Cu | | Ni | | Others | |
| As | | Fe | | Se | | | |
| Ba | | Pb | | Ag | | | |
| Cd | | Mn | | Sn | | | |
| Cr | | Hg | | Zn | | | |

Others

| | | | |
|---|---|---|---|
| $NH_3$ | | CN | |

PART IV - If the waste material is a solid; complete the following:

Description of waste generating process or source (i.e., precipitated sludge from $H_2SO_4$ neutralization)

Precipitated sludge from brine treatment.

Description of the physical properties of waste material (i.e., dry powder, liquid sludge, aggregate solids; filter cake, etc.)

Liquid sludge.

The solid waste is:

% Solids 88 % Moisture 12 Dry _____

Is the waste a "hazardous waste" as defined by the Resource Conservation and Recovery Act dated May 19, 1980

Yes _____ No X Pending Promulgation _____

If yes or pending promulgation, attach the most recent EPA leachate extraction analyses.

PART V

Quantity for disposal volume(s) 14 T/Week *

*Express as; cubic yards/day, tons/week, gallons/day, etc.

Transporting/Hauling by: Generator _____ Disposer X

Type of equipment required: Vacuum equipment or sludge pumps to vehicles suitable to haul waste sludge.

Please attach any other additional information that would be pertinent to the proper and lawfull handling, transporting, treating or disposal of your waste material.

Person Completing this Form L. S. Hanek
Please Print

Company or Official Signature L S Hanek

Title Plant Manager

Date August 4, 1981

RMI COMPANY - Sodium Plant - Attachment No. 1

## Treatment Tanks

### Treatment Tanks - Typical Analysis

| | |
|---|---|
| Barium Sulfate.. | 25.0% |
| Calcium Sulfate | 24.5% |
| Sodium Chloride | 28.7% |
| Iron | .5% |
| Water | 11.3% |

| EP Toxicity | Mg/l |
|---|---|
| As | < .04 |
| Ba | 1.5 |
| Cd | < .01 |
| Cr | < .01 |
| Pb | < .05 |
| Hg | .0006 |
| Se | < .04 |
| Ag | .08 |

# APPENDIX 9

# LABORATORY ANALYTICAL RESULTS

# GROUNDWATER DATA

AWARE INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY - SODIUM PLANT
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7324 | 7325 | 7326 | 7327 | 7328 | 7329 | 7330 | 7331 | 7332 | 7333 | 7334 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 4D | 4S | 3S | 5D | 5S | 6S | 7S | 8S | 9D | 9S | 10S |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| As (PPB) | 5.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ba | 0.50 | 6.2 | BMDL | 0.91 | 6.21 | 0.53 | 1.5 | BMDL | 1.9 | 1.1 | BMDL | BMDL |
| Cd (PPB) | 1.0 | 2.6 | 11.8a | 4.0 | 2.0 | 6.5 | 18.3a | 8.3b | 11.7c | 2.7b | BMDL | BMDL |
| Pb (PPB) | 10.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg (PPB) | 0.4 | 0.6 | 0.6 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Se (PPB) | 1.0 | BMDL | 1.5 | BMDL | BMDL | BMDL | 3.7 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag (PPB) | 30.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr (PPB) | 5.0 | 8.2 | 14.5 | 9.8 | 5.8 | 9.8 | BMDL | 5.9 | BMDL | 6.1a | BMDL | BMDL |
| Ca | 1.0 | 65.8 | 3410 | 6,060 | 714 | 4,660 | 11,700 | 854 | 10,000 | 755 | 179 | 557 |
| Mg | 1.0 | 229 | 353 | 262 | 219 | 477 | 747 | 206 | 939 | 238 | 59 | 161 |
| Na | 1.0 | 5630 | 3620 | 17,400 | 4,350 | 6,230 | 13,400 | 315 | 10,300 | 4,410 | 27.0 | 195 |
| K | 1.0 | 55.0 | 31.2 | 48.3 | 38.7 | 23.1 | 127 | 22.5 | 37.9 | 41.3 | 8.5 | 12.6 |
| CO3 AS CaCO3 | 1.0 | BMDL | BMDL | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HCO3 AS CaCO3 | 1.0 | 246 | 208 | 210 | 200 | 377 | 135 | 268 | 160 | 8,160 | 399 | 305 |
| pH (UNITS) | ----- | NR | NR | 6.39 | 7.08 | 6.42 | 6.34 | 7.15 | 6.29 | 7.83 | 7.35 | 6.94 |
| CONDUCTIVITY (UMHOS/CM) | 10 | NR | NR | 90,000 | 26,000 | 43,000 | 109,000 | 6,000 | 99,000 | 24,000 | 1,200 | 3,900 |
| TDS | 10 | 17,100 | 18,500 | 60,500 | 16,600 | 31,900 | 69,500 | 4,560 | 63,300 | 16,100 | 918 | 3,180 |
| Cl | 5.0 | 9440 | 10,600 | 37,800 | 9,330 | 19,100 | 41,200 | 1,700 | 36,500 | 8,650 | 55 | 860 |
| TOC | 2.0 | NR | NR | 3.9 | BMDL | 3.8 | BMDL | 5.3 | 2.1 | 48.1 | 8.3 | 4.9 |
| SO4 | 5.0 | BMDL | 443 | 1,230 | 5.1 | 867 | 743 | 504 | 1010 | 128 | 233 | 942 |

ALL RESULTS EXPRESSED IN PPM
UNLESS OTHERWISE SPECIFIED.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

a = ANALYZED IN DUPLICATE
b = ANALYZED IN TRIPLICATE
c = ANALYZED IN QUADRUPLICATE

DATE 2/8/89 BY D. Rick D...

227 French Landing Drive ● MetroCenter ● Nashville, TN 37228 ● Phone (615) 255-2288

AWARE INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY - SODIUM PLANT
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7335 | 7336 | 7337 | 7338 |
|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 11D | 1 DUP | 2 DUP | FB |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC |
| As (PPB) | 5.0 | BMDL | BMDL | BMDL | BMDL |
| Ba | 0.50 | 3.4 | BMDL | 5.8 | BMDL |
| Cd (PPB) | 1.0 | 7.9 | BMDL | BMDL | BMDL |
| Pb (PPB) | 10.0 | BMDL | BMDL | BMDL | BMDL |
| Hg (PPB) | 0.4 | BMDL | BMDL | BMDL | BMDL |
| Se (PPB) | 1.0 | BMDL | BMDL | BMDL | BMDL |
| Ag (PPB) | 30.0 | BMDL | BMDL | BMDL | BMDL |
| Cr (PPB) | 5.0 | 7.1 | 6.1 | 6.7 | BMDL |
| Ca | 1.0 | 697 | 462 | 613 | BMDL |
| Mg | 1.0 | 222 | 164 | 230 | BMDL |
| Na | 1.0 | 3880 | 190 | 4,530 | BMDL |
| K | 1.0 | 43.9 | 12.8 | 38.2 | BMDL |
| CO3 AS CaCO3 | 1.0 | ND | ND | ND | BMDL |
| HCO3 AS CaCO3 | 1.0 | 163 | 299 | 197 | BMDL |
| pH (UNITS) | ----- | 7.67 | 7.08 | 7.07 | 7.05 |
| CONDUCTIVITY (UMHOS/CM) | 10 | 25,000 | 3,900 | 26,000 | BMDL |
| TDS | 10 | 15,900 | 2,970 | 16,100 | 14 |
| Cl | 5.0 | 9,650 | 849 | 9,960 | BMDL |
| TOC | 2.0 | 6.8 | 6.1 | 6.0 | 4.5 |
| SO4 | 5.0 | 58 | 454 | BMDL | BMDL |

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UNLESS OTHERWISE SPECIFIED.

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BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

a = ANALYZED IN DUPLICATE
b = ANALYZED IN TRIPLICATE
c = ANALYZED IN QUADRUPLICATE

227 French Landing Drive ● MetroCenter ● Nashville, TN 37228 ● Phone (615) 255-2288

AWARE INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S* | 4D | 4S |
| PESTICIDE/PCB COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| ALDRIN | 0.05 | ND | ND | ND |
| ALPHA-BHC | 0.05 | ND | BMDL | ND |
| BETA-BHC | 0.05 | ND | ND | ND |
| DELTA-BHC | 0.05 | ND | ND | ND |
| CHLORDANE | 0.100 | ND | ND | ND |
| 4,4'-DDT | 0.10 | ND | ND | ND |
| 4,4'-DDE | 0.05 | ND | ND | ND |
| 4,4'-DDD | 0.05 | ND | ND | ND |
| DIELDRIN | 0.05 | ND | ND | ND |
| ALPHA-ENDOSULFAN | 0.05 | ND | ND | ND |
| BETA-ENDOSULFAN | 0.10 | ND | ND | ND |
| ENDOSULFAN SULFATE | 0.10 | ND | ND | ND |
| ENDRIN | 0.05 | ND | ND | ND |
| ENDRIN ALDEHYDE | 0.10 | ND | ND | ND |
| HEPTACHLOR | 0.05 | ND | ND | ND |
| HEPTACHLOR EPOXIDE | 0.05 | ND | ND | ND |
| PCB-1242 | 0.100 | ND | ND | ND |
| PCB-1254 | 0.100 | ND | ND | ND |
| PCB-1221 | 0.100 | ND | ND | ND |
| PCB-1232 | 0.100 | ND | ND | ND |
| PCB-1248 | 0.100 | ND | ND | ND |
| PCB-1260 | 0.100 | ND | ND | ND |
| PCB-1016 | 0.100 | ND | ND | ND |
| TOXAPHENE | 0.100 | ND | ND | ND |
| GAMMA-BHC | 0.05 | BMDL | BMDL | ND |

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ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
*DUE TO SAMPLE MATRIX DETECTION LIMIT INCREASED 100X.

227 French Landing Drive ● MetroCenter ● Nashville, TN 37228 ● Phone (615) 255-2288

AWARE
INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S | 4D | 4S |
| ACID EXTRACTABLES COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| 2-CHLOROPHENOL | 20 | ND | ND | ND |
| 2,4-DICHLOROPHENOL | 20 | ND | ND | ND |
| 2,4-DIMETHYLPHENOL | 20 | ND | ND | ND |
| 4,6-DINITRO-O-CRESOL | 20 | ND | ND | ND |
| 2,4-DINITROPHENOL | 20 | ND | ND | ND |
| 2-NITROPHENOL | 20 | ND | ND | ND |
| 4-NITROPHENOL | 20 | ND | ND | ND |
| P-CHLORO-M-CRESOL | 20 | ND | ND | ND |
| PENTACHLOROPHENOL | 20 | ND | ND | ND |
| PHENOL | 20 | ND | ND | ND |
| 2,4,6-TRICHLOROPHENOL | 20 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S | 4D | 4S |
| BASE NEUTRAL COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| ACENAPHTHENE | 10 | ND | ND | ND |
| ACENAPTHYLENE | 10 | ND | ND | ND |
| ANTHRACENE | 10 | ND | ND | ND |
| BENZIDINE | 10 | ND | ND | ND |
| BENZO (A) ANTHRACENE | 10 | ND | ND | ND |
| BENZO (A) PYRENE | 10 | ND | ND | ND |
| 3,4-BENZOFLUORANTHENE | 10 | ND | ND | ND |
| BENZO (GHI) PERYLENE | 10 | ND | ND | ND |
| BENZO (K) FLUORANTHENE | 10 | ND | ND | ND |
| BIS (2-CHLOROETHOXY) METHANE | 10 | ND | ND | ND |
| BIS (2-CHLOROETHYL) ETHER | 10 | ND | ND | ND |
| BIS (2-CHLOROISOPROPYL) ETHER | 10 | ND | ND | ND |
| BIS (2-ETHYLHEXYL) PHTHALATE | 10 | ND | ND | ND |
| 4-BROMOPHENYL PHENYL ETHER | 10 | ND | ND | ND |
| BUTYL BENZYL PHTHALATE | 10 | ND | ND | ND |
| 2-CHLORONAPHTHALENE | 10 | ND | ND | ND |
| 4-CHLOROPHENYL PHENYL ETHER | 10 | ND | ND | ND |
| CHRYSENE | 10 | ND | ND | ND |
| DIBENZO (A,H) ANTHRACENE | 10 | ND | ND | ND |
| 1,2-DICHLOROBENZENE | 10 | ND | ND | ND |
| 1,3-DICHLOROBENZENE | 10 | ND | ND | ND |
| 1,4-DICHLOROBENZENE | 10 | ND | ND | ND |
| 3,3-DICHLOROBENZIDINE | 10 | ND | ND | ND |
| DIETHYL PHTHALATE | 10 | ND | ND | ND |
| DIMETHYL PHTHALATE | 10 | ND | ND | ND |
| DI-N-BUTYL PHTHALATE | 10 | ND | ND | ND |
| 2,4-DINITROTOLUENE | 10 | ND | ND | ND |
| 2,6-DINITROTOLUENE | 10 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
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CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S | 4D | 4S |
| BASE NEUTRAL COMPOUNDS CONT'D | DETECTION LIMITS | CONC | CONC | CONC |
| DI-N-OCTYL PHTHALATE | 10 | ND | ND | ND |
| 1,2-DIPHENYLHYDRAZINE | 10 | ND | ND | ND |
| FLUORANTHENE | 10 | ND | ND | ND |
| FLUORENE | 10 | ND | ND | ND |
| HEXACHLOROBENZENE | 10 | ND | ND | ND |
| HEXACHLOROBUTADIENE | 10 | 83 | ND | ND |
| HEXACHLOROCYCLOPENTADIENE | 10 | ND | ND | ND |
| HEXACHLOROETHANE | 10 | 156 | ND | ND |
| INDENO (1,2,3-CD) PYRENE | 10 | ND | ND | ND |
| ISOPHORONE | 10 | ND | ND | ND |
| NAPHTHALENE | 10 | ND | ND | ND |
| NITROBENZENE | 10 | ND | ND | ND |
| N-NITROSODIMETHYLAMINE | 10 | ND | ND | ND |
| N-NITROSODI-N-PROPYLAMINE | 10 | ND | ND | ND |
| N-NITROSODIPHENYLAMINE | 10 | ND | ND | ND |
| PHENANTHRENE | 10 | ND | ND | ND |
| PYRENE | 10 | ND | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 10 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
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AWARE INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S* | 4D | 4S |
| VOLATILE ORGANIC COMPOUNDS ** | DETECTION LIMITS | CONC | CONC | CONC |
| ACROLEIN | ----- | ---- | ---- | ---- |
| ACRYLONITRILE | ----- | ---- | ---- | ---- |
| BENZENE | 10 | BMDL | ND | ND |
| BIS (CHLOROMETHYL) ETHER | 10 | BMDL | ND | ND |
| BROMOFORM | 10 | BMDL | ND | ND |
| CARBON TETRACHLORIDE | 10 | BMDL | ND | ND |
| CHLOROBENZENE | 10 | BMDL | ND | ND |
| CHLORODIBROMOMETHANE | 10 | BMDL | ND | ND |
| CHLOROETHANE | 10 | BMDL | ND | ND |
| 2-CHLOROETHYLVINYL ETHER | 10 | BMDL | ND | ND |
| CHLOROFORM | 10 | BMDL | ND | ND |
| DICHLOROBROMOMETHANE | 10 | BMDL | ND | ND |
| DICHLORODIFLUOROMETHANE | 10 | BMDL | ND | ND |
| 1,1-DICHLOROETHANE | 10 | BMDL | ND | ND |
| 1,2-DICHLOROETHANE | 10 | BMDL | ND | ND |
| 1,1-DICHLOROEHTYLENE | 10 | BMDL | ND | ND |
| 1,2-DICHLOROPROPANE | 10 | BMDL | ND | ND |
| 1,3-DICHLOROPROPYLENE's | 10 | BMDL | ND | ND |
| ETHYLBENZENE | 10 | BMDL | ND | ND |
| METHYL BROMIDE | 10 | BMDL | ND | ND |
| METHYL CHLORIDE | 10 | BMDL | ND | ND |
| METHYLENE CHLORIDE | 10 | BMDL | ND | ND |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 37,700 | ND | ND |
| TETRACHLOROETHYLENE | 10 | 46,300 | ND | ND |
| TOLUENE | 10 | BMDL | ND | ND |
| 1,2-TRANS-DICHLOROETHYLENE | 10 | BMDL | ND | ND |
| 1,1,1-TRICHLOROETHANE | 10 | BMDL | ND | ND |
| 1,1,2-TRICHLOROETHANE | 10 | BMDL | ND | ND |

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CLIENT: RMI COMPANY
DATE RECEIVED: 11/21/88

| AWARE SAMPLE DESCRIPTION | | 7322 | 7324 | 7325 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1S* | 4D | 4S |
| VOLATILE ORGANIC COMPOUNDS CONT'D ** | DETECTION LIMITS | CONC | CONC | CONC |
| TRICHLOROETHYLENE | 10 | 63,100 | ND | ND |
| TRICHLOROFLUOROMETHANE | 10 | BMDL | ND | ND |
| VINYL CHLORIDE | 10 | BMDL | ND | ND |
| 1,2-DICHLOROBENZENE | 10 | BMDL | ND | ND |
| 1,3-DICHLOROBENZENE | 10 | BMDL | ND | ND |
| 1,4-DICHLOROBENZENE | 10 | BMDL | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
*DUE TO SAMPLE MATRIX DETECTION LIMIT INCREASED 100X.
**SAMPLE EXCEEDED MAXIMUM HOLDING TIMES.

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 7323 |
|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 2S |
| PESTICIDE/PCB COMPOUNDS | DETECTION LIMITS | CONC |
| ALDRIN | 20 | ND |
| ALPHA-BHC | 10 | ND |
| BETA-BHC | 10 | 808 |
| DELTA-BHC | 10 | ND |
| CHLORDANE | 1000 | ND |
| 4,4'-DDT | 40 | ND |
| 4,4'-DDE | 20 | ND |
| 4,4'-DDD | 20 | ND |
| DIELDRIN | 20 | ND |
| ALPHA-ENDOSULFAN | 20 | ND |
| BETA-ENDOSULFAN | 40 | ND |
| ENDOSULFAN SULFATE | 40 | ND |
| ENDRIN | 20 | ND |
| ENDRIN ALDEHYDE | 40 | ND |
| HEPTACHLOR | 20 | ND |
| HEPTACHLOR EPOXIDE | 20 | ND |
| PCB-1242 | 1000 | ND |
| PCB-1254 | 1000 | ND |
| PCB-1221 | 1000 | ND |
| PCB-1232 | 1000 | ND |
| PCB-1248 | 1000 | ND |
| PCB-1260 | 1000 | ND |
| PCB-1016 | 1000 | ND |
| TOXAPHENE | 4000 | ND |
| GAMMA-BHC | 10 | 633 |

ALL RESULTS EXPRESSED IN MG/KG.

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 7323 |
|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 2S* |
| ACID EXTRACTABLES COMPOUNDS | DETECTION LIMITS | CONC |
| 2-CHLOROPHENOL | 4.0 | ND |
| 2,4-DICHLOROPHENOL | 4.0 | ND |
| 2,4-DIMETHYLPHENOL | 4.0 | ND |
| 4,6-DINITRO-O-CRESOL | 4.0 | ND |
| 2,4-DINITROPHENOL | 4.0 | ND |
| 2-NITROPHENOL | 4.0 | ND |
| 4-NITROPHENOL | 4.0 | ND |
| P-CHLORO-M-CRESOL | 4.0 | BMDL |
| PENTACHLOROPHENOL | 4.0 | ND |
| PHENOL | 4.0 | ND |
| 2,4,6-TRICHLOROPHENOL | 4.0 | ND |

ALL RESULTS EXPRESSED IN MG/KG.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

*DUE TO SAMPLE MATRIX, DETECTION LIMIT INCREASED 100X.

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | 7323 |
|---|---|
| CLIENT SAMPLE DESCRIPTION | 2S* |
| BASE NEUTRAL COMPOUNDS CONT'D | DETECTION LIMITS | CONC |
| DI-N-OCTYL PHTHALATE | 2.0 | ND |
| 1,2-DIPHENYLHYDRAZINE | 2.0 | ND |
| FLUORANTHENE | 2.0 | ND |
| FLUORENE | 2.0 | ND |
| HEXACHLOROBENZENE | 2.0 | 1900 |
| HEXACHLOROBUTADIENE | 2.0 | 3200 |
| HEXACHLOROCYCLOPENTADIENE | 2.0 | 761 |
| HEXACHLOROETHANE | 2.0 | 18,000 |
| INDENO (1,2,3-CD) PYRENE | 2.0 | ND |
| ISOPHORONE | 2.0 | ND |
| NAPHTHALENE | 2.0 | ND |
| NITROBENZENE | 2.0 | ND |
| N-NITROSODIMETHYLAMINE | 2.0 | ND |
| N-NITROSODI-N-PROPYLAMINE | 2.0 | ND |
| N-NITROSODIPHENYLAMINE | 2.0 | ND |
| PHENANTHRENE | 2.0 | ND |
| PYRENE | 2.0 | ND |
| 1,2,4-TRICHLOROBENZENE | 2.0 | ND |

ALL RESULTS EXPRESSED IN MG/KG.
ND = NONE DETECTED
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*DUE TO SAMPLE MATRIX, DETECTION LIMIT INCREASED 100X.

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 7323 |
|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 2S* |
| BASE NEUTRAL COMPOUNDS | DETECTION LIMITS | CONC |
| ACENAPHTHENE | 2.0 | ND |
| ACENAPTHYLENE | 2.0 | ND |
| ANTHRACENE | 2.0 | ND |
| BENZIDINE | 2.0 | ND |
| BENZO (A) ANTHRACENE | 2.0 | ND |
| BENZO (A) PYRENE | 2.0 | ND |
| 3,4-BENZOFLUORANTHENE | 2.0 | ND |
| BENZO (GHI) PERYLENE | 2.0 | ND |
| BENZO (K) FLUORANTHENE | 2.0 | ND |
| BIS (2-CHLOROETHOXY) METHANE | 2.0 | ND |
| BIS (2-CHLOROETHYL) ETHER | 2.0 | ND |
| BIS (2-CHLOROISOPROPYL) ETHER | 2.0 | ND |
| BIS (2-ETHYLHEXYL) PHTHALATE | 2.0 | ND |
| 4-BROMOPHENYL PHENYL ETHER | 2.0 | ND |
| BUTYL BENZYL PHTHALATE | 2.0 | ND |
| 2-CHLORONAPHTHALENE | 2.0 | ND |
| 4-CHLOROPHENYL PHENYL ETHER | 2.0 | ND |
| CHRYSENE | 2.0 | ND |
| DIBENZO (A,H) ANTHRACENE | 2.0 | ND |
| 1,2-DICHLOROBENZENE | 2.0 | 437 |
| 1,3-DICHLOROBENZENE | 2.0 | ND |
| 1,4-DICHLOROBENZENE | 2.0 | ND |
| 3,3-DICHLOROBENZIDINE | 2.0 | ND |
| DIETHYL PHTHALATE | 2.0 | ND |
| DIMETHYL PHTHALATE | 2.0 | ND |
| DI-N-BUTYL PHTHALATE | 2.0 | ND |
| 2,4-DINITROTOLUENE | 2.0 | ND |
| 2,6-DINITROTOLUENE | 2.0 | ND |

ALL RESULTS EXPRESSED IN MG/KG.

ND = NONE DETECTED

BMDL = BELOW METHOD DETECTION LIMIT

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 7323 |
|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 2S* |
| VOLATILE ORGANIC COMPOUNDS CONT'D** | DETECTION LIMITS | CONC |
| TRICHLOROETHYLENE | 1.0 | 23,000 |
| TRICHLOROFLUOROMETHANE | 1.0 | BMDL |
| VINYL CHLORIDE | 1.0 | BMDL |
| 1,2-DICHLOROBENZENE | 1.0 | 2100 |
| 1,3-DICHLOROBENZENE | 1.0 | BMDL |
| 1,4-DICHLOROBENZENE | 1.0 | BMDL |

ALL RESULTS EXPRESSED IN MG/KG.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
*DUE TO SAMPLE MATRIX, DETECTION LIMIT INCREASED 1000X.
**SAMPLE EXCEEDED MAXIMUM HOLDING TIME.

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | 7323 |
|---|---|
| CLIENT SAMPLE DESCRIPTION | 2S* |
| VOLATILE ORGANIC COMPOUNDS ** | DETECTION LIMITS | CONC |
| ACROLEIN | ----- | ---- |
| ACRYLONITRILE | ----- | ---- |
| BENZENE | 1.0 | BMDL |
| BIS (CHLOROMETHYL) ETHER | 1.0 | BMDL |
| BROMOFORM | 1.0 | BMDL |
| CARBON TETRACHLORIDE | 1.0 | BMDL |
| CHLOROBENZENE | 1.0 | BMDL |
| CHLORODIBROMOMETHANE | 1.0 | BMDL |
| CHLOROETHANE | 1.0 | BMDL |
| 2-CHLOROETHYLVINYL ETHER | 1.0 | BMDL |
| CHLOROFORM | 1.0 | BMDL |
| DICHLOROBROMOMETHANE | 1.0 | BMDL |
| DICHLORODIFLUOROMETHANE | 1.0 | BMDL |
| 1,1-DICHLOROETHANE | 1.0 | BMDL |
| 1,2-DICHLOROETHANE | 1.0 | BMDL |
| 1,1-DICHLOROEHTYLENE | 1.0 | BMDL |
| 1,2-DICHLOROPROPANE | 1.0 | BMDL |
| 1,3-DICHLOROPROPYLENE's | 1.0 | BMDL |
| ETHYLBENZENE | 1.0 | BMDL |
| METHYL BROMIDE | 1.0 | BMDL |
| METHYL CHLORIDE | 1.0 | BMDL |
| METHYLENE CHLORIDE | 1.0 | BMDL |
| 1,1,2,2-TETRACHLOROETHANE | 1.0 | 33,100 |
| TETRACHLOROETHYLENE | 1.0 | 16,400 |
| TOLUENE | 1.0 | BMDL |
| 1,2-TRANS-DICHLOROETHYLENE | 1.0 | BMDL |
| 1,1,1-TRICHLOROETHANE | 1.0 | BMDL |
| 1,1,2-TRICHLOROETHANE | 1.0 | BMDL |

ALL RESULTS EXPRESSED IN MG/KG.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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# AWARE INCORPORATED

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CLIENT: RMI - SODIUM PLANT
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3S | 4D | 4S | 5D | 5S | 6S | 7D | 7S | 8S | 9D | 9S |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| As (PPB) | 5.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | 9.0 | BMDL | BMDL | BMDL | BMDL |
| Ba | 0.50 | 1.2 | 6.8 | 0.83 | 5.6 | 0.61 | 1.1 | BMDL | BMDL | 0.83 | 1.4 | BMDL |
| Cd (PPB) | 1.0 | 1.4 | BMDL | 14.3a | 2.8 | 9.7 | 25.7b | BMDL | 3.0c | 6.9b | 6.3a | BMDL |
| Pb (PPB) | 10.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg (PPB) | 0.4 | BMDL | BMDL | BMDL | BMDL | BMDL | 0.4 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Se (PPB) | 1.0 | 1.1 | BMDL | BMDL | BMDL | BMDL | 2.4 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag (PPB) | 30.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr (PPB) | 5.0 | 9.7 | BMDL | 8.0 | 8.3a | 6.9 | BMDL | 8.1 | BMDLa | 13.0 | 13.5a | 13.6 |
| Ca | 1.0 | 5520 | 773 | 3160 | 812 | 5050 | 11,400 | 303 | 789 | 9270 | 1010 | 170 |
| Mg | 1.0 | 200 | 255 | 339 | 268 | 505 | 768 | 29.8 | 213 | 1030 | 360 | 82.6 |
| Na | 1.0 | 22,100 | 6580 | 3460 | 6480 | 7620 | 14,600 | 3180 | 433 | 10,600 | 8280 | 26.3 |
| K | 1.0 | 51.3 | 36.1 | 20.6 | 35.5 | 13.5 | 84.6 | 19.9 | 13.7 | 30.3 | 65.0 | 5.6 |
| CO3 AS CaCO3 | 1.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | IS | BMDL | BMDL | BMDL | BMDL |
| HCO3 AS CaCO3 | 1.0 | 192 | 241 | 224 | 203 | 385 | 160 | IS | 273 | 171 | 171 | 379 |
| pH (UNITS) | ------ | 7.08 | 6.94 | 7.12 | 7.00 | 7.10 | 7.04 | IS | 6.98 | 7.02 | 6.99 | 6.98 |
| CONDUCTIVITY (UMHOS/CM) | 10 | 100,000 | 25,200 | 26,500 | 25,200 | 43,000 | 118,000 | IS | 7000 | 90,000 | 30,000 | 1200 |
| TDS | 10 | 63,700 | 17,300 | 21,000 | 17,700 | 33,800 | 75,500 | IS | 5750 | 69,500 | 21,000 | 950 |
| Cl | 5.0 | 38,000 | 10,200 | 11,900 | 11,600 | 18,600 | 45,900 | IS | 1870 | 39,100 | 11,900 | 70 |
| TOC | 2.0 | 9.3 | 4.2 | 2.9 | 2.0 | 3.2 | BMDL | IS | 2.5 | BMDL | 58.3 | 8.7 |
| SO4 | 5.0 | 1630 | BMDL | 675 | BMDL | 1360 | 687 | IS | 875 | 909 | 161 | 297 |
| CYANIDE | 0.02 | 0.02 | BMDL | BMDL | NR | NR | NR | NR | NR | NR | NR | NR |

ALL RESULTS EXPRESSED IN PPM UNLESS SPECIFIED OTHERWISE.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED
IS = INSUFFICIENT SAMPLE

a = ANALYZED IN DUPLICATE
b = ANALYZED IN TRIPLICATE
c = ANALYZED IN QUADRUPLICATE

DATE 2/8/89 BY D. Rick Davis

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consultants in environmental management

CLIENT: RMI - SODIUM PLANT
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 228 | 229 | 230 | 231 | 232 |
|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 10S | 11D | DUP.1 | DUP.2 | FIELD BLANK |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC |
| As (PPB) | 5.0 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ba | 0.50 | BMDL | 18.0 | BMDL | BMDL | BMDL |
| Cd (PPB) | 1.0 | BMDL | 7.2a | 4.0 | 1.3 | BMDL |
| Pb (PPB) | 10.0 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg (PPB) | 0.4 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Se (PPB) | 1.0 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag (PPB) | 30.0 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr (PPB) | 5.0 | 8.4 | 11.6 | BMDL | BMDL | BMDL |
| Ca | 1.0 | 580 | 987 | 850 | 168 | BMDL |
| Mg | 1.0 | 190 | 353 | 218 | 78.0 | BMDL |
| Na | 1.0 | 241 | 8880 | 452 | 25.2 | BMDL |
| K | 1.0 | 8.6 | 55.2 | 15.2 | 5.4 | BMDL |
| CO3 AS CaCO3 | 1.0 | BMDL | BMDL | BMDL | BMDL | BMDL |
| HCO3 AS CaCO3 | 1.0 | 321 | 176 | 273 | 385 | BMDL |
| pH (UNITS) | ------ | 7.08 | 7.12 | 7.07 | 7.07 | 7.05 |
| CONDUCTIVITY (UMHOS/CM) | 10 | 3850 | 33,000 | 7000 | 1200 | BMDL |
| TDS | 10 | 3590 | 23,900 | 5700 | 932 | BMDL |
| Cl | 5.0 | 795 | 13,100 | 1870 | 72 | BMDL |
| TOC | 2.0 | 2.9 | BMDL | BMDL | BMDL | BMDL |
| SO4 | 5.0 | 900 | BMDL | 1090 | 289 | BMDL |
| CYANIDE | 0.02 | NR | NR | NR | NR | NR |

ALL RESULTS EXPRESSED IN PPM UNLESS SPECIFIED OTHERWISE.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED
IS = INSUFFICIENT SAMPLE

a = ANALYZED IN DUPLICATE
b = ANALYZED IN TRIPLICATE
c = ANALYZED IN QUADRUPLICATE

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AWARE INCORPORATED

consultants in environmental management

CLIENT: RMI COMPANY
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| PESTICIDE/PCB COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| ALDRIN | 0.02 | ND | ND | ND |
| ALPHA-BHC | 0.01 | BMDL | ND | ND |
| BETA-BHC | 0.02 | ND | ND | ND |
| DELTA-BHC | 0.02 | ND | ND | ND |
| CHLORDANE | 1.0 | ND | ND | ND |
| 4,4'-DDT | 0.04 | ND | ND | ND |
| 4,4'-DDE | 0.02 | ND | ND | ND |
| 4,4'-DDD | 0.02 | ND | ND | ND |
| DIELDRIN | 0.02 | ND | ND | ND |
| ALPHA-ENDOSULFAN | 0.02 | ND | ND | ND |
| BETA-ENDOSULFAN | 0.04 | ND | ND | ND |
| ENDOSULFAN SULFATE | 0.04 | ND | ND | ND |
| ENDRIN | 0.02 | ND | ND | ND |
| ENDRIN ALDEHYDE | 0.04 | ND | ND | ND |
| HEPTACHLOR | 0.02 | ND | ND | ND |
| HEPTACHLOR EPOXIDE | 0.02 | ND | ND | ND |
| PCB-1242 | 1.0 | ND | ND | ND |
| PCB-1254 | 1.0 | ND | ND | ND |
| PCB-1221 | 1.0 | ND | ND | ND |
| PCB-1232 | 1.0 | ND | ND | ND |
| PCB-1248 | 1.0 | ND | ND | ND |
| PCB-1260 | 1.0 | ND | ND | ND |
| PCB-1016 | 1.0 | ND | ND | ND |
| TOXAPHENE | 1.0 | ND | ND | ND |
| GAMMA-BHC | 0.01 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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AWARE INCORPORATED

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CLIENT: RMI COMPANY
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| ACID EXTRACTABLES COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| 2-CHLOROPHENOL | 20 | ND | ND | ND |
| 2,4-DICHLOROPHENOL | 20 | ND | ND | ND |
| 2,4-DIMETHYLPHENOL | 20 | ND | ND | ND |
| 4,6-DINITRO-O-CRESOL | 20 | ND | ND | ND |
| 2,4-DINITROPHENOL | 20 | ND | ND | ND |
| 2-NITROPHENOL | 20 | ND | ND | ND |
| 4-NITROPHENOL | 20 | ND | ND | ND |
| P-CHLORO-M-CRESOL | 20 | ND | ND | ND |
| PENTACHLOROPHENOL | 20 | ND | ND | ND |
| PHENOL | 20 | ND | ND | ND |
| 2,4,6-TRICHLOROPHENOL | 20 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
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CLIENT: RMI COMPANY
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| BASE NEUTRAL COMPOUNDS CONT'D | DETECTION LIMITS | CONC | CONC | CONC |
| DI-N-OCTYL PHTHALATE | 10 | ND | ND | ND |
| 1,2-DIPHENYLHYDRAZINE | 10 | ND | ND | ND |
| FLUORANTHENE | 10 | ND | ND | ND |
| FLUORENE | 10 | ND | ND | ND |
| HEXACHLOROBENZENE | 10 | ND | ND | ND |
| HEXACHLOROBUTADIENE | 10 | ND | ND | ND |
| HEXACHLOROCYCLOPENTADIENE | 10 | ND | ND | ND |
| HEXACHLOROETHANE | 10 | ND | ND | ND |
| INDENO (1,2,3-CD) PYRENE | 10 | ND | ND | ND |
| ISOPHORONE | 10 | ND | ND | ND |
| NAPHTHALENE | 10 | ND | ND | ND |
| NITROBENZENE | 10 | ND | ND | ND |
| N-NITROSODIMETHYLAMINE | 10 | ND | ND | ND |
| N-NITROSODI-N-PROPYLAMINE | 10 | ND | ND | ND |
| N-NITROSODIPHENYLAMINE | 10 | ND | ND | ND |
| PHENANTHRENE | 10 | ND | ND | ND |
| PYRENE | 10 | ND | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 10 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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CLIENT: RMI COMPANY
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| BASE NEUTRAL COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| ACENAPHTHENE | 10 | ND | ND | ND |
| ACENAPTHYLENE | 10 | ND | ND | ND |
| ANTHRACENE | 10 | ND | ND | ND |
| BENZIDINE | 50 | ND | ND | ND |
| BENZO (A) ANTHRACENE | 10 | ND | ND | ND |
| BENZO (A) PYRENE | 10 | ND | ND | ND |
| 3,4-BENZOFLUORANTHENE | 10 | ND | ND | ND |
| BENZO (GHI) PERYLENE | 10 | ND | ND | ND |
| BENZO (K) FLUORANTHENE | 10 | ND | ND | ND |
| BIS (2-CHLOROETHOXY) METHANE | 10 | ND | ND | ND |
| BIS (2-CHLOROETHYL) ETHER | 10 | ND | ND | ND |
| BIS (2-CHLOROISOPROPYL) ETHER | 10 | ND | ND | ND |
| BIS (2-ETHYLHEXYL) PHTHALATE | 10 | ND | BMDL | BMDL |
| 4-BROMOPHENYL PHENYL ETHER | 10 | ND | ND | ND |
| BUTYL BENZYL PHTHALATE | 10 | ND | ND | ND |
| 2-CHLORONAPHTHALENE | 10 | ND | ND | ND |
| 4-CHLOROPHENYL PHENYL ETHER | 10 | ND | ND | ND |
| CHRYSENE | 10 | ND | ND | ND |
| DIBENZO (A,H) ANTHRACENE | 10 | ND | ND | ND |
| 1,2-DICHLOROBENZENE | 10 | ND | ND | ND |
| 1,3-DICHLOROBENZENE | 10 | ND | ND | ND |
| 1,4-DICHLOROBENZENE | 10 | ND | ND | ND |
| 3,3-DICHLOROBENZIDINE | 50 | ND | ND | ND |
| DIETHYL PHTHALATE | 10 | ND | ND | ND |
| DIMETHYL PHTHALATE | 10 | ND | ND | ND |
| DI-N-BUTYL PHTHALATE | 10 | ND | ND | ND |
| 2,4-DINITROTOLUENE | 10 | ND | ND | ND |
| 2,6-DINITROTOLUENE | 10 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
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DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| VOLATILE ORGANIC COMPOUNDS | DETECTION LIMITS | CONC | CONC | CONC |
| ACROLEIN | 100 | ND | ND | ND |
| ACRYLONITRILE | 100 | ND | ND | ND |
| BENZENE | 1.0 | ND | ND | ND |
| BIS (CHLOROMETHYL) ETHER | 1.0 | ND | ND | ND |
| BROMOFORM | 1.0 | ND | ND | ND |
| CARBON TETRACHLORIDE | 1.0 | ND | ND | ND |
| CHLOROBENZENE | 1.0 | ND | ND | ND |
| CHLORODIBROMOMETHANE | 1.0 | ND | ND | ND |
| CHLOROETHANE | 1.0 | ND | ND | ND |
| 2-CHLOROETHYLVINYL ETHER | 1.0 | ND | ND | ND |
| CHLOROFORM | 1.0 | ND | ND | ND |
| DICHLOROBROMOMETHANE | 1.0 | ND | ND | ND |
| DICHLORODIFLUOROMETHANE | 1.0 | ND | ND | ND |
| 1,1-DICHLOROETHANE | 1.0 | ND | ND | ND |
| 1,2-DICHLOROETHANE | 1.0 | ND | ND | ND |
| 1,1-DICHLOROEHTYLENE | 1.0 | ND | ND | ND |
| 1,2-DICHLOROPROPANE | 1.0 | ND | ND | ND |
| 1,3-DICHLOROPROPYLENE's | 1.0 | ND | ND | ND |
| ETHYLBENZENE | 1.0 | ND | ND | ND |
| METHYL BROMIDE | 1.0 | ND | ND | ND |
| METHYL CHLORIDE | 1.0 | ND | ND | ND |
| METHYLENE CHLORIDE | 1.0 | ND | ND | ND |
| 1,1,2,2-TETRACHLOROETHANE | 1.0 | ND | ND | ND |
| TETRACHLOROETHYLENE | 1.0 | ND | ND | ND |
| TOLUENE | 1.0 | 2.1 | 11.6 | 3.9 |
| 1,2-TRANS-DICHLOROETHYLENE | 1.0 | ND | ND | ND |
| 1,1,1-TRICHLOROETHANE | 1.0 | ND | ND | ND |
| 1,1,2-TRICHLOROETHANE | 1.0 | ND | ND | ND |

ALL RESULTS EXPRESSED IN PPB.
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CLIENT: RMI COMPANY
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 217 | 218 | 219 |
|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3-S | 4-D | 4-S |
| VOLATILE ORGANIC COMPOUNDS CONT'D | DETECTION LIMITS | CONC | CONC | CONC |
| TRICHLOROETHYLENE | 1.0 | ND | ND | ND |
| TRICHLOROFLUOROMETHANE | 1.0 | ND | ND | ND |
| VINYL CHLORIDE | 1.0 | ND | ND | ND |
| 1,2-DICHLOROBENZENE | 1.0 | ND | ND | ND |
| 1,3-DICHLOROBENZENE | 1.0 | ND | ND | ND |
| 1,4-DICHLOROBENZENE | 1.0 | ND | ND | ND |
| TOTAL XYLENE | 1.0 | ND | 3.9 | ND |

ALL RESULTS EXPRESSED IN PPB.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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# SOILS DATA

AWARE INCORPORATED

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 6372 | 6373 | 6374 | 6375 | 6502 | 6503 | 6504 | 6505 | 6506 | 6507 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 2-S 17 | 2-S 24.5 | 2-S DUP. | 2-S 6 | 1S 9.5 | 1S 24.5 | DUP. #3 | 11D 1-2.5 | 11D 10.7-10.9 | 1S 15.1 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| TOTAL CYANIDE | 0.10 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| pH (UNITS) | NA | 7.5 | 7.8 | 7.4 | 7.3 | 7.0 | 8.0 | 7.9 | 5.4 | 7.8 | 7.6 |
| %SOLIDS | NA | 84.4 | 84.5 | 81.6 | 82.3 | 83.6 | 81.8 | 78.0 | 84.9 | 85.9 | 82.3 |
| Pb | 15.0 | BMDL | 16.9 | BMDL | 16.9 | 16.9 | BMDL | BMDL | 59.8 | BMDL | BMDL |
| Ba | 25.0 | 46.3 | 32.4 | 60.2 | 69.4 | 92.6 | 88.0 | 62.0 | 73.6 | 54.3 | 58.1 |
| Cd | 1.00 | BMDL | BMDL | BMDL | BMDL | 4.5 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ni | 5.0 | 14.2 | 19.3 | 12.6 | 19.3 | 19.3 | 24.3 | 22.6 | 12.6 | 15.9 | 20.9 |
| As** | 1.0 | 12.5 | 12.5 | 11.3 | 20.3 | 16.9 | 15.6 | 15.0 | 31.1 | 13.5 | 16.0 |
| Se | 0.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | 0.98 | BMDL | BMDL |
| Hg* | 0.20 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 11.4 | 15.8 | 12.3 | 17.5 | 19.3 | 18.4 | 18.3 | 14.0 | 19.2 | 18.3 |
| Sb | 20 | NR | NR | NR | BMDL | NR | NR | NR | NR | NR | BMDL |
| Tl | 20 | NR | NR | NR | BMDL | NR | NR | NR | NR | NR | BMDL |
| Be | 1.0 | NR | NR | NR | BMDL | NR | NR | NR | NR | NR | BMDL |
| Cu | 1.0 | NR | NR | NR | 22.2 | NR | NR | NR | NR | NR | 20.5 |
| Zn | 1.0 | NR | NR | NR | 60.5 | NR | NR | NR | NR | NR | 59.9 |

ALL RESULTS EXPRESSED IN MG/KG (PPM)

NA = NOT APPLICABLE
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 6245 | 6246 | 6247 | 6248 | 6249 | 6250 | 6251 | 6252 | 6253 | 6254 | 6255 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 3S 2.5 | 3S 14-14.5 | 6S 3.0 | 6S 13.3 | 7S 14.5 | 8S 0.7-2.0 | 8S 17.5 | 9S 10.0 | 10S 1.6-2.6 | 10S 9.7 | 10S 14.5-15 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| TOTAL CYANIDE | 0.10 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| pH (UNITS) | NA | 7.4 | 7.8 | 7.8 | 7.4 | 7.9 | 7.8 | 7.7 | 7.6 | 6.3 | 7.8 | 7.9 |
| %SOLIDS | NA | 82.1 | 83.0 | 85.4 | 87.7 | 86.4 | 71.0 | 83.6 | 86.1 | 77.3 | 87.2 | 85.8 |
| Pb | 15.0 | BMDL | BMDL | 59.8 | BMDL | BMDL | 59.8 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ba | 25.0 | 49.5 | 45.0 | 991 | 72.1 | 54.0 | 968 | 27.0 | 135 | 64.8 | 107 | 78.7 |
| Cd | 1.00 | BMDL | 9.3 | BMDL | BMDL | BMDL | 16.5 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ni | 5.0 | BMDL | 14.2 | 145 | 19.3 | 17.6 | 47.7 | BMDL | 31.0 | BMDL | 19.3 | 17.6 |
| As** | 1.0 | 2.6 | 16.2 | 15.6 | 20.4 | 18.3 | 20.0 | 14.8 | 17.6 | 17.5 | 18.4 | 20.0 |
| Se | 0.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg* | 0.20 | BMDL | 0.34 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | 1.70 | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 6.2 | 14.1 | 21.1 | 17.6 | 16.7 | 22.0 | 7.9 | 17.6 | 14.9 | 20.2 | 17.5 |
| Sb | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Tl | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Be | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Cu | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Zn | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

ALL RESULTS EXPRESSED IN MG/KG (PPM)

NA = NOT APPLICABLE
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 6141 | 6142 | 6143 | 6144 | 6145 | 6146 | 6147 | 6148 | 6149 | 6150 | 6151 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 4D 4.5 | 4D 21-21.5 | 4D 46.2-46.7 | 5D 6-6.5 | 5D 56.5-57 | 7D 8.5-9 | 7D 57.6-58.1 | 9D 4.8-5 | 9D 19-19.5 | 9D 56.5-57 | SB-14 1.5-1.7 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| TOTAL CYANIDE | 0.10 | BMDL | BMDL | BMDL | BMDL (1) | BMDL | BMDL | BMDL | 0.10 (1) | BMDL (1) | BMDL (1) | BMDL |
| pH (UNITS) | NA | 6.9 | 7.6 | 8.0 | 6.5 | 7.8 | 7.8 | 8.0 | 7.0 | 7.8 | 7.6 | 6.9 |
| %SOLIDS | NA | 80.7 | 80.5 | 90.4 | 79.6 | 89.7 | 84.5 | 87.8 | 83.9 | 86.9 | 84.2 | 90.0 |
| Pb | 15.0 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ba | 25.0 | 58.6 | 36.0 | 54.0 | 58.6 | 36.0 | 67.6 | BMDL | 63.1 | 67.6 | BMDL | 49.5 |
| Cd | 1.00 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ni | 5.0 | 15.9 | 15.9 | 25.9 | 29.3 | 25.9 | 20.9 | 27.6 | 25.9 | 24.3 | 29.3 | 17.6 |
| As** | 1.0 | 17.0 | 13.1 | 19.1 | 26.0 | 20.8 | 16.3 | 22.7 | 19.8 | 17.4 | 16.4 | 18.3 |
| Se | 0.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg* | 0.20 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 15.5 | 11.2 | 19.7 | 16.3 | 19.7 | 17.2 | 20.6 | 18.9 | 18.9 | 20.6 | 12.3 |
| Sb | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Tl | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Be | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Cu | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Zn | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

ALL RESULTS EXPRESSED IN MG/KG (PPM), WET.

NA = NOT APPLICABLE
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

(1) EXCEEDED USEPA RECOMMENDED HOLDING TIME.
* SAMPLES ANALYZED IN TRIPLICATE, THE AVERAGE CONCENTRATION REPORTED.
** SAMPLES ANALYZED IN DUPLICATE, THE AVERAGE CONCENTRATION REPORTED.

DATE 10/22/88 BY D. Rick Davis

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 6256 | 6257 | 6258 | 6259 | 6260 | 6261 | 6262 | 6263 | 6264 | 6265 | 6371 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | SB-11 1.4-1.8 | SB-11 7.5-8.0 | SB-11 29.5 | DUP-1 | SB-12 0.8-1.5 | SB-12 10.8-11.5 | SB-12 28.0 | SB-13 2.5-3.0 | SB-13 10.1-10.5 | SB-13 28.5 | 2-S 3.5-3.7 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| TOTAL CYANIDE | 0.10 | BMDL | BMDL | BMDL | BMDL | BMDL | 0.13 | 0.21 | 0.17 | BMDL | BMDL | BMDL |
| pH (UNITS) | NA | 5.0 | 7.9 | 8.0 | 7.7 | 6.9 | 7.8 | 7.8 | 6.8 | 7.8 | 7.9 | 7.3 |
| %SOLIDS | NA | 68.5 | 81.5 | 87.9 | 86.2 | 82.1 | 75.0 | 81.3 | 68.7 | 85.0 | 84.0 | 87.2 |
| Pb | 15.0 | BMDL | BMDL | 16.9 | 16.9 | BMDL | BMDL | BMDL | 16.9 | 16.9 | BMDL | 16.9 |
| Ba | 25.0 | 32.4 | 60.2 | 64.8 | 27.8 | 171 | 27.8 | 27.8 | 74.1 | 55.6 | BMDL | 92.6 |
| Cd | 1.00 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ni | 5.0 | BMDL | 10.9 | 25.9 | 14.2 | BMDL | 10.9 | 9.2 | 12.6 | 20.9 | 7.6 | 19.3 |
| As** | 1.0 | 22.2 | 18.3 | 16.7 | 18.9 | 16.8 | 23.4 | 17.1 | 23.5 | 16.4 | 12.9 | 18.0 |
| Se | 0.50 | 0.66 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | 1.08 | BMDL | BMDL | BMDL |
| Hg* | 0.20 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 8.8 | 13.2 | 21.0 | 17.5 | 6.1 | 12.3 | 9.7 | 14.0 | 17.5 | 9.7 | 19.3 |
| Sb | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Tl | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Be | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Cu | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Zn | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

ALL RESULTS EXPRESSED IN MG/KG (PPM)

NA = NOT APPLICABLE
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

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CLIENT: RMI COMPANY

| AWARE SAMPLE DESCRIPTION | | 6152 | 6153 | 6154 | 6155 | 6156 | 6157 | 6158 | 6159 | 6160 | 6161 | 6162 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | SB-14 8.5-9 | SB-14 29.5-30 | SB-16 0.5-3.0 | SB-16 29.5-30 | SB-15 0.5-1.3 | SB-15 10.5 | SB-15 29.5-30 | SB-17 1.6-3.3 | SB-17 17.3-18 | SB-17 29.5-30 | 8-S 6.5 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| TOTAL CYANIDE | 0.10 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| pH (UNITS) | NA | 7.6 | 7.8 | 7.6 | 8.0 | 5.3 | 7.6 | 7.9 | 7.5 | 6.7 | 7.8 | 7.4 |
| %SOLIDS | NA | 73.4 | 84.2 | 85.7 | 86.0 | 63.6 | 81.2 | 85.1 | 82.3 | 87.8 | 86.4 | 84.4 |
| Pb | 15.0 | 16.3 | BMDL | 195 | BMDL | BMDL | BMDL | BMDL | 315 | 27.2 | BMDL | BMDL |
| Ba | 25.0 | 54.1 | BMDL | 1940 | 45.0 | 31.5 | BMDL | 27.0 | 1280 | 297 | 81.1 | 72.1 |
| Cd | 1.00 | BMDL | BMDL | 173 | BMDL | 1.20 | BMDL | BMDL | 66.1 | 5.20 | BMDL | BMDL |
| Ni | 5.0 | 24.3 | 19.3 | 229 | 20.9 | BMDL | 12.6 | 17.6 | 193 | 17.6 | 20.9 | 22.6 |
| As** | 1.0 | 17.3 | 20.9 | 14.3 | 14.1 | 17.1 | 13.0 | 19.0 | 17.3 | 25.3 | 18.5 | 18.9 |
| Se | 0.50 | BMDL | BMDL | BMDL | BMDL | 1.22 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg* | 0.20 | BMDL | BMDL | 0.81 | BMDL | BMDL | BMDL | 0.29 | 0.52 | BMDL | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | 5.67 | BMDL | BMDL | BMDL | BMDL | 2.83 | BMDL | BMDL | BMDL |
| Cr | 2.50 | 18.5 | 15.0 | 42.3 | 16.7 | 7.9 | 11.5 | 15.0 | 41.4 | 15.9 | 15.9 | 16.7 |
| Sb | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | BMDL |
| Tl | 20 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | BMDL |
| Be | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | BMDL |
| Cu | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 24.6 |
| Zn | 1.0 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 70.0 |

ALL RESULTS EXPRESSED IN MG/KG (PPM)

NA = NOT APPLICABLE
BMDL = BELOW METHOD DETECTION LIMIT
NR = NOT REQUESTED

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AWARE INCORPORATED

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CLIENT: RMI - SODIUM

| AWARE SAMPLE DESCRIPTION | | 234 | 235 |
|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | | |
| | | SB-16 | SB-17 |
| SOILS | DETECTION LIMITS | CONC | CONC |
| E.P. TOX Pb | 0.30 | BMDL | BMDL |
| E.P. TOX Cd | 0.01 | 0.10 | 0.06 |

ALL RESULTS EXPRESSED IN MG/L.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

DATE 1/26/89 BY D. Rick Dai

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# AWARE INCORPORATED

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CLIENT: RMI COMPANY
DATE RECEIVED: 9/12/88

| AWARE SAMPLE DESCRIPTION | | 5401 | 5402 | 5403 | 5404 | 5405 | 5406 | 5407 | 5408 | 5409 | 5410 | 5411 | 5412 | 5413 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | SSB-1 | SSB-2 | SSB-3 | SSB-4 | SS1-1 | SS1-2 | SS1-3 | SS1-4 | SS2-1 | SS2-2 | SS2-3 | SS2-4 | SS3-1 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| Pb | 15.0 | 20.6 | 20.6 | 31.1 | 25.8 | BMDL | BMDL | 15.3 | BMDL | 83.4 | 15.3 | 209 | BMDL | 141 |
| Ba | 25.0 | 124 | 86.8 | 120 | 178 | 53.7 | 78.5 | 90.9 | 78.5 | 1240 | 382 | 155 | 603 | 1230 |
| Cd | 1.00 | BMDL | BMDL | 5.46 | BMDL | BMDL | BMDL | BMDL | BMDL | 26.4 | 2.59 | 1.24 | BMDL | 46.5 |
| pH (UNITS) | NA | 7.4 | 7.6 | 7.8 | 7.7 | 7.6 | 7.7 | 7.5 | 7.3 | 7.9 | 7.6 | 7.8 | 5.6 | 8.2 |
| Ni | 5.0 | 26.5 | 23.0 | 31.8 | 53.1 | 28.3 | 23.0 | 21.2 | 17.7 | 255 | 24.8 | 743 | 17.7 | 177 |
| As** | 1.0 | 16.1 | 14.7 | 17.0 | 11.5 | 16.4 | 15.2 | 12.6 | 14.1 | 23.4 | 21.6 | 18.9 | 23.0 | 13.6 |
| Se | 0.50 | BMDL | BMDL | 0.51 | 0.62 | BMDL | BMDL | BMDL | BMDL | 0.69 | 0.54 | 0.75 | 0.75 | BMDL |
| Hg* | 0.20 | BMDL | BMDL | BMDL | 0.23 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | 0.72 | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 16.9 | 15.2 | 17.8 | 16.9 | 13.5 | 15.2 | 15.2 | 15.2 | 22.9 | 12.7 | 34.7 | 9.3 | 18.6 |
| %SOLIDS | NA | 70.7 | 82.3 | 83.8 | 80.3 | 89.5 | 86.5 | 84.5 | 85.2 | 78.3 | 76.8 | 74.1 | 73.2 | 92.5 |

LL RESULTS EXPRESSED IN MG/KG (PPM)
S RECEIVED.

D = NONE DETECTED
MDL = BELOW METHOD DETECTION LIMIT

CONCENTRATIONS REPORTED ARE THE
VERAGE OF TRIPLICATE DETERMINATIONS.

*CONCENTRATIONS REPORTED ARE THE
VERAGE OF DUPLICATE DETERMINATIONS.

ATE: 11/15/88 BY: D. Rick Davis

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CLIENT: RMI COMPANY
DATE RECEIVED: 9/12/88

| AWARE SAMPLE DESCRIPTION | | 5414 | 5415 | 5416 | 5417 | 5418 | 5419 | 5420 | 5421 | 5422 | 5423 | 5424 | 5425 | 5426 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | SS3-2 | SS3-3 | SS3-4 | SS4-1 | SS4-2 | SS4-3 | SS4-4 | SS5-1 | SS5-2 | SS5-3 | SS5-4 | DUP-1 | DUP-2 |
| | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| Pb | 15.0 | 99.2 | 1140 | 41.5 | 62.5 | 93.9 | 152 | 41.5 | 33.7 | 31.1 | 25.8 | 25.8 | 172 | 25.8 |
| Ba | 25.0 | 2590 | 1880 | 593 | 474 | 353 | 211 | 233 | 132 | 101 | 105 | 140 | 224 | 92.1 |
| Cd | 1.00 | 18.2 | 731 | 1.35 | 3.41 | 3.82 | 2.59 | 2.59 | 15.9 | 8.33 | 5.05 | 3.00 | 5.05 | 4.64 |
| pH (UNITS) | NA | 7.9 | 8.0 | 8.2 | 8.5 | 8.4 | 7.8 | 8.2 | 7.6 | 7.6 | 7.8 | 7.5 | 8.0 | 7.7 |
| Ni | 5.0 | 442 | 558 | 28.3 | 40.7 | 47.8 | 117 | 37.2 | 32.8 | 28.3 | 33.6 | 24.8 | 69.0 | 33.6 |
| As** | 1.0 | 23.6 | 12.8 | 23.5 | 13.1 | 23.0 | 18.0 | 16.4 | 22.4 | 10.0 | 18.3 | 23.5 | 15.8 | 18.4 |
| Se | 0.50 | 0.72 | BMDL | 0.70 | BMDL | BMDL | BMDL | BMDL | 0.94 | 0.64 | BMDL | 0.84 | 0.72 | BMDL |
| Hg* | 0.20 | 1.29 | BMDL | BMDL | 0.27 | 0.33 | BMDL | BMDL | BMDL | BMDL | BMDL | 0.51 | BMDL | BMDL |
| Ag | 1.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Cr | 2.50 | 27.1 | 25.4 | 12.7 | 13.5 | 16.9 | 33.0 | 18.6 | 18.6 | 19.5 | 16.9 | 19.5 | 20.3 | 16.9 |
| %SOLIDS | NA | 66.7 | 78.9 | 72.2 | 89.6 | 86.0 | 87.7 | 88.8 | 90.0 | 88.0 | 89.9 | 88.4 | 84.2 | 89.7 |

ALL RESULTS EXPRESSED IN MG/KG (PPM)
AS RECEIVED.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

*CONCENTRATIONS REPORTED ARE THE
AVERAGE OF TRIPLICATE DETERMINATIONS.

**CONCENTRATIONS REPORTED ARE THE
AVERAGE OF DUPLICATE DETERMINATIONS.

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CLIENT: RMI COMPANY - SODIUM
DATE RECEIVED: 1/16/89

| AWARE SAMPLE DESCRIPTION | | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 |
|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | SSBG5 | SSBG6 | SSBG7 | SSBG8 | SSBG9 | SSBG10 | SSBG11 | SSBG12 |
| SOILS | DETECTION LIMITS | CONC | CONC | CONC | CONC | CONC | CONC | CONC | CONC |
| pH (UNITS) | ----- | 6.32 | 6.13 | 6.64 | 6.57 | 6.44 | 6.07 | 6.58 | 6.81 |
| Ba | 25.0 | 60.1 | 127 | 51.1 | 42.2 | 42.2 | 37.7 | 195 | 105 |
| Cd | 1.0 | BMDL | 41.6 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Pb | 15.0 | 60.5 | 16.6 | BMDL | BMDL | 16.6 | 36.1 | BMDL | 26.4 |
| Cr | 2.5 | 14.6 | 14.6 | 11.1 | 11.1 | 9.0 | 9.7 | 12.5 | 18.1 |
| Ni | 5.0 | 11.5 | 63.0 | 7.0 | 11.5 | BMDL | BMDL | 12.5 | 63.0 |
| Ag | 1.5 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| Hg | 0.20 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |
| As | 5.0 | 15.9 | 10.8 | 8.3 | 13.1 | 10.9 | BMDL | 8.8 | 12.0 |
| Se | 0.50 | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL | BMDL |

ALL RESULTS EXPRESSED IN MG/KG
UNLESS OTHERWISE SPECIFIED.

ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

DATE 2/23/89 BY D. Rick Dunn

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CLIENT: RMI COMPANY
DATE RECEIVED: 10/27/88

| AWARE SAMPLE DESCRIPTION | | 6507 |
|---|---|---|
| CLIENT SAMPLE DESCRIPTION | | 1-S 15.1' |
| BASE NEUTRAL COMPOUNDS CONT'D | DETECTION LIMITS | CONC |
| DI-N-OCTYL PHTHALATE | 5.0 | ND |
| 1,2-DIPHENYLHYDRAZINE | 5.0 | ND |
| FLUORANTHENE | 5.0 | ND |
| FLUORENE | 5.0 | ND |
| HEXACHLOROBENZENE | 5.0 | ND |
| HEXACHLOROBUTADIENE | 5.0 | ND |
| HEXACHLOROCYCLOPENTADIENE | 5.0 | ND |
| HEXACHLOROETHANE | 5.0 | ND |
| INDENO (1,2,3-CD) PYRENE | 5.0 | ND |
| ISOPHORONE | 5.0 | ND |
| NAPHTHALENE | 5.0 | ND |
| NITROBENZENE | 5.0 | ND |
| N-NITROSODIMETHYLAMINE | 5.0 | ND |
| N-NITROSODI-N-PROPYLAMINE | 5.0 | ND |
| N-NITROSODIPHENYLAMINE | 5.0 | ND |
| PHENANTHRENE | 5.0 | ND |
| PYRENE | 5.0 | ND |
| 1,2,4-TRICHLOROBENZENE | 5.0 | ND |

ALL RESULTS EXPRESSED IN MG/KG.
ND = NONE DETECTED
BMDL = BELOW METHOD DETECTION LIMIT

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