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Analytical Technologies, Inc.

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1993 AUG
RECEIVED
WASTE
TEAM

ATI I.D. **307359**

August 18, 1993

New Mexico Environment Dept.
P.O. Box 26110
Santa Fe, NM 87502

Project Name/Number: SPARTON TECHNOLOGIES

Attention: Steve Alexander

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.

All 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

Adela M. Cantu
Senior Organic Chemist

Letitia Krakowski

Letitia Krakowski
Acting Laboratory Manager

LAK:jd

Enclosure

Analytical Technologies, Inc.

CLIENT : NEW MEXICO ENVIRONMENTAL DEPT. DATE RECEIVED : 07/27/93
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES REPORT DATE : 08/18/93
ATI I.D. : 307359

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-15	AQUEOUS	07/27/93
02	MW-41	AQUEOUS	07/27/93
03	MW-36	AQUEOUS	07/27/93
04	MW-32	AQUEOUS	07/27/93
05	MW-60	AQUEOUS	07/27/93
06	MW-61	AQUEOUS	07/27/93
07	TRIP BLANK	AQUEOUS	07/26/93
08	MW-44	AQUEOUS	07/27/93

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	8

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 307359

CLIENT : NEW MEXICO ENVIRONMENTAL DEPT.
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES

DATE RECEIVED : 07/27/93
REPORT DATE : 08/18/93

PARAMETER	UNITS	01	02	03	04	05
SILVER (EPA 200.7/6010)	MG/L	<0.010	<0.010	<0.010	<0.010	<0.010
ARSENIC (EPA 206.2/7060)	MG/L	0.008	<0.005	<0.005	<0.005	<0.005
BERYLLIUM (EPA 200.7/6010)	MG/L	<0.005	<0.005	<0.005	<0.005	<0.005
CADMIUM (EPA 213.2/7131)	MG/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
CHROMIUM (EPA 200.7/6010)	MG/L	<0.010	<0.010	0.057	<0.010	<0.010
COPPER (EPA 200.7/6010)	MG/L	<0.010	<0.010	<0.010	<0.010	<0.010
MERCURY (EPA 245.1/7470)	MG/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
NICKEL (EPA 200.7/6010)	MG/L	<0.020	<0.020	<0.020	0.033	<0.020
LEAD (EPA 239.2/7421)	MG/L	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY (EPA 200.7/6010)	MG/L	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM (EPA 270.2/7740)	MG/L	<0.005	<0.005	<0.005	<0.005	<0.005
THALLIUM (EPA 279.2/7841)	MG/L	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC (EPA 200.7/6010)	MG/L	<0.020	<0.020	<0.020	<0.020	<0.020

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 307359

CLIENT : NEW MEXICO ENVIRONMENTAL DEPT.
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES

DATE RECEIVED : 07/27/93
REPORT DATE : 08/18/93

PARAMETER	UNITS	06	08
SILVER (EPA 200.7/6010)	MG/L	<0.010	<0.010
ARSENIC (EPA 206.2/7060)	MG/L	<0.005	0.005
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
COPPER (EPA 200.7/6010)	MG/L	<0.010	<0.010
MERCURY (EPA 245.1/7470)	MG/L	<0.0002	<0.0002
NICKEL (EPA 200.7/6010)	MG/L	<0.020	<0.020
LEAD (EPA 239.2/7421)	MG/L	<0.002	<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 : NEW MEXICO ENVIRONMENTAL DEPT.
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES ATI I.D. : 307359

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
SILVER	MG/L	30735902	<0.010	<0.010	NA	1.02	1.00	102
ARSENIC	MG/L	30735901	0.008	0.008	0	0.059	0.050	102
BERYLLIUM	MG/L	30735902	<0.005	<0.005	NA	0.979	1.00	98
CADMIUM	MG/L	30735901	<0.0005	<0.0005	NA	0.0057	0.0050	114
CHROMIUM	MG/L	30735902	<0.010	<0.010	NA	1.04	1.00	104
COPPER	MG/L	30735902	<0.010	<0.010	NA	1.02	1.00	102
MERCURY	MG/L	30735901	<0.0002	<0.0002	NA	0.0052	0.0050	104
NICKEL	MG/L	30735902	<0.020	<0.020	NA	1.00	1.00	100
LEAD	MG/L	30735901	<0.002	<0.002	NA	0.049	0.050	98
ANTIMONY	MG/L	30735902	<0.05	<0.05	NA	1.04	1.00	104
SELENIUM	MG/L	30793608	<0.005	<0.005	NA	0.044	0.050	88
THALLIUM	MG/L	30793608	<0.005	<0.005	NA	0.052	0.050	104
THALLIUM	MG/L	30793603	<0.005	<0.005	NA	0.048	0.050	96
ZINC	MG/L	30735902	<0.020	<0.020	NA	1.04	1.00	104

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

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

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735901

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-15	DATE ANALYZED	: 08/05/93
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	5
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	24
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	61
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 (%)	95
TOLUENE-D8 (%)	96

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735901

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735902

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-41	DATE ANALYZED	: 08/07/93
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 2

COMPOUNDS	RESULTS
CHLOROMETHANE	<20
BROMOMETHANE	<20
VINYL CHLORIDE	<2
CHLOROETHANE	<2
METHYLENE CHLORIDE	90
ACETONE	<20
CARBON DISULFIDE	<2
1,1-DICHLOROETHENE	83
1,1-DICHLOROETHANE	<2
1,2-DICHLOROETHENE (TOTAL)	<2
CHLOROFORM	<2
1,2-DICHLOROETHANE	<2
2-BUTANONE (MEK)	<20
1,1,1-TRICHLOROETHANE	110
CARBON TETRACHLORIDE	<2
VINYL ACETATE	<20
BROMODICHLOROMETHANE	<2
1,1,2,2-TETRACHLOROETHANE	<2
1,2-DICHLOROPROPANE	<2
TRANS-1,3-DICHLOROPROPENE	<2
TRICHLOROETHENE	380
DIBROMOCHLOROMETHANE	<2
1,1,2-TRICHLOROETHANE	<2
BENZENE	<2
CIS-1,3-DICHLOROPROPENE	<2
2-CHLOROETHYLVINYLETHER	<20
BROMOFORM	<10
2-HEXANONE (MBK)	<20
4-METHYL-2-PENTANONE (MIBK)	<20
TETRACHLOROETHENE	7
TOLUENE	<2
CHLOROBENZENE	<2
ETHYLBENZENE	<2
STYRENE	<2
TOTAL XYLENES	<2

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	94
BROMOFLUOROBENZENE (%)	93
TOLUENE-D8 (%)	98

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735902

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735903

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-36	DATE ANALYZED	: 08/05/93
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	4
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 (%)	96
BROMOFLUOROBENZENE (%)	96
TOLUENE-D8 (%)	91

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735903

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735904

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-32	DATE ANALYZED	: 08/08/93
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 50

COMPOUNDS	RESULTS
CHLOROMETHANE	<500
BROMOMETHANE	<500
VINYL CHLORIDE	<50
CHLOROETHANE	<50
METHYLENE CHLORIDE	<250
ACETONE	<500
CARBON DISULFIDE	<50
1,1-DICHLOROETHENE	600
1,1-DICHLOROETHANE	<50
1,2-DICHLOROETHENE (TOTAL)	<50
CHLOROFORM	<50
1,2-DICHLOROETHANE	<50
2-BUTANONE (MEK)	<500
1,1,1-TRICHLOROETHANE	360
CARBON TETRACHLORIDE	<50
VINYL ACETATE	<500
BROMODICHLOROMETHANE	<50
1,1,2,2-TETRACHLOROETHANE	<50
1,2-DICHLOROPROPANE	<50
TRANS-1,3-DICHLOROPROPENE	<50
TRICHLOROETHENE	4300
DIBROMOCHLOROMETHANE	<50
1,1,2-TRICHLOROETHANE	<50
BENZENE	<50
CIS-1,3-DICHLOROPROPENE	<50
2-CHLOROETHYLVINYLETHER	<500
BROMOFORM	<250
2-HEXANONE (MBK)	<500
4-METHYL-2-PENTANONE (MIBK)	<500
TETRACHLOROETHENE	<50
TOLUENE	<50
CHLOROBENZENE	<50
ETHYLBENZENE	<50
STYRENE	<50
TOTAL XYLENES	<50

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	86
BROMOFLUOROBENZENE (%)	95
TOLUENE-D8 (%)	88

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735904

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735905

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-60	DATE ANALYZED	: 08/05/93
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	5
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 (%)	95
BROMOFLUOROBENZENE (%)	99
TOLUENE-D8 (%)	92

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735905

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735906

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-61	DATE ANALYZED	: 08/05/93
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 2

COMPOUNDS	RESULTS
CHLOROMETHANE	<20
BROMOMETHANE	<20
VINYL CHLORIDE	<2
CHLOROETHANE	<2
METHYLENE CHLORIDE	<10
ACETONE	<20
CARBON DISULFIDE	<2
1,1-DICHLOROETHENE	14
1,1-DICHLOROETHANE	<2
1,2-DICHLOROETHENE (TOTAL)	<2
CHLOROFORM	<2
1,2-DICHLOROETHANE	<2
2-BUTANONE (MEK)	<20
1,1,1-TRICHLOROETHANE	5
CARBON TETRACHLORIDE	<2
VINYL ACETATE	<20
BROMODICHLOROMETHANE	<2
1,1,2,2-TETRACHLOROETHANE	<2
1,2-DICHLOROPROPANE	<2
TRANS-1,3-DICHLOROPROPENE	<2
TRICHLOROETHENE	410
DIBROMOCHLOROMETHANE	<2
1,1,2-TRICHLOROETHANE	<2
BENZENE	<2
CIS-1,3-DICHLOROPROPENE	<2
2-CHLOROETHYLVINYLETHER	<20
BROMOFORM	<10
2-HEXANONE (MBK)	<20
4-METHYL-2-PENTANONE (MIBK)	<20
TETRACHLOROETHENE	3
TOLUENE	<2
CHLOROBENZENE	<2
ETHYLBENZENE	<2
STYRENE	<2
TOTAL XYLENES	<2

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	98
BROMOFLUOROBENZENE (%)	97
TOLUENE-D8 (%)	93

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735906

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735907

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/26/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: TRIP BLANK	DATE ANALYZED	: 08/05/93
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 (%)	95
BROMOFLUOROBENZENE (%)	97
TOLUENE-D8 (%)	92

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Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735907

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 30735908

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE SAMPLED	: 07/27/93
PROJECT #	: (NONE)	DATE RECEIVED	: 07/27/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-44	DATE ANALYZED	: 08/08/93
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 (%)	89
BROMOFLUOROBENZENE (%)	101
TOLUENE-D8 (%)	103

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 30735908

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

		ATI I.D.	: 307359
CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE EXTRACTED	: 08/05/93
PROJECT #	: (NONE)	DATE ANALYZED	: 08/05/93
PROJECT NAME	: SPARTON TECHNOLOGIES	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 (%)	91
BROMOFLUOROBENZENE (%)	91
TOLUENE-D8 (%)	88

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

		ATI I.D.	: 307359
CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	DATE EXTRACTED	: 08/07/93
PROJECT #	: (NONE)	DATE ANALYZED	: 08/07/93
PROJECT NAME	: SPARTON TECHNOLOGIES	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

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENTAL DEPT.	ATI I.D.	: 307359
PROJECT #	: (NONE)	DATE EXTRACTED	: 08/08/93
PROJECT NAME	: SPARTON TECHNOLOGIES	DATE ANALYZED	: 08/08/93
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 (%)	88
BROMOFLUOROBENZENE (%)	100
TOLUENE-D8 (%)	99

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 307359

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : NEW MEXICO ENVIRONMENTAL DEPT.
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES
REF I.D. : 30735703

DATE ANALYZED : 08/05/93
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	47	94	41	82	14
TRICHLOROETHENE	33	50	79	92	79	92	0
CHLOROBENZENE	<1	50	48	96	48	96	0
TOLUENE	<1	50	44	88	42	84	5
BENZENE	<1	50	46	92	45	90	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. : 307359

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : NEW MEXICO ENVIRONMENTAL DEPT.
PROJECT # : (NONE)
PROJECT NAME : SPARTON TECHNOLOGIES
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

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

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

AnalyticalTechnologies,Inc., Albuquerque, NM
San Diego ▪ Phoenix ▪ Seattle ▪ Pensacola ▪ Ft. Collins ▪ Portland ▪ Albuquerque

CHAIN OF CUSTODY

DATE: 7/27/93 PAGE 1 OF 1

ATI LAB I.D. 307359

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Steve Alexander

COMPANY: NMED
ADDRESS:
PHONE:
FAX:

BILL TO: HRMB
COMPANY: 525 Camino de los Marquez
ADDRESS: Santa Fe NM 87502

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	NUMBER OF CONTAINERS
MW-15	7/27		H_2O	01											2						1			3
MW-41	7/27		"	02											2						1			3
MW-36	7/27		"	03											2						1			3
MW-32	7/27		"	04											2						1			3
MW-60	7/27		"	05											2						1			3
MW-61	7/27		H_2O	06											2						1			3
Trip Blk	7/27		"	07											1						[illegible]			1
MW-44	7/27		H_2O	08											2						1			3

007123

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. ~~NO.~~ name: Spartan Technologies		NO. CONTAINERS	[illegible]
PROJ. NAME:		CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:		RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☐ 2 WEEK

Comments:

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature: Stan M. Alexander	Time: 15:16	Signature:	Time:	Signature:	Time:
Printed Name: Steven M Alexander	Date: 7/27/93	Printed Name:	Date:	Printed Name:	Date:
Company: HRMB	Phone: 827-4313	Company:		Company:	

RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY:(LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature: [illegible]	Time: 1516
Printed Name:	Date:	Printed Name:	Date:	Printed Name: Terri Dettre	Date: 7/27/93
Company:		Company:		Analytical Technologies, Inc.	

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical**Technologies,**Inc. Albuquerque, NM

Chain of Custody

DATE 7/27/93 PAGE 1 OF 1

NETWORK PROJECT MANAGER: BETH PROFFITT

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310			8240 (TCLP 1311) ZHE		Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)	13 Priority Pollutant Metals	NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O_2, CO_2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
307359-1	7/27/93		AQ	1															X	X													2
-2				2															X	X													3
-3				3															X	X													3
-4				4															X	X													3
-5				5															X	X													3
-6				6															X	X													3
-7 TB	7/26/93			7															X														1
-8 (T.B.)	7/27/93			8															X	X													3

PROJECT INFORMATION	
PROJECT NUMBER:	307359
PROJECT NAME:	NMED
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	22
CHAIN OF CUSTODY SEALS	* Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	307359

DUE DATE: 8/10/93

RUSH SURCHARGE:

CLIENT DISCOUNT: 10 %

W.O.# LK562

* Seals on VOA's only

SAMPLES SENT TO:
- SAN DIEGO
- FT. COLLINS
- RENTON
- PENSACOLA
- PHOENIX X
- BARRINGER
- FIBERQUANT

RELINQUISHED BY: 1.
Signature: Terri Dotter Time: 1730
Printed Name: Terri Dotter Date 7/27/93
Analytical Technologies, Inc. Albuquerque

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company:

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Rosella Vidal Time: 947
Printed Name: Rosella Vidal Date: 7/28/93
Company:

0071124