SPARTON

SPARTON TECHNOLOGY

File
Rcd/ST/93

1993 OCT
RECEIVED
HAZARDOUS WASTE
PROGRAM

October 26, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Steven M. Alexander
RCRA Technical Compliance Program Manager
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
New Mexico Environment Department
P.O. Box 26110
525 Camino de los Marquez
Santa Fe, New Mexico 87502

Dear Mr. Alexander:

Enclosed is Sparton Technology's Inc. Assessment Quarterly Report for the 40th Quarter, 3rd Quarter 1993 as required by the Alternate Ground Water Monitoring Program. Included in the report are copies of the lab data sheets. Ground water samples were collected by Sparton Technology, Inc. at the Coors Road Facility on July 27 and 29, 1993.

If you have any questions please contact John Wakefield or myself at (505) 892-5300. Thank you for your attention to this matter.

Sincerely,
SPARTON TECHNOLOGY, INC.

Richard D. Mico
Vice President and General Manager

Enclosure:

cc: Mr. J. Appel
Mr. P. Chandler
Mr. G. Richardson
Mr. J. Wakefield

006093

Sparton Technology, Inc. □ 4901 Rockaway Blvd., SE □ Rio Rancho, NM 87124-4469 □ (505) 892-5300 □ FAX (505) 892-5515

mw-61, 60, 36, 44, 32, 41, 15
for m9240 + 13 PP metals
and State well mw-15 for
CME parameters + Annual Param

Analytical **Technologies,** Inc.

2709-D Pan American Freeway NE Albuquerque NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **307360**

August 19, 1993

Sparton Technology, Inc.
4901 Rockaway Blvd., SE
Rio Rancho, NM 87124-4469

Project Name/Number: CRFGW MON 3QNMED CME

Attention: John Wakefield

On **07/27/93**, Analytical Technologies, Inc. received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

D indicates the compound was analyzed at a greater dilution.

Total Organic Halide and Total Organic Carbon analyses were performed by ATI, Fort Collins.

All other analyses were performed by ATI, Phoenix.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Adela M. Cantu
Senior Organic Chemist

Letitia Krakowski
Acting Laboratory Manager

LAK:jd

Enclosure

006094

Analytical Technologies, Inc.

ACCESSION #: 307360

| PARAMETER | METHOD | DATE ANALYZED | ANALYST |
|---|---|---|---|
| Chloride | 325.2 | 07/29/93 | C. Warren |
| Electrical Conductivity | 120.1 | 07/29/93 | M. Jarman |
| Nitrate | 353.2 | 07/28/93 | M. Rivera |
| pH | 150.1 | 08/04/93 | T. Kehler |
| Sulfate | 375.2 | 07/29/93 | C. Warren |
| Total Kjeldahl Nitrogen | 351.2 | 08/11/93 | N. Milan |
| Silver | 200.7 | 08/04/93 | J. Hrubant |
| Arsenic | 206.2 | 07/30/93 | K. Jagger |
| Boron | 200.7 | 07/30/93 | J. Hrubant |
| Beryllium | 200.7 | 08/04/93 | J. Hrubant |
| Cadmium | 213.2 | 08/02/93 | K. Jagger |
| Chromium, Total | 200.7 | 08/04/93 | J. Hrubant |
| Chromium, Hexavalent | 7196 | 07/28/93 | V. Nielsen |
| Copper | 200.7 | 08/04/93 | J. Hrubant |
| Mercury | 245.1 | 07/30/93 | P. Van Cooney |
| Manganese | 200.7 | 08/04/93 | J. Hrubant |
| Sodium | 200.7 | 07/30/93 | J. Hrubant |
| Nickel | 200.7 | 08/04/93 | J. Hrubant |
| Lead | 239.2 | 07/29/93 | K. Jagger |
| Antimony | 200.7 | 08/04/93 | J. Hrubant |
| Selenium | 270.2 | 08/02/93 | M. Wilson |
| Thallium | 279.2 | 08/03/93 | K. Jagger |
| Zinc | 200.7 | 08/04/93 | J. Hrubant |
| Volatile Organics (1) | 8240 | 08/08/93 | M. Bergenheier |
| Volatile Organics (2-6) | 8240 | 08/07/93 | M. Bergenheier |
| Volatile Organics (7) | 8240 | 08/09/93 | M. Bergenheier |
| Total Organic Carbon | 415.2 | 08/06/93 | S. Hall |
| Total Organic Halide | 9020M | 08/03/93 | S. Hall |

Reference(s): Methods for Chemical Analysis of Water and Wastes, March, 1983 EPA-600 4-79-020.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, (SW 846, 3rd ed.)

Analytical Technologies, Inc.

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON

DATE RECEIVED : 07/27/93
REPORT DATE : 08/19/93

ATI I.D. : 307360

| ATI # | CLIENT DESCRIPTION | MATRIX | DATE COLLECTED |
|---|---|---|---|
| 01 | MW-61 | AQUEOUS | 07/27/93 |
| 02 | MW-60 | AQUEOUS | 07/27/93 |
| 03 | MW-36 | AQUEOUS | 07/27/93 |
| 04 | MW-44 | AQUEOUS | 07/27/93 |
| 05 | MW-32 | AQUEOUS | 07/27/93 |
| 06 | MW-41 | AQUEOUS | 07/27/93 |
| 07 | MW-15 | AQUEOUS | 07/27/93 |

----- TOTALS -----

| MATRIX | # SAMPLES |
|---|---|
| AQUEOUS | 7 |

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

ATI I.D. : 307360

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON

DATE RECEIVED : 07/27/93
REPORT DATE : 08/19/93

| PARAMETER | UNITS | 07 |
|---|---|---|
| CHLORIDE (EPA 325.2) | MG/L | 29 |
| CHROMIUM HEXAVALENT EPA 7196 | MG/L | <0.02 |
| CONDUCTIVITY, (UMHOS/CM) | | 650 |
| NITRATE AS N (EPA 353.2) | MG/L | 4.3 |
| PH (EPA 150.1) | UNITS | 8.0 |
| SULFATE (EPA 375.2) | MG/L | 89 |
| KJELDAHL NITROGEN (351.2) | MG/L | <0.2 |
| TOTAL ORGANIC CARBON | MG/L | 1 |
| TOTAL ORGANIC HALIDE | UG/L | 70 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON ATI I.D. : 307360

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| CHLORIDE | MG/L | 30792601 | 150 | 150 | 0 | 310 | 150 | 107 |
| CHROMIUM HEXAVALENT | MG/L | 30736007 | <0.02 | <0.02 | NA | 0.16 | 0.15 | 107 |
| CONDUCTIVITY(UMHOS/CM) | | 30796911 | 4210 | 4230 | 0.5 | NA | NA | NA |
| NITRATE AS NITROGEN | MG/L | 30793601 | 0.06 | 0.06 | 0 | 2.09 | 2.00 | 102 |
| PH | UNITS | 30796701 | 8.6 | 8.6 | 0 | NA | NA | NA |
| SULFATE | MG/L | 30792601 | 50 | 51 | 2 | 100 | 50 | 100 |
| TOTAL KJELDAHL NITROGE | MG/L | 30736201 | <0.2 | <0.2 | NA | 1.9 | 2.0 | 95 |
| TOTAL ORGANIC CARBON | MG/L | 30736007 | 1 | 1 | 0 | NA | NA | NA |
| TOTAL ORGANIC HALIDE | UG/L | 930717102 | 790 | NA | NA | 4900 | 4000 | 103 |

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

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

Analytical Technologies, Inc.

# METALS RESULTS

ATI I.D. : 307360

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON

DATE RECEIVED : 07/27/93
REPORT DATE : 08/19/93

| PARAMETER | UNITS | 06 | 07 |
|---|---|---|---|
| SILVER (EPA 200.7/6010) | MG/L | <0.010 | <0.010 |
| ARSENIC (EPA 206.2/7060) | MG/L | <0.005 | 0.008 |
| BORON (EPA 200.7/6010) | MG/L | - | 0.13 |
| BERYLLIUM (EPA 200.7/6010) | MG/L | <0.005 | <0.005 |
| CADMIUM (EPA 213.2/7131) | MG/L | <0.0005 | <0.0005 |
| CHROMIUM (EPA 200.7/6010) | MG/L | <0.010 | <0.010 |
| TRIVALENT CHROMIUM (EPA 7196 | MG/L | - | <0.02 |
| COPPER (EPA 200.7/6010) | MG/L | <0.010 | <0.010 |
| MERCURY (EPA 245.1/7470) | MG/L | <0.0002 | <0.0002 |
| MANGANESE (EPA 200.7/6010) | MG/L | - | <0.010 |
| SODIUM (EPA 200.7/6010) | MG/L | - | 51.1 |
| NICKEL (EPA 200.7/6010) | MG/L | <0.020 | <0.020 |
| LEAD (EPA 239.2/7421) | MG/L | 0.003 | <0.002 |
| ANTIMONY (EPA 200.7/6010) | MG/L | <0.05 | <0.05 |
| SELENIUM (EPA 270.2/7740) | MG/L | <0.005 | <0.005 |
| THALLIUM (EPA 279.2/7841) | MG/L | <0.005 | <0.005 |
| ZINC (EPA 200.7/6010) | MG/L | <0.020 | <0.020 |

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON ATI I.D. : 307360

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| SILVER | MG/L | 30736002 | <0.010 | <0.010 | NA | 0.462 | 0.500 | 92 |
| SILVER | MG/L | 30736005 | <0.010 | <0.010 | NA | 0.460 | 0.500 | 92 |
| ARSENIC | MG/L | 30736004 | <0.005 | <0.005 | NA | 0.058 | 0.050 | 116 |
| ARSENIC | MG/L | 30736007 | 0.008 | 0.009 | 12 | 0.061 | 0.050 | 106 |
| BORON | MG/L | 30791301 | <0.10 | <0.10 | NA | 1.02 | 1.00 | 102 |
| BERYLLIUM | MG/L | 30736002 | <0.005 | <0.005 | NA | 0.464 | 0.500 | 93 |
| BERYLLIUM | MG/L | 30736005 | <0.005 | <0.005 | NA | 0.461 | 0.500 | 92 |
| CADMIUM | MG/L | 30736004 | <0.0005 | <0.0005 | NA | 0.0055 | 0.0050 | 110 |
| CADMIUM | MG/L | 30736007 | <0.0005 | <0.0005 | NA | 0.0050 | 0.0050 | 100 |
| CHROMIUM | MG/L | 30736002 | <0.010 | <0.010 | NA | 0.989 | 1.00 | 99 |
| CHROMIUM | MG/L | 30736005 | <0.010 | <0.010 | NA | 0.985 | 1.00 | 98 |
| COPPER | MG/L | 30736002 | 0.012 | <0.010 | NA | 0.478 | 0.500 | 93 |
| COPPER | MG/L | 30736005 | <0.010 | <0.010 | NA | 0.480 | 0.500 | 96 |
| MERCURY | MG/L | 30735901 | <0.0002 | <0.0002 | NA | 0.0052 | 0.0050 | 104 |
| MERCURY | MG/L | 30736003 | <0.0002 | <0.0002 | NA | 0.0049 | 0.0050 | 98 |
| MANGANESE | MG/L | 30849902 | 2.13 | 2.15 | 0.9 | 3.09 | 1.00 | 96 |
| SODIUM | MG/L | 30791301 | 23.7 | 23.7 | 0 | 75.3 | 50.0 | 103 |
| NICKEL | MG/L | 30736002 | <0.020 | <0.020 | NA | 0.970 | 1.00 | 97 |
| NICKEL | MG/L | 30736005 | 0.038 | 0.033 | 14 | 1.01 | 1.00 | 97 |
| LEAD | MG/L | 30736004 | <0.002 | <0.002 | NA | 0.051 | 0.050 | 102 |
| LEAD | MG/L | 30736007 | <0.002 | <0.002 | NA | 0.051 | 0.050 | 102 |
| ANTIMONY | MG/L | 30736002 | <0.05 | <0.05 | NA | 1.02 | 1.00 | 102 |
| ANTIMONY | MG/L | 30736005 | <0.05 | <0.05 | NA | 1.01 | 1.00 | 101 |
| SELENIUM | MG/L | 30736004 | <0.005 | <0.005 | NA | 0.048 | 0.050 | 96 |
| SELENIUM | MG/L | 30736007 | <0.005 | <0.005 | NA | 0.049 | 0.050 | 98 |
| THALLIUM | MG/L | 30736004 | <0.005 | <0.005 | NA | 0.052 | 0.050 | 104 |
| THALLIUM | MG/L | 30736007 | <0.005 | <0.005 | NA | 0.054 | 0.050 | 108 |
| ZINC | MG/L | 30736002 | <0.020 | <0.020 | NA | 0.506 | 0.500 | 101 |
| ZINC | MG/L | 30736005 | <0.020 | <0.020 | NA | 0.500 | 0.500 | 100 |

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

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

Analytical Technologies, Inc.

# GCMS - RESULTS

ATI I.D. : 30736007

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/27/93 |
| PROJECT # | : 3Q NMED CME | DATE RECEIVED | : 07/27/93 |
| PROJECT NAME | : CRFGW MON | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-15 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | 3 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | 23 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | 56 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | 1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

006101

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 92 |
| BROMOFLUOROBENZENE (%) | 98 |
| TOLUENE-D8 (%) | 100 |

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736007

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

# GCMS - RESULTS

## REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | ATI I.D. | : 307360 |
| PROJECT # | : 3Q NMED CME | DATE ANALYZED | : 08/07/93 |
| PROJECT NAME | : CRFGW MON | UNITS | : UG/L |
| CLIENT I.D. | : REAGENT BLANK | DILUTION FACTOR | : N/A |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

## SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 94 |
| BROMOFLUOROBENZENE (%) | 92 |
| TOLUENE-D8 (%) | 98 |

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Analytical Technologies, Inc.

# GCMS - RESULTS

## REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| | | ATI I.D. | : 307360 |
| CLIENT | : SPARTON TECH., INC. | | |
| PROJECT # | : 3Q NMED CME | DATE ANALYZED | : 08/08/93 |
| PROJECT NAME | : CRFGW MON | UNITS | : UG/L |
| CLIENT I.D. | : REAGENT BLANK | DILUTION FACTOR | : N/A |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

### SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 88 |
| BROMOFLUOROBENZENE (%) | 100 |
| TOLUENE-D8 (%) | 99 |

Analytical Technologies, Inc.

# GCMS - RESULTS

## REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | ATI I.D. | : 307360 |
| PROJECT # | : 3Q NMED CME | DATE ANALYZED | : 08/09/93 |
| PROJECT NAME | : CRFGW MON | UNITS | : UG/L |
| CLIENT I.D. | : REAGENT BLANK | DILUTION FACTOR | : N/A |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 90 |
| BROMOFLUOROBENZENE (%) | 96 |
| TOLUENE-D8 (%) | 99 |

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 307360

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q NMED CME
PROJECT NAME : CRFGW MON
REF I.D. : 30736007

DATE ANALYZED : 08/09/93
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

| COMPOUNDS | SAMPLE RESULT | CONC. SPIKED | SPIKED SAMPLE | % REC. | DUP. SPIKED SAMPLE | DUP. % REC. | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | 3 | 50 | 55 | 104 | 51 | 96 | 8 |
| TRICHLOROETHENE | 56 | 50 | 106 | 100 | 101 | 90 | 5 |
| CHLOROBENZENE | <1 | 50 | 48 | 96 | 49 | 98 | 2 |
| TOLUENE | <1 | 50 | 50 | 100 | 51 | 102 | 2 |
| BENZENE | <1 | 50 | 51 | 102 | 51 | 102 | 0 |

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

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

MW-19, 20, 7, 19, 21, 14, 22, TG
for Annual Parameters

Analytical Technologies, Inc.

2709-D Pan American Freeway NE Albuquerque NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **307367**

August 20, 1993

Sparton Technology, Inc.
4901 Rockaway Blvd., SE
Rio Rancho, NM 87124-4469

Project Name/Number: CRFGWM 3Q93SW

Attention: John Wakefield

On **07/29/93**, Analytical Technologies, Inc. received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

D indicates the compound was analyzed at a greater dilution.

Samples MW-19 and MW-20 were received at ATI past EPA holding time for Hexavalent Chromium.

Hexavalent Chromium result is greater than the Total Chromium result. Redigestion and re-analysis confirmed the original results for Total Chromium.

Total Organic Halide and Total Organic Carbon analyses were performed by ATI, Fort Collins.

All other analyses were performed by ATI, Phoenix.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Adela M. Cantu
Senior Organic Chemist

Letitia Krakowski
Acting Laboratory Manager

LAK:jd

Enclosure

Analytical Technologies, Inc.

ACCESSION #: 307367

| PARAMETER | METHOD | DATE ANALYZED | ANALYST |
|---|---|---|---|
| Chloride | 325.2 | 08/09/93 | M. Rivera |
| Electrical Conductivity | 120.1 | 07/30/93 | M. Jarman |
| Nitrate | 353.2 | 08/10/93 | M. Rivera |
| pH | 150.1 | 08/11/93 | T. Kehler |
| Sulfate | 375.2 | 08/03/93 | C. Warren |
| Total Kjeldahl Nitrogen | 351.2 | 08/11/93 | N. Milan |
| Boron | 200.7 | 08/10/93 | W. Flanery |
| Chromium, Hexavalent | 7196 | 07/30/93 | T. Wardell |
| Chromium, Trivalent | 200.7 | 08/10/93 | J. Hrubant |
| Manganese | 200.7 | 08/10/93 | J. Hrubant |
| Sodium | 200.7 | 08/10/93 | W. Flanery |
| Nickel | 200.7 | 08/10/93 | J. Hrubant |
| Volatile Organics | 8240 | 08/09/93 | C. Laurie |
| Total Organic Carbon | 415.2 | 08/06/93 | S. Hall |
| Total Organic Halide | 9020M | 08/03/93 | S. Hall |

Reference(s): Methods for Chemical Analysis of Water and Wastes, March, 1983 EPA-600 4-79-020.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, (SW 846, 3rd ed.)

Analytical Technologies, Inc.

CLIENT : SPARTON TECH., INC. DATE RECEIVED : 07/29/93
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM REPORT DATE : 08/20/93

ATI I.D. : 307367

| ATI # | CLIENT DESCRIPTION | MATRIX | DATE COLLECTED |
|---|---|---|---|
| 01 | MW-19 | AQUEOUS | 07/29/93 |
| 02 | MW-20 | AQUEOUS | 07/29/93 |
| 03 | MW-9 | AQUEOUS | 07/29/93 |
| 04 | MW-14 | AQUEOUS | 07/29/93 |
| 05 | MW-21 | AQUEOUS | 07/29/93 |
| 06 | MW-16 | AQUEOUS | 07/29/93 |
| 07 | MW-22 | AQUEOUS | 07/29/93 |
| 08 | FIELD BLANK | AQUEOUS | 07/29/93 |
| 09 | TRIP BLANK | AQUEOUS | 07/29/93 |

----- TOTALS -----

| MATRIX | # SAMPLES |
|---|---|
| AQUEOUS | 9 |

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

ATI I.D. : 307367

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM

DATE RECEIVED : 07/29/93
REPORT DATE : 08/20/93

| PARAMETER | UNITS | 01 | 02 | 03 | 04 | 05 |
|---|---|---|---|---|---|---|
| CHLORIDE (EPA 325.2) | MG/L | 24 | 24 | 21 | 40 | 23 |
| CHROMIUM HEXAVALENT EPA 7196 | MG/L | <0.02 | <0.02 | <0.02 | 0.66 | <0.02 |
| CONDUCTIVITY, (UMHOS/CM) | | 688 | 621 | 908 | 759 | 662 |
| NITRATE AS N (EPA 353.2) | MG/L | 3.8 | 1.10 | 21.5 | 22.3 | 3.4 |
| PH (EPA 150.1) | UNITS | 7.9 | 8.1 | 7.8 | 8.0 | 8.0 |
| SULFATE (EPA 375.2) | MG/L | 110 | 81 | 190 | 170 | 100 |
| KJELDAHL NITROGEN (351.2) | MG/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TOTAL ORGANIC CARBON(415.2) | MG/L | <1.0 | 2 | 3 | 1 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | UG/L | 90 | < 20 | 650 | 630 | 420 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

ATI I.D. : 307367

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM

DATE RECEIVED : 07/29/93
REPORT DATE : 08/20/93

| PARAMETER | UNITS | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|
| CHLORIDE (EPA 325.2) | MG/L | 120 | 22 | <0.5 | <0.5 |
| CHROMIUM HEXAVALENT EPA 7196 | MG/L | 0.28 | <0.02 | <0.02 | <0.02 |
| CONDUCTIVITY, (UMHOS/CM) | | 1470 | 693 | 1.21 | 1.21 |
| NITRATE AS N (EPA 353.2) | MG/L | 6.1 | 5.7 | <0.06 | <0.06 |
| PH (EPA 150.1) | UNITS | 7.7 | 7.9 | 5.7 | 5.7 |
| SULFATE (EPA 375.2) | MG/L | 230 | 83 | <0.3 | <0.3 |
| KJELDAHL NITROGEN (351.2) | MG/L | 91 | 0.4 | <0.2 | <0.2 |
| TOTAL ORGANIC CARBON (415.2) | MG/L | 3 | <1.0 | <1.0 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | UG/l | 13000 | 100 | <20 | <20 |

Analytical Technologies, Inc. GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM ATI I.D. : 307367

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| CHLORIDE | MG/L | 30703011 | <0.5 | <0.5 | NA | 9.8 | 10.0 | 98 |
| CHLORIDE | MG/L | 30851401 | 740 | 740 | 0 | 1200 | 500 | 92 |
| CHROMIUM HEXAVALENT | MG/L | 30736701 | <0.02 | <0.02 | NA | 0.15 | 0.15 | 100 |
| CONDUCTIVITY(UMHOS/CM) | | 30736701 | 688 | 652 | 5 | NA | NA | NA |
| CONDUCTIVITY(UMHOS/CM) | | 30736709 | 1.21 | 1.07 | 12 | NA | NA | NA |
| NITRATE AS NITROGEN | MG/L | 30736701 | 3.8 | 3.8 | 0 | 7.8 | 4.0 | 100 |
| NITRATE AS NITROGEN | MG/L | 30736709 | <0.06 | <0.06 | NA | 1.98 | 2.00 | 99 |
| PH | UNITS | 30736701 | 7.9 | 8.0 | 1 | NA | NA | NA |
| SULFATE | MG/L | 30736706 | 230 | 230 | 0 | 460 | 230 | 100 |
| TOTAL KJELDAHL NITROGE | MG/L | 30736708 | <0.2 | <0.2 | NA | 2.0 | 2.0 | 100 |
| TOTAL ORGANIC CARBON | MG/L | 30736701 | <1.0 | <1.0 | NA | NA | NA | NA |
| TOTAL ORGANIC HALIDE | UG/L | 930717102 | 790 | NA | NA | 4900 | 4000 | 103 |

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

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 10$$

Analytical Technologies, Inc.

# METALS RESULTS

ATI I.D. : 307367

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM

DATE RECEIVED : 07/29/9
REPORT DATE : 08/20/9

| PARAMETER | UNITS | 01 | 02 | 03 | 04 | 05 |
|---|---|---|---|---|---|---|
| BORON (EPA 200.7/6010) | MG/L | 0.15 | 0.12 | 0.92 | 1.53 | 0.13 |
| TRIVALENT CHROMIUM (EPA 7196 | MG/L | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| MANGANESE (EPA 200.7/6010) | MG/L | 0.018 | 0.807 | 0.144 | <0.010 | <0.010 |
| SODIUM (EPA 200.7/6010) | MG/L | 58.0 | 50.0 | 81.8 | 65.1 | 50.5 |
| NICKEL (EPA 200.7/6010) | MG/L | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |

Analytical Technologies, Inc.

# METALS RESULTS

ATI I.D. : 307367

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM

DATE RECEIVED : 07/29/93
REPORT DATE : 08/20/93

| PARAMETER | UNITS | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|
| BORON (EPA 200.7/6010) | MG/L | 3.26 | 0.23 | <0.10 | <0.10 |
| TRIVALENT CHROMIUM (EPA 7196 | MG/L | <0.02 | <0.02 | <0.02 | <0.02 |
| MANGANESE (EPA 200.7/6010) | MG/L | 0.023 | 0.156 | <0.010 | <0.010 |
| SODIUM (EPA 200.7/6010) | MG/L | 100 | 50.4 | <0.1 | <0.1 |
| NICKEL (EPA 200.7/6010) | MG/L | 0.076 | <0.020 | <0.020 | <0.020 |

Analytical Technologies, Inc.

# METALS - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM

ATI I.D. : 307367

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % RE |
|---|---|---|---|---|---|---|---|---|
| BORON | MG/L | 30736706 | 3.26 | 3.26 | 0 | 4.28 | 1.00 | 10 |
| MANGANESE | MG/L | 30703006 | <0.010 | <0.010 | NA | 1.03 | 1.00 | 10 |
| MANGANESE | MG/L | 30736704 | <0.010 | <0.010 | NA | 1.02 | 1.00 | 10 |
| SODIUM | MG/L | 30736706 | 100 | 101 | 1 | 149 | 50.0 | 98 |
| NICKEL | MG/L | 30736704 | <0.020 | <0.020 | NA | 0.951 | 1.00 | 95 |

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

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 10$$

Analytical Technologies, Inc.

# GCMS - RESULTS

ATI I.D. : 30736701

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-19 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | 3 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | 1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | 62 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 100 |
| BROMOFLUOROBENZENE (%) | 92 |
| TOLUENE-D8 (%) | 89 |

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736701

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30736702

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-20 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | 7 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 100 |
| BROMOFLUOROBENZENE (%) | 96 |
| TOLUENE-D8 (%) | 96 |

006117

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736702

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

# GCMS - RESULTS

ATI I.D. : 30736703

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-9 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 5 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <50 |
| BROMOMETHANE | <50 |
| VINYL CHLORIDE | <5 |
| CHLOROETHANE | <5 |
| METHYLENE CHLORIDE | <25 |
| ACETONE | <50 |
| CARBON DISULFIDE | <5 |
| 1,1-DICHLOROETHENE | 42 |
| 1,1-DICHLOROETHANE | <5 |
| 1,2-DICHLOROETHENE (TOTAL) | <5 |
| CHLOROFORM | <5 |
| 1,2-DICHLOROETHANE | <5 |
| 2-BUTANONE (MEK) | <50 |
| 1,1,1-TRICHLOROETHANE | 110 |
| CARBON TETRACHLORIDE | <5 |
| VINYL ACETATE | <50 |
| BROMODICHLOROMETHANE | <5 |
| 1,1,2,2-TETRACHLOROETHANE | <5 |
| 1,2-DICHLOROPROPANE | <5 |
| TRANS-1,3-DICHLOROPROPENE | <5 |
| TRICHLOROETHENE | 730 |
| DIBROMOCHLOROMETHANE | <5 |
| 1,1,2-TRICHLOROETHANE | <5 |
| BENZENE | <5 |
| CIS-1,3-DICHLOROPROPENE | <5 |
| 2-CHLOROETHYLVINYLETHER | <50 |
| BROMOFORM | <25 |
| 2-HEXANONE (MBK) | <50 |
| 4-METHYL-2-PENTANONE (MIBK) | <50 |
| TETRACHLOROETHENE | <5 |
| TOLUENE | <5 |
| CHLOROBENZENE | <5 |
| ETHYLBENZENE | <5 |
| STYRENE | <5 |
| TOTAL XYLENES | <5 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 100 |
| BROMOFLUOROBENZENE (%) | 95 |
| TOLUENE-D8 (%) | 91 |

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736703

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

# GCMS - RESULTS

ATI I.D. : 30736704

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-14 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 5 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <50 |
| BROMOMETHANE | <50 |
| VINYL CHLORIDE | <5 |
| CHLOROETHANE | <5 |
| METHYLENE CHLORIDE | <25 |
| ACETONE | <50 |
| CARBON DISULFIDE | <5 |
| 1,1-DICHLOROETHENE | 31 |
| 1,1-DICHLOROETHANE | <5 |
| 1,2-DICHLOROETHENE (TOTAL) | <5 |
| CHLOROFORM | <5 |
| 1,2-DICHLOROETHANE | <5 |
| 2-BUTANONE (MEK) | <50 |
| 1,1,1-TRICHLOROETHANE | 14 |
| CARBON TETRACHLORIDE | <5 |
| VINYL ACETATE | <50 |
| BROMODICHLOROMETHANE | <5 |
| 1,1,2,2-TETRACHLOROETHANE | <5 |
| 1,2-DICHLOROPROPANE | <5 |
| TRANS-1,3-DICHLOROPROPENE | <5 |
| TRICHLOROETHENE | 720 |
| DIBROMOCHLOROMETHANE | <5 |
| 1,1,2-TRICHLOROETHANE | <5 |
| BENZENE | <5 |
| CIS-1,3-DICHLOROPROPENE | <5 |
| 2-CHLOROETHYLVINYLETHER | <50 |
| BROMOFORM | <25 |
| 2-HEXANONE (MBK) | <50 |
| 4-METHYL-2-PENTANONE (MIBK) | <50 |
| TETRACHLOROETHENE | <5 |
| TOLUENE | <5 |
| CHLOROBENZENE | <5 |
| ETHYLBENZENE | <5 |
| STYRENE | <5 |
| TOTAL XYLENES | <5 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 99 |
| BROMOFLUOROBENZENE (%) | 96 |
| TOLUENE-D8 (%) | 94 |

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736704

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30736705

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/9 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/9 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-21 | DATE ANALYZED | : 08/09/9 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | 17 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | 210 D |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | 350 D |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | 3 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 103 |
| BROMOFLUOROBENZENE (%) | 94 |
| TOLUENE-D8 (%) | 92 |

006123

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736705

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30736706

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-16 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 100 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <1000 |
| BROMOMETHANE | <1000 |
| VINYL CHLORIDE | <100 |
| CHLOROETHANE | <100 |
| METHYLENE CHLORIDE | <500 |
| ACETONE | <1000 |
| CARBON DISULFIDE | <100 |
| 1,1-DICHLOROETHENE | 310 |
| 1,1-DICHLOROETHANE | <100 |
| 1,2-DICHLOROETHENE (TOTAL) | <100 |
| CHLOROFORM | <100 |
| 1,2-DICHLOROETHANE | <100 |
| 2-BUTANONE (MEK) | <1000 |
| 1,1,1-TRICHLOROETHANE | 4200 |
| CARBON TETRACHLORIDE | <100 |
| VINYL ACETATE | <1000 |
| BROMODICHLOROMETHANE | <100 |
| 1,1,2,2-TETRACHLOROETHANE | <100 |
| 1,2-DICHLOROPROPANE | <100 |
| TRANS-1,3-DICHLOROPROPENE | <100 |
| TRICHLOROETHENE | 11000 |
| DIBROMOCHLOROMETHANE | <100 |
| 1,1,2-TRICHLOROETHANE | <100 |
| BENZENE | <100 |
| CIS-1,3-DICHLOROPROPENE | <100 |
| 2-CHLOROETHYLVINYLETHER | <1000 |
| BROMOFORM | <500 |
| 2-HEXANONE (MBK) | <1000 |
| 4-METHYL-2-PENTANONE (MIBK) | <1000 |
| TETRACHLOROETHENE | <100 |
| TOLUENE | <100 |
| CHLOROBENZENE | <100 |
| ETHYLBENZENE | <100 |
| STYRENE | <100 |
| TOTAL XYLENES | <100 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 98 |
| BROMOFLUOROBENZENE (%) | 97 |
| TOLUENE-D8 (%) | 101 |

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736706

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30736707

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : MW-22 | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | 13 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | 1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | 47 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | 47 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 102 |
| BROMOFLUOROBENZENE (%) | 95 |
| TOLUENE-D8 (%) | 95 |

006127

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736707

| COMPOUNDS | RESULTS |
|---|---|
| TRICHLOROTRIFLUOROETHANE | 10 |

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30736708

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/93 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/93 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : FIELD BLANK | DATE ANALYZED | : 08/09/93 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 104 |
| BROMOFLUOROBENZENE (%) | 93 |
| TOLUENE-D8 (%) | 92 |

006129

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736708

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

# GCMS - RESULTS

ATI I.D. : 30736709

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | DATE SAMPLED | : 07/29/9 |
| PROJECT # | : 3Q93SW | DATE RECEIVED | : 07/29/9 |
| PROJECT NAME | : CRFGWM | DATE EXTRACTED | : N/A |
| CLIENT I.D. | : TRIP BLANK | DATE ANALYZED | : 08/09/9 |
| SAMPLE MATRIX | : AQUEOUS | UNITS | : UG/L |
| | | DILUTION FACTOR | : 1 |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 105 |
| BROMOFLUOROBENZENE (%) | 95 |
| TOLUENE-D8 (%) | 115 |

006131

Analytical Technologies, Inc. ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30736709

| COMPOUNDS | RESULTS |
|---|---|
| NO ADDITIONAL COMPOUNDS | |

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | ATI I.D. | : 307367 |
| PROJECT # | : 3Q93SW | DATE EXTRACTED | : 08/09/93 |
| PROJECT NAME | : CRFGWM | DATE ANALYZED | : 08/09/93 |
| CLIENT I.D. | : REAGENT BLANK | UNITS | : UG/L |
| | | DILUTION FACTOR | : N/A |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 101 |
| BROMOFLUOROBENZENE (%) | 95 |
| TOLUENE-D8 (%) | 95 |

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

| | | | |
|---|---|---|---|
| CLIENT | : SPARTON TECH., INC. | ATI I.D. | : 307367 |
| PROJECT # | : 3Q93SW | DATE EXTRACTED | : 08/09/93 |
| PROJECT NAME | : CRFGWM | DATE ANALYZED | : 08/09/93 |
| CLIENT I.D. | : REAGENT BLANK | UNITS | : UG/L |
| | | DILUTION FACTOR | : N/A |

| COMPOUNDS | RESULTS |
|---|---|
| CHLOROMETHANE | <10 |
| BROMOMETHANE | <10 |
| VINYL CHLORIDE | <1 |
| CHLOROETHANE | <1 |
| METHYLENE CHLORIDE | <5 |
| ACETONE | <10 |
| CARBON DISULFIDE | <1 |
| 1,1-DICHLOROETHENE | <1 |
| 1,1-DICHLOROETHANE | <1 |
| 1,2-DICHLOROETHENE (TOTAL) | <1 |
| CHLOROFORM | <1 |
| 1,2-DICHLOROETHANE | <1 |
| 2-BUTANONE (MEK) | <10 |
| 1,1,1-TRICHLOROETHANE | <1 |
| CARBON TETRACHLORIDE | <1 |
| VINYL ACETATE | <10 |
| BROMODICHLOROMETHANE | <1 |
| 1,1,2,2-TETRACHLOROETHANE | <1 |
| 1,2-DICHLOROPROPANE | <1 |
| TRANS-1,3-DICHLOROPROPENE | <1 |
| TRICHLOROETHENE | <1 |
| DIBROMOCHLOROMETHANE | <1 |
| 1,1,2-TRICHLOROETHANE | <1 |
| BENZENE | <1 |
| CIS-1,3-DICHLOROPROPENE | <1 |
| 2-CHLOROETHYLVINYLETHER | <10 |
| BROMOFORM | <5 |
| 2-HEXANONE (MBK) | <10 |
| 4-METHYL-2-PENTANONE (MIBK) | <10 |
| TETRACHLOROETHENE | <1 |
| TOLUENE | <1 |
| CHLOROBENZENE | <1 |
| ETHYLBENZENE | <1 |
| STYRENE | <1 |
| TOTAL XYLENES | <1 |

SURROGATE PERCENT RECOVERIES

| | |
|---|---|
| 1,2-DICHLOROETHANE-D4 (%) | 99 |
| BROMOFLUOROBENZENE (%) | 102 |
| TOLUENE-D8 (%) | 102 |

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 307367

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM
REF I.D. : 30856205

DATE ANALYZED : 08/11/93
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

| COMPOUNDS | SAMPLE RESULT | CONC. SPIKED | SPIKED SAMPLE | % REC. | DUP. SPIKED SAMPLE | DUP. % REC. | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | <1 | 50 | 58 | 116 | 52 | 104 | 11 |
| TRICHLOROETHENE | <1 | 50 | 49 | 98 | 48 | 96 | 2 |
| CHLOROBENZENE | <1 | 50 | 49 | 98 | 48 | 96 | 2 |
| TOLUENE | <1 | 50 | 51 | 102 | 48 | 96 | 6 |
| BENZENE | <1 | 50 | 51 | 102 | 50 | 100 | 2 |

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

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 307367

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : SPARTON TECH., INC.
PROJECT # : 3Q93SW
PROJECT NAME : CRFGWM
REF I.D. : 30849904

DATE ANALYZED : 08/10/93
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

| COMPOUNDS | SAMPLE RESULT | CONC. SPIKED | SPIKED SAMPLE | % REC. | DUP. SPIKED SAMPLE | DUP. % REC. | RPD |
|---|---|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | <1 | 50 | 52 | 104 | 54 | 108 | 4 |
| TRICHLOROETHENE | <1 | 50 | 44 | 88 | 46 | 92 | 4 |
| CHLOROBENZENE | <1 | 50 | 48 | 96 | 49 | 98 | 2 |
| TOLUENE | <1 | 50 | 53 | 106 | 55 | 110 | 4 |
| BENZENE | <1 | 50 | 48 | 96 | 50 | 100 | 4 |

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

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-9 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 78.35 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-03

TIME SAMPLED 1046 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4976.22 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 1.71 | 07/29/93 |
| Pump Rate | ----- | gal/min | 0.14 | 07/29/93 |
| Pump Period | 74004 | min. | 44 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 6.0 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006137

INDICATOR PARAMETERS
MW-9
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.8 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 908 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 650 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 3 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-9
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | 21 | 0.5 | 8-9-93 | 325.2 |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | 144 | 10 | 8-10-93 | 200.7/6010 |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | 81.8 | 0.1 | 8-10-93 | 200.7/6010 |
| Sulfate | 00945 | mg/1 | 190 | 0.3 | 8-3-93 | 375.2 |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006140

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 42 | 5 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 730 | 5 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 110 | 5 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-14 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 71.95 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-04

TIME SAMPLED 1146 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4974.34 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 0.71 | 07/29/93 |
| Pump Rate | ----- | gal/min | 0.19 | 07/29/93 |
| Pump Period | 74004 | min. | 85 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 2.5 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |
| Well Sampling Method: | | | BLDRP | |

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.

INDICATOR PARAMETERS
**MW-14**
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 8.0 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 759 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 630 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 1 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-14
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | 40 | 0.5 | 8-9-93 | 325.2 |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | <10 | 10 | 8-10-93 | 200.7/6010 |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | 65.1 | 0.1 | 8-10-93 | 200.7/6010 |
| Sulfate | 00945 | mg/1 | 170 | 0.3 | 8-3-93 | 375.2 |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006144

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 31 | 5 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 720 | 5 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 14 | 5 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-15 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 73.17 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/27/93 LABORATORY SAMPLE I.D. # 307360-07

TIME SAMPLED 1356 DATE RECEIVED BY LAB. 07/27/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4976.20 | 07/27/93 |
| Well Casing Volume | ----- | gal. | 0.31 | 07/27/93 |
| Pump Rate | ----- | gal/min | 0.16 | 07/27/93 |
| Pump Period | 74004 | min. | 19 | 07/27/93 |
| Volume Evacuated | 73675 | gal. | 3.0 | 07/27/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/27/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006145

INDICATOR PARAMETERS
MW-15
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 8.0 | N/A | 08/04/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 650 | 1 | 07/29/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 70 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 1 | 0.5 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

**GROUND WATER QUALITY PARAMETERS**
**MW-15**
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| **Chloride** | 00940 | mg/1 | 29 | 0.5 | 7-29-93 | 325.2 |
| **Iron** | 01045 | ug/1 | N/A | | | |
| **Manganese** | 71883 | ug/1 | <10 | 10 | 8-04-93 | 200.7/6010 |
| **Phenols** | 32730 | ug/1 | N/A | | | |
| **Sodium** | 00929 | mg/1 | 51.1 | 0.1 | 7-30-93 | 200.7/6010 |
| **Sulfate** | 00945 | mg/1 | 89 | 0.3 | 7-29-93 | 375.2 |
| **Turbidity** | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 3 | 1 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 56 | 1 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 23 | 1 | N/A | 08/09/93 | 8240 |
| TETRACHLOROETHENE | | UG/L | 1 | 1 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-16 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 71.52 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-06

TIME SAMPLED 1156 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.77 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 0.78 | 07/29/93 |
| Pump Rate | ----- | gal/min | 0.14 | 07/29/93 |
| Pump Period | 74004 | min. | 22 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 3.0 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |
| Well Sampling Method: | | | BLDRP | |

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.

INDICATOR PARAMETERS
MW-16
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.7 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 1470 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 13000 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 3 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-16
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| **Chloride** | 00940 | mg/1 | 120 | 0.5 | 8-9-93 | 325.2 |
| **Iron** | 01045 | ug/1 | N/A | | | |
| **Manganese** | 71883 | ug/1 | 23 | 10 | 8-10-93 | 200.7/6010 |
| **Phenols** | 32730 | ug/1 | N/A | | | |
| **Sodium** | 00929 | mg/1 | 100 | 0.1 | 8-10-93 | 200.7/6010 |
| **Sulfate** | 00945 | mg/1 | 230 | 0.3 | 8-3-93 | 375.2 |
| **Turbidity** | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006152

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 310 | 100 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 11000 | 100 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 4200 | 100 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-19 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 111.43 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-01

TIME SAMPLED 0926 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4975.11 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 26.30 | 07/29/93 |
| Pump Rate | ----- | gal/min | 1.02 | 07/29/93 |
| Pump Period | 74004 | min. | 78 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 80 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006153

INDICATOR PARAMETERS
MW-19
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.9 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 688 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 90 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-19
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | 24 | 0.5 | 8-9-93 | 325.2 |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | 18 | 10 | 8-10-93 | 200.7/6010 |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | 58.0 | 0.1 | 8-10-93 | 200.7/6010 |
| Sulfate | 00945 | mg/1 | 110 | 0.3 | 8-3-93 | 375.2 |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006156

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 3 | 1 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 62 | 1 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 1 | 1 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-20 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 139.00 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-02

TIME SAMPLED 0930 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4974.68 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 44.32 | 07/29/93 |
| Pump Rate | ----- | gal/min | 1.56 | 07/29/93 |
| Pump Period | 74004 | min. | 86 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 133 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |
| Well Sampling Method: | | | BLDRP | |

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006157

INDICATOR PARAMETERS
MW-20
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 8.1 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 621 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | <20 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 2 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-20
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| **Chloride** | 00940 | mg/1 | 24 | 0.5 | 8-9-93 | 325.2 |
| **Iron** | 01045 | ug/1 | N/A | | | |
| **Manganese** | 71883 | ug/1 | 807 | 10 | 8-10-93 | 200.7/6010 |
| **Phenols** | 32730 | ug/1 | N/A | | | |
| **Sodium** | 00929 | mg/1 | 50.0 | 0.1 | 8-10-93 | 200.7/6010 |
| **Sulfate** | 00945 | mg/1 | 81 | 0.3 | 8-3-93 | 375.2 |
| **Turbidity** | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006160

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | <1 | 1 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 7 | 1 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | <1 | 1 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-21 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 70.56 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-05

TIME SAMPLED 1246 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.19 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 0.39 | 07/29/93 |
| Pump Rate | ----- | gal/min | 0.04 | 07/29/93 |
| Pump Period | 74004 | min. | 36 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 1.4 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |
| Well Sampling Method: | | | BLDRP | |

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006161

INDICATOR PARAMETERS
MW-21
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 8.0 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 662 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 420 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-21
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | 23 | 0.5 | 8-9-93 | 325.2 |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | <10 | 10 | 8-10-93 | 200.7/6010 |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | 50.5 | 0.1 | 8-10-93 | 200.7/6010 |
| Sulfate | 00945 | mg/1 | 100 | 0.3 | 8-3-93 | 375.2 |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006164

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 17 | 1 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 350 | 1 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 210 | 1 | N/A | 08/09/93 | 8240 |
| TETRACHLOROETHENE | | UG/L | 3 | 1 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE

# INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d)(4), (5), and (7)(e), and (f), and Section 265.94(b).]

**NEW MEXICO ENVIRONMENTAL DEPARTMENT**
**HAZARDOUS & RADIOACTIVE MATERIALS BUREAU**
**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Third Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-22 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 76.05 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 07/29/93 LABORATORY SAMPLE I.D. # 307367-07

TIME SAMPLED 1330 DATE RECEIVED BY LAB. 07/29/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.39 | 07/29/93 |
| Well Casing Volume | ----- | gal. | 1.37 | 07/29/93 |
| Pump Rate | ----- | gal/min | 0.12 | 07/29/93 |
| Pump Period | 74004 | min. | 36 | 07/29/93 |
| Volume Evacuated | 73675 | gal. | 4.1 | 07/29/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 07/29/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



006165

INDICATOR PARAMETERS
MW-22
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.9 | N/A | 08/11/93 | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 693 | 1 | 07/30/93 | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 100 | 20 | 08/03/93 | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 08/06/93 | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-22
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| **Chloride** | 00940 | mg/1 | 22 | 0.5 | 8-9-93 | 325.2 |
| **Iron** | 01045 | ug/1 | N/A | | | |
| **Manganese** | 71883 | ug/1 | 156 | 10 | 8-10-93 | 200.7/6010 |
| **Phenols** | 32730 | ug/1 | N/A | | | |
| **Sodium** | 00929 | mg/1 | 50.4 | 0.1 | 8-10-93 | 200.7/6010 |
| **Sulfate** | 00945 | mg/1 | 83 | 0.3 | 8-3-93 | 375.2 |
| **Turbidity** | | NTU | N/A | | | |

DATE OF THIS REPORT: 10/26/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

N/A = NOT APPLICABLE
N/D = NOT DETECTED

006168

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d)(4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

| PARAMETER | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 13 | 1 | N/A | 08/09/93 | 8240 |
| TRICHLOROETHENE | | UG/L | 47 | 1 | N/A | 08/09/93 | 8240 |
| 1,1,1-TRICHLOROETHANE | | UG/L | 47 | 1 | N/A | 08/09/93 | 8240 |
| CHLOROFORM | | UG/L | 1 | 1 | N/A | 08/09/93 | 8240 |

N/A = NOT APPLICABLE