SPARTON

SPARTON TECHNOLOGY

Certified Mail-Return Receipt Requested

Sept 24, 1998

Mr. Benito Garcia
Bureau Chief
Hazardous And Radioactive Materials Bureau
New Mexico Environment Department
PO Box 26110
Santa Fe, New Mexico 87505

Re: Third Quarter 1998 AGMP Report

Dear Mr. Garcia:

Enclosed is Sparton Technology's Ground Water Report for the 3rd Quarter 1998 as required by the Alternate Ground Water Monitoring Program. Included in the report is a copy of AEN lab reports number 807386 and 807397.

MW-15 was not sampled as the well was dry. Ground water samples for AGMP wells were collected by Sparton Technology, Inc. and Metric Corp. personnel on 7/ 30/ 1998.

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

Sincerely,
SPARTON TECHNOLOGY, INC.

Richard D. Mico
Vice President and General Manager

enclosures:

cc: (without enclosures)
Jan Appel
John Rose

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

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).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: DON GUTIERREZ

WELL DEPTH: 78.35 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-30-98 LABORATORY SAMPLE I.D. #: 807386-01

TIME SAMPLED: 1230 DATE RECEIVED BY LAB: 7-30-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.33	7-30-98
Well Casing Volume	--------	gal.	1.24	7-30-98
Pump Rate	--------	gal./min.	0.07	7-30-98
Pump Period	72004	min.	55	7-30-98
Volume Evacuated	73675	gal.	4.0	7-30-98
Well Sampling Method	84077	--------	BLDRP	7-30-98
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.21	NA	7-31-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	610	1	8-3-98	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	290	50	8-5-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	3	1.0	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	ND	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	40	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	64	0.2	8-6-98	200.7
Sulfate	00945	mg/l	83	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-23-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-9

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	30	0.2	NA	8-4-98	8021
Trichloroethene	ug/L	370	0.3	NA	8-4-98	8021
1,1,1 Trichloroethane	ug/L	29	1.0	NA	8-4-98	8021
Methylene Chloride	ug/L	140	2.0	NA	8-4-98	8021
Chromium, total	mg/L	<0.01	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	<0.01	0.01	NA	7-31-98	7196-A
Chromium, trivalent	mg/L	<0.01	NA	NA	NA	NA
Boron	mg/L	1.4	0.09	NA	8-6-98	200.7
Nickel	mg/L	<0.02	0.02	NA	8-6-98	200.7
Nitrate Nitrogen	mg/L	0.2	0.1	NA	8-1-98	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	1.0	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	0.2	0.1	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	7-30-98	354.1

ND = Not Detected
NA = Not Analyzed

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-14 SAMPLE COLLECTION BY: DON GUTIERREZ

WELL DEPTH: 73.08 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-30-98 LABORATORY SAMPLE I.D. #: 807386-05

TIME SAMPLED: 1400 DATE RECEIVED BY LAB: 7-30-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.64	7-30-98
Well Casing Volume	--------	gal.	0.27	"
Pump Rate	--------	gal./min.	0.02	"
Pump Period	72004	min.	40	"
Volume Evacuated	73675	gal.	0.9	"
Well Sampling Method	84077	--------	BLDRP	"
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.53	NA	7-31-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	790	1	8-3-98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	240	10	8-5-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1.0	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	31	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	<10	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	58	0.2	8-6-98	200.7
Sulfate	00945	mg/l	160	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-23-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-14

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	27	0.2	NA	8-4-98	8021
Trichloroethene	ug/L	450	0.3	NA	8-4-98	8021
1,1,1 Trichloroethane	ug/L	5.4	1.0	NA	8-4-98	8021
Methylene Chloride	ug/L	<2.0	2.0	NA	7-31-98	8021
Chromium, total	mg/L	0.6	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	0.6	0.01	NA	7-31-98	7196-A
Chromium, trivalent	mg/L	<0.01	NA	NA	NA	NA
Boron	mg/L	0.80	0.09	NA	8-6-98	200.7
Nickel	mg/L	<0.02	0.02	NA	8-6-98	200.7
Nitrate Nitrogen	mg/L	19	0.1	NA	8-1-98	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	19	0.5	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	7-30-98	354.1

ND = Not Detected
NA = Not Analyzed

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-15 SAMPLE COLLECTION BY: N/A

WELL DEPTH: 73.17 LABORATORY NAME: N/A

DATE SAMPLED: NA LABORATORY SAMPLE I.D. #: N/A

TIME SAMPLED: N/A DATE RECEIVED BY LAB: N/A

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	DRY	7-30-98
Well Casing Volume	--------	gal.		
Pump Rate	--------	gal./min.		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.		
Well Sampling Method	84077	--------	BLDRP	
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	N/A	NA		
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	N/A	1		
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	N/A	10		
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	N/A	1.0		
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT ANALYZED

GROUND WATER QUALITY PARAMETERS MW-15

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
				WELL IS DRY.		
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l				
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l				
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU				

DATE OF THIS REPORT: 9-23-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Analyzed

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-15

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	NA	NA	NA	NA	8021
Trichloroethene	ug/L	NA	NA	NA	NA	8021
1,1,1 Trichloroethane	ug/L	NA	NA	NA	NA	8021
Methylene Chloride	ug/L	NA	NA	NA	NA	8021
Chromium, total	mg/L	N/A	NA	N/A	NA	200.7
Chromium, hexavalent	mg/L	N/A	NA	N/A	NA	SM 3500 CR D
Chromium, trivalent	mg/L	N/A	NA	N/A	NA	7196
Boron	mg/L	N/A	NA	N/A	NA	200.7
Nickel	mg/L	N/A	NA	N/A	NA	200.7
Nitrate Nitrogen	mg/L	N/A	NA	N/A	NA	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	N/A	NA	N/A	NA	351.2
Nitrite-Nitrate Nitrogen	mg/L	N/A	NA	N/A	NA	353.2
Nitrite Nitrogen	mg/L	N/A	NA	N/A	NA	354.1

ND = Not Detected
N/A = Not Analyzed

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-16 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 71.52 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-31-98 LABORATORY SAMPLE I.D. #: 807397-01

TIME SAMPLED: 1356 DATE RECEIVED BY LAB: 7-31-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.59	7-31-98
Well Casing Volume	--------	gal.	0.70	"
Pump Rate	--------	gal./min.	0.11	"
Pump Period	72004	min.	20	"
Volume Evacuated	73675	gal.	2.2	"
Well Sampling Method	84077	--------	BOTUB	"
Sampler Material	--------	--------	POLY	N/A

WELL SAMPLING METHOD: BOTUB

INDICATOR PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.05	NA	8-5-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	850	1	8-3-98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	920	40	8-6-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE
* pH analysis out of hold time.

GROUND WATER QUALITY PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	22	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	560	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	47	0.2	8-6-98	200.7
Sulfate	00945	mg/l	81	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 8-24-98

SIGNATURE: _____

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	49	0.2	NA	8-4-98	8021
Trichloroethene	ug/L	2000	0.3	NA	8-4-98	8021
1,1,1 Trichloroethane	ug/L	320	1	NA	8-4-98	8021
Methylene Chloride	ug/l	2.0	2.0	NA	8-3-98	8021
Chromium, total	mg/L	0.38	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	0.07	0.01	NA	7-31-98	7196A
Chromium, trivalent	mg/L	0.31	NA	NA	NA	N/A
Boron	mg/L	0.22	0.09	NA	8-6-98	200.7
Nickel	mg/L	0.05	0.02	NA	8-6-98	200.7
Nitrate Nitrogen	mg/L	3.5	0.1	NA	8-27-97	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	63	2.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	3.6	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	0.1	0.1	NA	8-22-97	354.1

ND = Not Detected
NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: DON GUTIERREZ

WELL DEPTH: 111.43 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-30-98 LABORATORY SAMPLE I.D. #: 807386-02

TIME SAMPLED: 1020 DATE RECEIVED BY LAB: 7-30-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.20	7-30-98
Well Casing Volume	--------	gal.	24.43	"
Pump Rate	--------	gal./min.	0.78	"
Pump Period	72004	min.	106	"
Volume Evacuated	73675	gal.	78.0	"
Well Sampling Method	84077	--------	BLDRP	"
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.16	NA	7-31-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	8-3-98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	20	10	8-4-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	21	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	10	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	55	0.2	8-6-98	200.7
Sulfate	00945	mg/l	120	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-24-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-19

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	1.4	0.2	NA	7-31-98	8021
Trichloroethene	ug/L	18	0.3	NA	7-31-98	8021
1,1,1 Trichloroethane	ug/L	<1.0	1.0	NA	7-31-98	8021
Methylene Chloride	ug/L	<2.0	2.0	NA	7-31-98	8021
Chromium, total	mg/L	<0.01	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	<0.01	0.01	NA	7-31-98	7196-A
Chromium, trivalent	mg/L	<0.01	NA	NA	NA	NA
Boron	mg/L	0.16	0.09	NA	8-6-98	200.7
Nickel	mg/L	<0.02	0.02	NA	8-6-98	200.7
Nitrate as Nitrogen	mg/L	3.7	0.1	NA	8-1-98	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	3.7	0.1	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	7-30-98	354.1

ND = Not Detected
NA = Not Applicable

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-20 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 139.00 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-30-98 LABORATORY SAMPLE I.D. #: 807386-04

TIME SAMPLED: 1040 DATE RECEIVED BY LAB: 7-30-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.74	7-30-98
Well Casing Volume	--------	gal.	42.40	"
Pump Rate	--------	gal./min.	0.66	"
Pump Period	72004	min.	196	"
Volume Evacuated	73675	gal.	129.5	"
Well Sampling Method	84077	--------	BLDRP	"
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.31	NA	7-31-98	
	00400	S.U.				
	00400	S.U.				150.1
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	630	1	8-3-98	
	00095	umhos/cm				
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
T.O.X.	70354	ug/l	10	10	8-4-98	
	70354	ug/l				
	70354	ug/l				9020
	70354	ug/l				
T.O.C.	00680	mg/l	3	1	8-3-98	
	00680	mg/l				
	00680	mg/l				415.1/EPA 600
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	18	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	670	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	43	0.2	8-6-98	200.7
Sulfate	00945	mg/l	91	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-25-98

SIGNATURE: _____

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-20

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	<0.2	0.2	NA	7-31-98	8021
Trichloroethene	ug/L	3.1	0.3	NA	7-31-98	8021
1,1,1 Trichloroethane	ug/L	<1.0	1.0	NA	7-31-98	8021
Methylene Chloride	ug/L	<2.0	2.0	NA	7-31-98	8021
Chromium, total	mg/L	<0.01	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	<0.01	0.01	NA	7-31-98	7196-A
Chromium, trivalent	mg/L	<0.01	NA	NA	NA	NA
Boron	mg/L	0.10	0.09	NA	8-6-98	200.7
Nickel	mg/L	<0.02	0.02	NA	8-6-98	200.7
Nitrate as Nitrogen	mg/L	0.7	0.1	NA	8-1-98	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	0.5	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	0.7	0.1	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	7-30-98	354.1

ND = Not Detected
NA = 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).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: DON GUTIERREZ

WELL DEPTH: 70.56 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-31-98 LABORATORY SAMPLE I.D. #: 807397-02

TIME SAMPLED: 1257 DATE RECEIVED BY LAB: 7-31-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.51	7-31-98
Well Casing Volume	--------	gal.	0.12	"
Pump Rate	--------	gal./min.	0.04	"
Pump Period	72004	min.	10	"
Volume Evacuated	73675	gal.	0.40	"
Well Sampling Method	84077	--------	BOTUB	"
Sampler Material	--------	--------	POLY	N/A

WELL SAMPLING METHOD: BOTUB

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.79	NA	8-5-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	610	1	8-3-98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	190	10	8-6-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	17	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	570	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	44	0.2	8-6-98	200.7
Sulfate	00945	mg/l	88	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-25-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-21

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	0.8	0.2	NA	8-4-98	8021
Trichloroethene	ug/L	20	0.3	NA	8-3-98	8021
1,1,1 Trichloroethane	ug/L	5.0	1.0	NA	8-3-98	8021
Methylene Chloride	ug/L	<2.0	2.0	NA	8-3-98	8021
Chromium, total	mg/L	0.06	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	0.04	0.01	NA	7-31-98	7196A
Chromium, trivalent	mg/L	0.02	NA	NA	NA	
Boron	mg/L	0.11	0.09	NA	8-6-98	200.7
Nickel	mg/L	0.05	0.02	NA	8-6-98	200.7
Nitrate Nitrogen	mg/L	3.6	0.1	NA	8-1-98	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	1.2	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	3.6	0.1	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-1-98	354.1

ND = Not Detected
NA = 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).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: DON BRIGGS

WELL DEPTH: 76.05 LABORATORY NAME: PINNACLE LABS

DATE SAMPLED: 7-31-98 LABORATORY SAMPLE I.D. #: 807397-03

TIME SAMPLED: 1450 DATE RECEIVED BY LAB: 7-31-98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4977.89	7-31-98
Well Casing Volume	--------	gal.	0.96	"
Pump Rate	--------	gal./min.	0.075	"
Pump Period	72004	min.	61	"
Volume Evacuated	73675	gal.	4.5	"
Well Sampling Method	84077	--------	BLDRP	"
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.86	NA	8-5-98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	680	1	8-3-98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	50	10	8-6-98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	8-3-98	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	16	1	8-3-98	4500 CLB
Iron	01045	ug/l				
Manganese	71883	ug/l	720	10	8-6-98	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	47	0.2	8-6-98	200.7
Sulfate	00945	mg/l	69	50	8-3-98	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 9-28-98

SIGNATURE:

NAME (PRINTED: JOHN M. ROSE

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-22

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	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	ug/L	4.8	0.2	NA	8-3-98	8021
Trichloroethene	ug/L	35	0.3	NA	8-3-98	8021
1,1,1 Trichloroethane	ug/L	14	1.0	NA	8-3-98	8021
Methylene Chloride	ug/L	<2.0	2.0	NA	8-3-98	8021
Chromium, total	mg/L	0.02	0.01	NA	8-6-98	200.7
Chromium, hexavalent	mg/L	<0.01	0.01	NA	7-31-98	7196A
Chromium, trivalent	mg/L	0.02	NA	NA	NA	NA
Boron	mg/L	0.18	0.09	NA	8-6-98	200.7
Nickel	mg/L	0.02	0.02	NA	8-6-98	200.7
Nitrate Nitrogen	mg/L	4.9	0.1	NA	8-1-98	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	0.7	0.5	NA	8-4-98	351.2
Nitrite-Nitrate Nitrogen	mg/L	4.9	0.1	NA	8-3-98	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-1-98	354.1

ND = Not Detected
NA = Not Analyzed

MW = 16/21/22/PZ2

PINNACLE LABORATORIES

AEN I.D. 807397

August 12, 1998

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. NW
RIO RANCHO, NM 87124

Project Name AGWMP-3Q98
Project Number 073198-A

Attention: JOHN ROSE

On 7/31/98 Pinnacle Laboratories, Inc., formerly American Environmental Network (NM), 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.

EPA methods 150.1 and 8021 were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

All other parameters were performed by STL, Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807397
PROJECT #	: 073198-A	DATE RECEIVED	: 7/31/98
PROJECT NAME	: AGWMP-3Q98	REPORT DATE	: 8/12/98

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW16	AQUEOUS	7/31/98
02	MW21	AQUEOUS	7/31/98
03	MW22	AQUEOUS	7/31/98
04	TB	AQUEOUS	7/30/98
05	PZ2	AQUEOUS	7/31/98

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807397
PROJECT #	: 073198-A	DATE RECEIVED	: 7/31/98
PROJECT NAME	: AGWMP-3Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW16	AQUEOUS	7/31/98	8/5/98
02	MW21	AQUEOUS	7/31/98	8/5/98
03	MW22	AQUEOUS	7/31/98	8/5/98

PARAMETER	UNITS	01	02	03
PH (150.1)	UNITS	8.05	7.79	7.86

CHEMIST NOTES:
N/A

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807397
PROJECT #	: 073198-A	DATE RECEIVED	: 7/31/98
PROJECT NAME	: AGWMP-3Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	TB	AQUEOUS	7/30/98	8/5/98
05	PZ2	AQUEOUS	7/31/98	8/5/98

PARAMETER	UNITS	04	05
PH (150.1)	UNITS	8.94	8.57

CHEMIST NOTES:
N/A

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807397
PROJECT #	: 073198-A	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AGWMP-3Q98		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	807397-03	7.86	7.80	0.8

CHEMIST NOTES:
N/A

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

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

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 807397
PROJECT # : 073198-A
PROJECT NAME : AGWMP-3Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW16	AQUEOUS	7/31/98	NA	8/3/98	1
02	MW21	AQUEOUS	7/31/98	NA	8/3/98	1
03	MW22	AQUEOUS	7/31/98	NA	8/3/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
BROMODICHLORMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**1.8**	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	**1.0**	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**49 (D50)**	**0.8**	**4.8**
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	**2.0**	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**31 (D50)**	< 0.5	**0.8**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	**320 (D50)**	**5.0**	**14**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	**2.6**	< 0.2	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**2000* (D50)**	**20***	**35***
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			91	105	105
SURROGATE LIMITS	(73 - 117)				
TRIFLUOROTOLUENE (%)			110 (D50)	109	111
SURROGATE LIMITS	(69 - 117)				

CHEMIST NOTES:

*** REPORTED FROM ALTERNATE COLUMN.**

(D50) = 50X DILUTION, ANALYZED 8-4-98.

2709-D Pan American Freeway, NE. Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 807397
PROJECT # : 073198-A
PROJECT NAME : AGWMP-3Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	TB	AQUEOUS	7/30/98	NA	8/3/98	1
05	PZ2	AQUEOUS	7/30/98	NA	8/3/98	1

PARAMETER	DET. LIMIT	UNITS	04	05
BROMODICHLORMETHANE	0.5	UG/L	< 0.5	< 0.5
BROMOFORM	0.5	UG/L	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.5	< 0.5
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)			103	102
SURROGATE LIMITS	(73 - 117)			

CHEMIST NOTES:
N/A

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 080398	AEN I.D.	: 807397
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073198-A	DATE ANALYZED	: 8/3/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.5
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.5
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		107
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

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GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 080498	AEN I.D.	: 807397
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073198-A	DATE ANALYZED	: 8/4/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.5
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		102
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

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GAS CHROMOTOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
MSMSD #	: 807392-03	AEN I.D.	: 807397
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073198-A	DATE ANALYZED	: 8/3/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	8.5	85	9.3	93	9	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	8.4	84	9.8	98	15	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	8.7	87	10.3	103	17	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

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Committed To *Your* Success

Severn Trent Laboratories
11 East Olive Road
Pensacola FL 32514

Tel: (850) 474-1001
Fax: (850) 474-4789

SIGNATURE PAGE

Reviewed by: M Patrick
STL Project Manager

Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
ALBUQUERQUE, NEW MEXICO

Project Name: SPARTON TECHNOLOGY, INC.
Project Number: 807397
Project Location: AGWMP-3Q98
Accession Number: 808003

Project Manager: KIMBERLY D. MCNEILL
Sampled By: N/S

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807397-01			Lab ID: 001		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	0.1	0.1	N2W110	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.6	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.5	0.1	NONE	
Comments:					
Client ID: 807397-02			Lab ID: 002		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W110	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.6	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.6	0.1	NONE	
Comments:					
Client ID: 807397-03			Lab ID: 003		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W110	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	4.9	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	4.9	0.1	NONE	
Comments:					
Client ID: 807397-04			Lab ID: 004		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W110	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.2	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.2	0.1	NONE	
Comments:					
Client ID: 807397-05			Lab ID: 005		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W110	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3	0.1	NONE	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
807397-01	001	WATER	31-JUL-98 1356	01-AUG-98
807397-02	002	WATER	31-JUL-98 1257	01-AUG-98
807397-03	003	WATER	31-JUL-98 1450	01-AUG-98
807397-04	004	WATER	31-JUL-98 1730	01-AUG-98
807397-05	005	WATER	30-JUL-98 1437	01-AUG-98

"Method Report Summary"

Accession Number: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
807397-01	NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	0.1
	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.5
807397-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.6
807397-03	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	4.9
	NITRATE, NITROGEN (353.2-354.1)	MG/L	4.9
807397-04	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.2
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.2
807397-05	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3

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Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

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"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W110	N3W62B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	01-AUG-98	03-AUG-98
Prep. Date:	01-AUG-98	03-AUG-98

Sample Duplication

Sample Dup:	808003-1	808001-1
Rept Limit:	<0.1	<0.1
Sample Result:	0.1	0.22
Dup Result:	0.1	0.21
Sample RPD:	N/C	0.01 G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	808003-1	808001-1
Rept Limit:	<0.1	<0.1
Sample Result:	0.1	0.22
Spiked Result:	0.3	1.18
Spike Added:	0.2	1.00
% Recovery:	100	96
% Rec Limits:	70-131	71-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.89
True Result:	0.20	2.00
% Recovery:	100	95
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = REPORTING LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993.
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN WH = WENDY HAGGARD
ED = ESTHER DANTIN CR = CYNTHIA ROBERTS AB = AMY BRADLEY
BE = BETTY EVERTON PLD = PAULA L. DOUGHTY JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER

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Analysis Report

Analysis: Group of Single Wetchem

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807397-01			Lab ID: 001		
CHLORIDE (4500-CL B)	MG/L	22	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	850	1	CDW015	
HEXAVALENT CHROME (7196A)	MG/L	0.07	0.01	HCW019	
SULFATE (375.4)	MG/L	81	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	63	2.5	TAW43Q	+
Comments:					
Client ID: 807397-02			Lab ID: 002		
CHLORIDE (4500-CL B)	MG/L	17	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	610	1	CDW015	
HEXAVALENT CHROME (7196A)	MG/L	0.04	0.01	HCW019	
SULFATE (375.4)	MG/L	88	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	1.2	0.5	TAW43Q	
Comments:					
Client ID: 807397-03			Lab ID: 003		
CHLORIDE (4500-CL B)	MG/L	16	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	680	1	CDW015	
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	
SULFATE (375.4)	MG/L	69	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.7	0.5	TAW43Q	
Comments:					
Client ID: 807397-04			Lab ID: 004		
CHLORIDE (4500-CL B)	MG/L	ND	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	2	1	CDW015	
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	
SULFATE (375.4)	MG/L	ND	10	SEW096	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW43Q	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807397-05			Lab ID: 005		
CHLORIDE (4500-CL B)	MG/L	ND	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW015	
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	R4
SULFATE (375.4)	MG/L	ND	10	SEW096	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW43Q	

Comments:

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
807397-01	001	WATER	31-JUL-98 1356	01-AUG-98
807397-02	002	WATER	31-JUL-98 1257	01-AUG-98
807397-03	003	WATER	31-JUL-98 1450	01-AUG-98
807397-04	004	WATER	31-JUL-98 1730	01-AUG-98
807397-05	005	WATER	30-JUL-98 1437	01-AUG-98

"Method Report Summary"

Accession Number: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
807397-01	CHLORIDE (4500-CL B)	MG/L	22
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	850
	HEXAVALENT CHROME (7196A)	MG/L	0.07
	SULFATE (375.4)	MG/L	81
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	63
807397-02	CHLORIDE (4500-CL B)	MG/L	17
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	610
	HEXAVALENT CHROME (7196A)	MG/L	0.04
	SULFATE (375.4)	MG/L	88
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	1.2
807397-03	CHLORIDE (4500-CL B)	MG/L	16
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	680
	SULFATE (375.4)	MG/L	69
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.7
807397-04	CONDUCTIVITY (120.1/2510 B)	UMH/CM	2
807397-05	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3

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Quality Control Report

Analysis: Group of Single Wetchem

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	HEX,CR.	SULFATE	TKN AUTO	SULFATE
Batch Id:	CIW086	CDW015	HCW019	SEW095	TAW43Q	SEW096
Blank Result:	<1	<1	<0.01	<10	<0.5	<10
Anal. Method:	4500-CL B	120.1	7196A	375.4	351.2	375.4
Prep. Method:	N/A	N/A	N/A	N/A	N/A	N/A
Analysis Date:	03-AUG-98	03-AUG-98	31-JUL-98	03-AUG-98	04-AUG-98	03-AUG-98
Prep. Date:	03-AUG-98	03-AUG-98	31-JUL-98	03-AUG-98	03-AUG-98	03-AUG-98
Sample Duplication						
Sample Dup:	808001-1	807479-1	807599-1	807572-1	808001-1	808003-4
Rept Limit:	<1	<1	<0.01	<10	<0.5	<10
Sample Result:	<1	53700	<0.01	<10	0.98	<10
Dup Result:	<1	53700	<0.01	<10	0.95	<10
Sample RPD:	N/C	0	N/C	N/C	0.03G	N/C
Max RPD:	1	2	0.01	10	0.5	10
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	808001-1	N/A	807599-1	807572-1	808001-1	808003-4
Rept Limit:	<1	N/A	<0.01	<10	<0.5	<10
Sample Result:	<1		<0.01	<10	0.98	<10
Spiked Result:	54.6		0.54	13	5.08	20
Spike Added:	55.0		0.50	20	4.00	20
% Recovery:	99		108	65	103	100
% Rec Limits:	90-111		76-116	56-154	62-123	56-154
Dry Weight%	N/A		N/A	N/A	N/A	N/A
ICV						
ICV Result:	92.6		0.65	19.44	10.74	19.4
True Result:	100.0		0.60	20.00	10.00	20.0
% Recovery:	93		108	97	107	97
% Rec Limits:	90-110		90-110	90-110	90-110	90-110
LCS						
LCS Result:		1423			10.40	
True Result:		1412			10.00	
% Recovery:		101			104	
% Rec Limits:		98-102			69-120	

"Quality Control Comments"

Batch Id:	Comments:
HCW019	808003-1,2,3,4,5 was added to the batch on 1-Aug-98.

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = REPORTING LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN WH = WENDY HAGGARD
ED = ESTHER DANTIN CR = CYNTHIA ROBERTS AB = AMY BRADLEY
BE = BETTY EVERTON PLD = PAULA L. DOUGHTY JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	METALS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807397-01			Lab ID:001		
BORON (200.7)	MG/L	0.22	0.09	O0W208	
CHROMIUM (200.7)	MG/L	0.38	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.56	0.01	G0W208	
SODIUM (200.7)	MG/L	47	0.2	10W208	
NICKEL (200.7)	MG/L	0.05	0.02	E0W208	
Comments:					
Client ID: 807397-02			Lab ID:002		
BORON (200.7)	MG/L	0.11	0.09	O0W208	
CHROMIUM (200.7)	MG/L	0.06	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.57	0.01	G0W208	
SODIUM (200.7)	MG/L	44	0.2	10W208	
NICKEL (200.7)	MG/L	0.05	0.02	E0W208	
Comments:					
Client ID: 807397-03			Lab ID:003		
BORON (200.7)	MG/L	0.18	0.09	O0W208	
CHROMIUM (200.7)	MG/L	0.02	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.72	0.01	G0W208	
SODIUM (200.7)	MG/L	47	0.2	10W208	
NICKEL (200.7)	MG/L	0.02	0.02	E0W208	
Comments:					
Client ID: 807397-04			Lab ID:004		
BORON (200.7)	MG/L	ND	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	ND	0.01	G0W208	
SODIUM (200.7)	MG/L	ND	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					
Client ID: 807397-05			Lab ID:005		
BORON (200.7)	MG/L	ND	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	ND	0.01	G0W208	
SODIUM (200.7)	MG/L	ND	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					

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"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
807397-01	001	WATER	31-JUL-98 1356	01-AUG-98
807397-02	002	WATER	31-JUL-98 1257	01-AUG-98
807397-03	003	WATER	31-JUL-98 1450	01-AUG-98
807397-04	004	WATER	31-JUL-98 1730	01-AUG-98
807397-05	005	WATER	30-JUL-98 1437	01-AUG-98

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"Method Report Summary"

Accession Number: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
807397-01	BORON (200.7)	MG/L	0.22
	CHROMIUM (200.7)	MG/L	0.38
	MANGANESE (200.7)	MG/L	0.56
	SODIUM (200.7)	MG/L	47
	NICKEL (200.7)	MG/L	0.05
807397-02	BORON (200.7)	MG/L	0.11
	CHROMIUM (200.7)	MG/L	0.06
	MANGANESE (200.7)	MG/L	0.57
	SODIUM (200.7)	MG/L	44
	NICKEL (200.7)	MG/L	0.05
807397-03	BORON (200.7)	MG/L	0.18
	CHROMIUM (200.7)	MG/L	0.02
	MANGANESE (200.7)	MG/L	0.72
	SODIUM (200.7)	MG/L	47
	NICKEL (200.7)	MG/L	0.02

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Quality Control Report

Analysis: Group of Single Metals

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	METALS

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W208	H0W208	G0W208	10W208	E0W208
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	06-AUG-98	06-AUG-98	06-AUG-98	06-AUG-98	06-AUG-98
Prep. Date:	05-AUG-98	05-AUG-98	05-AUG-98	05-AUG-98	05-AUG-98
Sample Duplication					
Sample Dup:	807619-1	807619-1	807619-1	807619-1	807619-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	3.9	1.6	1.6	340	1.6
Dup Result:	3.9	1.6	1.6	340	1.6
Sample RPD:	0	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	807619-1	807619-1	807619-1	807619-1	807619-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.1	<0.01	<0.01	310	<0.02
Spiked Result:	3.9	1.6	1.6	340	1.6
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	90	80	80	150 F	80
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.1	5.0	5.0	25	5.1
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	102	100	100	100	102
% Rec Limits:	95-105	95-105	95-105	95-105	95-105
LCS					
LCS Result:	2.0	2.0	2.0	20	2.0
True Result:	2.0	2.0	2.0	20	2.0
% Recovery:	100	100	100	100	100
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

--- Data Qualifiers for Metals QC Report ----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW THE REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X THE REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE AEN REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= THE RELATIVE PERCENT DIFFERENCE (RPD) EXCEEDS THE AEN CONTROL LIMIT AND IS "OUT OF CONTROL; DUE TO A NON-HOMOGENEOUS SAMPLE MATRIX.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: ALL RESULTS REPORTED UNDER 'SAMPLE DUPLICATION' ARE THE MS/MSD.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

MTD = MIKE DURMAN
CH = CHRIS HIGH
KN = KAREN NALL
GSP = GARY ST PERE
JL = JANET LECLEAR
LT = LISA TORRES

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 31-JUL-98 1356
Client Sample Id: 807397-01 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 002 Sample Date/Time: 31-JUL-98 1257
Client Sample Id: 807397-02 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	BT		

Comments:

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 31-JUL-98 1450
Client Sample Id: 807397-03 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	BT		

Comments:

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 31-JUL-98 1730
Client Sample Id: 807397-04 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005 Sample Date/Time: 30-JUL-98 1437
Client Sample Id: 807397-05 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	BT		

Comments:

"Method Report Summary"

Accession Number: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
807397-01	TOTAL ORGANIC CARBON	MG/L	2
807397-02	TOTAL ORGANIC CARBON	MG/L	2

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	BT	

Comments:

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water LCS
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

RS Date Analyzed: 03-AUG-98 RS Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	Rec Lmts
TOC	6.7	<1	6.9	103	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

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"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 808003

MS Date Analyzed: 03-AUG-98
MSD Date Analyzed: 03-AUG-98

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	8.6	128	8.6	128	0	30	51-135

Surrogates:

Comments:

Notes:
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MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

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N/A = NOT APPLICABLE
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UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED
E = EXCEED THE CALIBRATION CURVE; THEREFORE, RESULTS ARE ESTIMATED.

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ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

RSK 175
SAMPLE PREPARATION AND CALCULATIONS FOR DISSOLVED GAS ANALYSIS IN WATER SAMPLES USING A GC HEADSPACE EQUILIBRATION TECHNIQUE, RSK SOP-175, ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, USEPA, AUGUST 11, 1994.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

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RW = ROBERT WOLFE
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DK = DARLENE KINCHEN
BT = BECKY TREMMEL
HAH = HOLLIE HOFFMAN

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001 Sample Date/Time: 31-JUL-98 1356
Client Sample Id: 807397-01 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 06-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.92	0.04	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002 Sample Date/Time: 31-JUL-98 1257
Client Sample Id: 807397-02 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 06-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.19	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 31-JUL-98 1450
Client Sample Id: 807397-03 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 06-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.05	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 004 Sample Date/Time: 31-JUL-98 1730
Client Sample Id: 807397-04 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 06-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005 Sample Date/Time: 30-JUL-98 1437
Client Sample Id: 807397-05 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 06-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	PLD		

Comments:

"Method Report Summary"

Accession Number: 808003
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807397
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
807397-01	TOTAL ORGANIC HALIDES	MG/L	0.92
807397-02	TOTAL ORGANIC HALIDES	MG/L	0.19
807397-03	TOTAL ORGANIC HALIDES	MG/L	0.05

SEVERN TRENT LABORATORIES 11 East Olive Rd Pensacola, FL 32514 (850) 474-1001

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

J4	(For positive results) Temperature limits exceeded (≤2°C or ≥ 6°C)
J6	(For positive results) Surrogate %R is > upper control limit (UCL) or < lower control limit (LCL)
J (AFCEE description)	The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects) Temperature limits exceeded (≤2°C or ≥ 6°C)
R2	Improper preservation, no preservative present in sample upon receipt
R3	Improper preservation, incorrect preservative present in sample upon receipt
R4	Holding time exceeded
R5	Collection requirements not met, improper container used for sample
R6	Surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects and nondetects
R (AFCEE description)	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F	< laboratory or AFCEE RL and > laboratory MDL
F (AFCEE description)	The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2	≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)	The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)	The analyte was found in the associated blank, as well as in the sample
@	Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+	Elevated reporting limit due to dilution into calibration range
*	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
#	Elevated reporting limit due to insufficient sample size
D	Diluted out
J5	The reported value is quantitated as a TIC; therefore, it is estimated
A2	Surrogate %R is > UCL (upper control limit) and analyte is not detected. No corrective action required
M	A matrix effect was present (sample was analyzed twice to confirm or chromatogram had interfering peaks)
S	Incorrect sample amount was submitted to the laboratory for analysis

ND = Not Detected N/S = Not Submitted N/A = Not Applicable
IDL = Laboratory Instrument Detection Limit MDL = Laboratory Method Detection Limit
RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)

STL-Pensacola uses the most current promulgated methods contained in the reference manuals.

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative)

Florida Projects Inorganic/Organic

Y1	Improper preservation, no preservative present in sample upon receipt
Y2	Improper preservation, incorrect preservative present in sample upon receipt
Y3	Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate
Q	Sample held beyond the accepted holding time
I	The reported value is < Laboratory RL and > laboratory MDL
U1	The reported value is ≤ Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)	Indicates the compound was analyzed for but not detected
T	The reported value is < Laboratory MDL (value shall not be used for statistical analysis)
V	The analyte was detected in both the sample and the associated method blank
J1	Surrogate recovery limits have been exceeded
J2	The sample matrix interfered with the ability to make any accurate determinations
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)	Estimated value; not accurate

ICR Projects Inorganic/Organic

A1	Acceptable
R6	Rejected

Examples: ICR Flags

R6 = Laboratory extracted the sample but the refrigerator malfunctioned so the extract became warm and client was notified
R6 = Sample arrived in laboratory in good condition; however, the laboratory did not analyze it within EPA's established holding time limit

CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	808003
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807397
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW045
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 06-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: TXW045
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 808003-4

MS Date Analyzed: 06-AUG-98
MSD Date Analyzed: 06-AUG-98

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.100	<0.01	0.104	104	0.097	97	7	20	75-125

Surrogates:

Comments:

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DK = DARLENE KINCHEN
BT = BECKY TREMMEL
HAH = HOLLIE HOFFMAN

Severn Trent Laboratories of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: S08003 Date Received: 01-Aug-98

1. Was there a Chain of Custody? (Yes) No+
2. Was Chain of Custody properly filled out and relinquished? (Yes) No+
3. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP 1055) (Yes) No+ N/A
4. Were all samples properly labeled and identified? (Yes) No+
5. Did samples require splitting? Yes+ (No)
   Req By: PM Client Other♦
6. Were samples received in proper containers for analysis requested? (Yes) No+
7. Were all sample containers received intact? (Yes) No+
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)+* (Yes) No+ N/A
9. Is there sufficient volume for analysis requested? (Yes) No+
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes (No+)
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control Yes+ No (N/A)
12. If sent, were matrix spike bottles returned? Yes No+ (N/A)
13. Was Project Manager notified of problems? (initials: PKE) (Yes) No+ N/A

Airbill Number(s): See attached

Shipped By: FEDEX

Cooler Number(s): client cooler

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 2.0°C - CCK 2

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

10. Sample S07397-05 was received out of hold time for HXCR. PKE 8/11/98.
13. Next business day. PKE 8/11/98.

8-3-98: Held over for Monday delivery. Temp Checked @ 5.5°C (CCK1) TOX+TOC only. JO

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PKE Date: 8/11/98 Logged By: PKE Date: 8/11/98

+ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

AMERICAN ENVIRONMENTAL NETWORK
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 7/31/98 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: AMERICAN ENVIRONMENTAL NETWORK
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

808003

CLIENT PROJECT MANAGER:

Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr+6	B, Mn, Cr3, Ni, Na	TOX	TOC	Gen Chemistry: EC, Cl, SO4	TKN	NNO3	Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
807397-01	7/31	1356	AQ	1					X	X	X	X	X	X	X																		
-02		1257		2					X	X	X	X	X	X	X																		
-03		1450		3					X	X	X	X	X	X	X																		
-04		1730		4					X	X	X	X	X	X	X																		
-05	7/30	1437		5					X	X	X	X	X	X	X																		

PROJECT INFORMATION

PROJECT NUMBER: 807397
PROJECT NAME: Sparton Technology
QC LEVEL: STD. IV
QC REQUIRED: MS MSD BLANK
TAT: STANDARD RUSH!

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

DUE DATE: 8/14
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
CONNECTICUT	
ILLINOIS	
MASSACHUSETTS	
PENSACOLA	X
PORTLAND	
PHOENIX	
N.CAROLINA	

RELINQUISHED BY: 1.
Signature: Francine Jouve Time: 1730
Printed Name: Francine Brivio Date: 7/31/98
Albuquerque

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

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time: 0945
Printed Name: RUSS PERMAN Date: 8/1/98
Company: STL-FL

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/31/98 PAGE: 1 OF 1

AEN(NM) Accession: 801391

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO) TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO4, pH	TKN	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Na	Cr+6	NUMBER OF CONTAINERS
✓ MW16-	7/31/98	1356	AQ	01								X	X		X									X	X	X					X	X	11
✓ MW21	"	1257	"	02								X	X		X									X	X	X					X	X	10
✓ MW22	"	1450	"	03								X	X		X									X	X	X					X	X	11
✓ TB	7/30/98	17:30	"	04								X	X		X									X	X	X					X	X	10
✓ ~~MW~~ P22	"	1437	"	05								X	X		X									X	X	X					X	X	11
✓ ~~MW42~~	"		"													X									(X)								2
✓ ~~MW43~~	"		"													X									(X)								2
✓ ~~MW32~~	"		"													X									(X)								2
✓ ~~MW70~~	"		"													X									(X)								2

PROJECT INFORMATION

PROJ. NO.: 073198-A
PROJ. NAME: AGWMP-3Q 98
P.O. NO.: 57218-1-06
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS	63
CUSTODY SEALS	Y/N (N/A)
RECEIVED INTACT	YES
BLUE ICE/ICE	ICE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1710
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/31/98
Company:	Company: SPARTON TECH.

RECEIVED BY: 1	RECEIVED BY (LAB): 2
Signature: Time:	Signature: Ramona Lucero Time: 1715
Printed Name: Date:	Printed Name: Ramona Lucero Date: 7/31/98
Company:	American Environmental Network (NM) Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/31/98 PAGE: 1 OF 1

AEN(NM) Accession #: 807397

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PROJECT MANAGER: JOHN ROSE

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FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO4, pH	TKN	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Na, Cr+6		NUMBER OF CONTAINERS
✓ MW16-	7/31/98	1356	AQ	01								X	X		X									X	X	X					X	X	11
✓ MW21	"	1257	"	02								X	X		X									X	X	X					X	X	10
✓ MW22	"	1450	"	03								X	X		X									X	X	X					X	X	11
✓ TB	7/30/98	17:30	"	04								X	X		X									X	X	X					X	X	10
✓ ~~MW~~ P22	"	1437	"	05								X	X		X									X	X	X					X	X	11
✓ ~~MW42~~	"		"													X									(X)								2
✓ ~~MW43~~	"		"													X									(X)								2
✓ ~~MW32~~	"		"													X									(X)								2
✓ ~~MW70~~	"		"													X								(X)									2

PROJECT INFORMATION

PROJ. NO.: 073198-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS	55
CUSTODY SEALS	Y/N/(NA)
RECEIVED INTACT	YES
BLUE ICE/ICE	2.6C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time:	Signature: Time: 1710
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/31/98
Company:	Company: SPARTON TECH.

RECEIVED BY:	RECEIVED BY: (LAB) 2.
Signature: Time:	Signature: Time: 1715
Printed Name: Date:	Printed Name: Francine Montoya Date: 7/31/98
Company:	American Enviromental Network (NM), Inc.

MW = 9/14/19/20

PINNACLE LABORATORIES

AEN I.D. 807386

August 13, 1998

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. NW
RIO RANCHO, NM 87124

Project Name AGWMP-3Q98
Project Number 073098-A

Attention: JOHN ROSE

On 7/30/98 Pinnacle Laboratories, Inc., formerly American Environmental Network (NM), 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.

EPA methods 150.1 and 8021 were performed by Pinnacle Laboratories Inc., Albuquerque, NM.

All other parameters were performed by STL, Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107 Phone: 505-344-3777, Fax: 505-344-4413

PINNACLE LABORATORIES

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807386
PROJECT #	: 073098-A	DATE RECEIVED	: 7/30/98
PROJECT NAME	: AGWMP-3Q98	REPORT DATE	: 8/13/98

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW9	AQUEOUS	7/30/98
02	MW19	AQUEOUS	7/30/98
03	MW-51	AQUEOUS	7/30/98
04	MW-20	AQUEOUS	7/30/98
05	MW14	AQUEOUS	7/30/98
06	TB	AQUEOUS	7/20/98

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PINNACLE LABORATORIES

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807386
PROJECT #	: 073098-A	DATE RECEIVED	: 7/30/98
PROJECT NAME	: AGWMP-3Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW9	AQUEOUS	7/30/98	7/31/98
02	MW19	AQUEOUS	7/30/98	7/31/98
04	MW20	AQUEOUS	7/30/98	7/31/98

PARAMETER	UNITS	01	02	04
PH (150.1)	UNITS	7.21	7.16	7.31

CHEMIST NOTES:
N/A

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PINNACLE LABORATORIES

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807386
PROJECT #	: 073098-A	DATE RECEIVED	: 7/30/98
PROJECT NAME	: AGWMP-3Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
05	MW14	AQUEOUS	7/30/98	7/31/98
06	TB	AQUEOUS	7/20/98	7/31/98

PARAMETER	UNITS	05	06
PH (150.1)	UNITS	7.53	8.38

CHEMIST NOTES:
N/A

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PINNACLE LABORATORIES

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 807386
PROJECT #	: 073098-A	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AGWMP-3Q98		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	807386-04	7.31	7.42	1.5

CHEMIST NOTES:
N/A

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

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

PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 807386
PROJECT # : 073098-A
PROJECT NAME : AGWMP-3Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW9	AQUEOUS	7/30/98	NA	7/31/98	1
02	MW19	AQUEOUS	7/30/98	NA	7/31/98	1
04	MW-20	AQUEOUS	7/30/98	NA	7/31/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	04
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**2.2**	< 0.5	< 0.5
CHLOROMETHANE	1.0	**UG/L**	< 1.0	**3.3**	**4.9**
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	**1.8**	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**30 (D20)**	**1.4**	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	**140 (D20)**	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**1.9**	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	**29 (D20)**	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	**0.5**	< 0.2	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**370 (D20)**	**18**	**3.1**
TRICHLOROFLUOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			105	106	110
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D20) = 20X DILUTION, ANALYZED 8-4-98.

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PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 807386
PROJECT # : 073098-A
PROJECT NAME : AGWMP-3Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
05	MW14	AQUEOUS	7/30/98	NA	7/31/98	1
06	TB	AQUEOUS	7/20/98	NA	8/4/98	1
07	REF BLK 7-20-98	AQUEOUS	7/20/98	NA	8/5/98	1

PARAMETER	DET. LIMIT	UNITS	05	06	07
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**2.6**	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	**0.6**	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**27 (D20)**	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**1.8**	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	**5.4**	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	**1.1**	< 0.2	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**450* (D20)**	**0.3**	< 0.3
TRICHLOROFLUOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			102	96	105
SURROGATE LIMITS	(73 - 117)				
TRIFLUOROTOLUENE			105	N/A	N/A
SURROGATE LIMITS	(69 - 117)				

CHEMIST NOTES:
*** REPORTED FROM ALTERNATE COLUMN.**
(D20) = 20X DILUTION, ANALYZED 8-4-98.

THE TRIP BLANK HAD A HIT FOR TCE AT 0.3UG/L. A REFRIGERATOR BLANK WAS PREPARED AT THE SAME TIME AS THE TRIP BLANK, AND RETAINED BY THE LABORATORY. THIS REFRIGERATOR BLANK WAS ANALYZED AND WAS CLEAN.

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PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 073198B	AEN I.D.	: 807386
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073098-A	DATE ANALYZED	: 7/31/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		116
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

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PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 080398	AEN I.D.	: 807386
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073098-A	DATE ANALYZED	: 8/3/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		107
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 080498	AEN I.D.	: 807386
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073098-A	DATE ANALYZED	: 8/4/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		102
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

GAS CHROMOTOGRAPHY - QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
MSMSD #	: 807383-01	AEN I.D.	: 807386
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 073098-A	DATE ANALYZED	: 7/31/98
PROJECT NAME	: AGWMP-3Q98	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	9.8	98	8.6	86	13	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	9.7	97	8.7	87	11	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	10.1	101	8.9	89	13	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

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Fax: (850) 474-4789

SIGNATURE PAGE

Reviewed by: M Patrick
STL Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON TECHNOLOGY, INC.
Project Number:	807386
Project Location:	AGWMP-3Q98
Accession Number:	808001
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

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Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807386-01			Lab ID: 001		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W109	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.2	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.2	0.1	NONE	
Comments:					
Client ID: 807386-02			Lab ID: 002		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W109	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7	0.1	NONE	
Comments:					
Client ID: 807386-04			Lab ID: 003		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W109	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.7	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.7	0.1	NONE	
Comments:					
Client ID: 807386-05			Lab ID: 004		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W109	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	19	0.5	N3W62B	+
NITRATE, NITROGEN (353.2-354.1)	MG/L	19	0.1	NONE	
Comments:					
Client ID: 807386-06			Lab ID: 005		
NITRITE, NITROGEN(354.1/4500-NO2B)	MG/L	ND	0.1	N2W109	R4
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.4	0.1	N3W62B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.4	0.1	NONE	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
807386-01	001	WATER	30-JUL-98 1230	01-AUG-98
807386-02	002	WATER	30-JUL-98 1020	01-AUG-98
807386-04	003	WATER	30-JUL-98 1040	01-AUG-98
807386-05	004	WATER	30-JUL-98 1400	01-AUG-98
807386-06	005	WATER	20-JUL-98 1520	01-AUG-98

"Method Report Summary"

Accession Number: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
807386-01	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.2
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.2
807386-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7
807386-04	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.7
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.7
807386-05	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	19
	NITRATE, NITROGEN (353.2-354.1)	MG/L	19
807386-06	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.4
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.4

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Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W109	N3W62B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	30-JUL-98	03-AUG-98
Prep. Date:	30-JUL-98	03-AUG-98

Sample Duplication

Sample Dup:	807572-1	808001-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.22
Dup Result:	<0.1	0.21
Sample RPD:	N/C	0.01 G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	807572-1	808001-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.22
Spiked Result:	0.21	1.18
Spike Added:	0.20	1.00
% Recovery:	105	96
% Rec Limits:	70-131	71-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.89
True Result:	0.20	2.00
% Recovery:	100	95
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

"Quality Control Comments"

Batch Id:	Comments:
N2W109	807616-2 was added to the batch on 31-Jul-98.
N2W109	808001-1,2,3,4,5 & 808007-1,2,3 were added to the batch
N2W109	on 1-Aug-98.

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
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I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
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A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = REPORTING LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
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METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN WH = WENDY HAGGARD
ED = ESTHER DANTIN CR = CYNTHIA ROBERTS AB = AMY BRADLEY
BE = BETTY EVERTON PLD = PAULA L. DOUGHTY JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER

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Analysis Report

Analysis: Group of Single Wetchem

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807386-01			Lab ID: 001		
CHLORIDE (4500-CL B)	MG/L	ND	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	610	1	CDW015	
SULFATE (375.4)	MG/L	83	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	1.0	0.5	TAW43Q	
Comments:					
Client ID: 807386-02			Lab ID: 002		
CHLORIDE (4500-CL B)	MG/L	21	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW015	
SULFATE (375.4)	MG/L	120	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW43Q	
Comments:					
Client ID: 807386-04			Lab ID: 003		
CHLORIDE (4500-CL B)	MG/L	18	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	630	1	CDW015	
SULFATE (375.4)	MG/L	91	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.5	0.5	TAW43Q	
Comments:					
Client ID: 807386-05			Lab ID: 004		
CHLORIDE (4500-CL B)	MG/L	31	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	790	1	CDW015	
SULFATE (375.4)	MG/L	160	50	SEW095	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW43Q	
Comments:					
Client ID: 807386-06			Lab ID: 005		
CHLORIDE (4500-CL B)	MG/L	5	1	CIW086	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW015	
SULFATE (375.4)	MG/L	ND	10	SEW095	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW43Q	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
807386-01	001	WATER	30-JUL-98 1230	01-AUG-98
807386-02	002	WATER	30-JUL-98 1020	01-AUG-98
807386-04	003	WATER	30-JUL-98 1040	01-AUG-98
807386-05	004	WATER	30-JUL-98 1400	01-AUG-98
807386-06	005	WATER	20-JUL-98 1520	01-AUG-98

"Method Report Summary"

Accession Number: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
807386-01	CONDUCTIVITY (120.1/2510 B)	UMH/CM	610
	SULFATE (375.4)	MG/L	83
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	1.0
807386-02	CHLORIDE (4500-CL B)	MG/L	21
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
	SULFATE (375.4)	MG/L	120
807386-04	CHLORIDE (4500-CL B)	MG/L	18
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	630
	SULFATE (375.4)	MG/L	91
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.5
807386-05	CHLORIDE (4500-CL B)	MG/L	31
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	790
	SULFATE (375.4)	MG/L	160
807386-06	CHLORIDE (4500-CL B)	MG/L	5
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3

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Quality Control Report

Analysis: Group of Single Wetchem

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	SULFATE	TKN AUTO
Batch Id:	CIW086	CDW015	SEW095	TAW43Q
Blank Result:	<1	<1	<10	<0.5
Anal. Method:	4500-CL B	120.1	375.4	351.2
Prep. Method:	N/A	N/A	N/A	N/A
Analysis Date:	03-AUG-98	03-AUG-98	03-AUG-98	04-AUG-98
Prep. Date:	03-AUG-98	03-AUG-98	03-AUG-98	03-AUG-98
Sample Duplication				
Sample Dup:	808001-1	807479-1	807572-1	808001-1
Rept Limit:	<1	<1	<10	<0.5
Sample Result:	<1	53700	<10	0.98
Dup Result:	<1	53700	<10	0.95
Sample RPD:	N/C	0	N/C	0.03G
Max RPD:	1	2	10	0.5
Dry Weight%	N/A	N/A	N/A	N/A
Matrix Spike				
Sample Spiked:	808001-1	N/A	807572-1	808001-1
Rept Limit:	<1	N/A	<10	<0.5
Sample Result:	<1		<10	0.98
Spiked Result:	54.6		13	5.08
Spike Added:	55.0		20	4.00
% Recovery:	99		65	103
% Rec Limits:	90-111		56-154	62-123
Dry Weight%	N/A		N/A	N/A
ICV				
ICV Result:	92.6		19.44	10.74
True Result:	100.0		20.00	10.00
% Recovery:	93		97	107
% Rec Limits:	90-110		90-110	90-110
LCS				
LCS Result:		1423		10.40
True Result:		1412		10.00
% Recovery:		101		104
% Rec Limits:		98-102		69-120

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RH = RICKY HAGENDORFER

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	METALS

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807386-01			Lab ID:001		
BORON (200.7)	MG/L	1.4	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.04	0.01	G0W208	
SODIUM (200.7)	MG/L	64	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					
Client ID: 807386-02			Lab ID:002		
BORON (200.7)	MG/L	0.16	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.01	0.01	G0W208	
SODIUM (200.7)	MG/L	55	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					
Client ID: 807386-04			Lab ID:003		
BORON (200.7)	MG/L	0.10	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	0.67	0.01	G0W208	
SODIUM (200.7)	MG/L	43	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					
Client ID: 807386-05			Lab ID:004		
BORON (200.7)	MG/L	0.80	0.09	O0W208	
CHROMIUM (200.7)	MG/L	0.57	0.01	H0W208	
MANGANESE (200.7)	MG/L	ND	0.01	G0W208	
SODIUM (200.7)	MG/L	58	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					
Client ID: 807386-06			Lab ID:005		
BORON (200.7)	MG/L	ND	0.09	O0W208	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W208	
MANGANESE (200.7)	MG/L	ND	0.01	G0W208	
SODIUM (200.7)	MG/L	ND	0.2	10W208	
NICKEL (200.7)	MG/L	ND	0.02	E0W208	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
807386-01	001	WATER	30-JUL-98 1230	01-AUG-98
807386-02	002	WATER	30-JUL-98 1020	01-AUG-98
807386-04	003	WATER	30-JUL-98 1040	01-AUG-98
807386-05	004	WATER	30-JUL-98 1400	01-AUG-98
807386-06	005	WATER	20-JUL-98 1520	01-AUG-98

"Method Report Summary"

Accession Number: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
807386-01	BORON (200.7)	MG/L	1.4
	MANGANESE (200.7)	MG/L	0.04
	SODIUM (200.7)	MG/L	64
807386-02	BORON (200.7)	MG/L	0.16
	MANGANESE (200.7)	MG/L	0.01
	SODIUM (200.7)	MG/L	55
807386-04	BORON (200.7)	MG/L	0.10
	MANGANESE (200.7)	MG/L	0.67
	SODIUM (200.7)	MG/L	43
807386-05	BORON (200.7)	MG/L	0.80
	CHROMIUM (200.7)	MG/L	0.57
	SODIUM (200.7)	MG/L	58

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W208	H0W208	G0W208	10W208	E0W208
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	06-AUG-98	06-AUG-98	06-AUG-98	06-AUG-98	06-AUG-98
Prep. Date:	05-AUG-98	05-AUG-98	05-AUG-98	05-AUG-98	05-AUG-98
Sample Duplication					
Sample Dup:	807619-1	807619-1	807619-1	807619-1	807619-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	3.9	1.6	1.6	340	1.6
Dup Result:	3.9	1.6	1.6	340	1.6
Sample RPD:	0	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	807619-1	807619-1	807619-1	807619-1	807619-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.1	<0.01	<0.01	310	<0.02
Spiked Result:	3.9	1.6	1.6	340	1.6
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	90	80	80	150 F	80
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.1	5.0	5.0	25	5.1
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	102	100	100	100	102
% Rec Limits:	95-105	95-105	95-105	95-105	95-105
LCS					
LCS Result:	2.0	2.0	2.0	20	2.0
True Result:	2.0	2.0	2.0	20	2.0
% Recovery:	100	100	100	100	100
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

--- Data Qualifiers for Metals QC Report ----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW THE REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X THE REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE AEN REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= THE RELATIVE PERCENT DIFFERENCE (RPD) EXCEEDS THE AEN CONTROL LIMIT AND IS "OUT OF CONTROL; DUE TO A NON-HOMOGENEOUS SAMPLE MATRIX.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: ALL RESULTS REPORTED UNDER 'SAMPLE DUPLICATION' ARE THE MS/MSD.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

MTD = MIKE DURMAN
CH = CHRIS HIGH
KN = KAREN NALL
GSP = GARY ST PERE
JL = JANET LECLEAR
LT = LISA TORRES

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 30-JUL-98 1230
Client Sample Id: 807386-01 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	3	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 002
Client Sample Id: 807386-02

Sample Date/Time: 30-JUL-98 1020
Received Date: 01-AUG-98

Batch: TOW064
Blank: A

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 30-JUL-98 1040
Client Sample Id: 807386-04 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	3	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 30-JUL-98 1400
Client Sample Id: 807386-05 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	BT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005 Sample Date/Time: 20-JUL-98 1520
Client Sample Id: 807386-06 Received Date: 01-AUG-98

Batch: TOW064 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	BT		

Comments:

"Method Report Summary"

Accession Number: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
807386-01	TOTAL ORGANIC CARBON	MG/L	3
807386-02	TOTAL ORGANIC CARBON	MG/L	2
807386-04	TOTAL ORGANIC CARBON	MG/L	3
807386-05	TOTAL ORGANIC CARBON	MG/L	2

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Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001 Sample Date/Time: 30-JUL-98 1230
Client Sample Id: 807386-01 Received Date: 01-AUG-98

Batch: TXW044 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 05-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.29	0.05	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002 Sample Date/Time: 30-JUL-98 1020
Client Sample Id: 807386-02 Received Date: 01-AUG-98

Batch: TXW044 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 04-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.02	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003
Client Sample Id: 807386-04
Sample Date/Time: 30-JUL-98 1040
Received Date: 01-AUG-98

Batch: TXW044
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 04-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 004 Sample Date/Time: 30-JUL-98 1400
Client Sample Id: 807386-05 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.24	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005 Sample Date/Time: 20-JUL-98 1520
Client Sample Id: 807386-06 Received Date: 01-AUG-98

Batch: TXW045 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-AUG-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	PLD		

Comments:

"Method Report Summary"

Accession Number: 808001
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY, INC.
Project Location: AGWMP-3Q98
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
807386-01	TOTAL ORGANIC HALIDES	MG/L	0.29
807386-02	TOTAL ORGANIC HALIDES	MG/L	0.02
807386-04	TOTAL ORGANIC HALIDES	MG/L	0.01
807386-05	TOTAL ORGANIC HALIDES	MG/L	0.24

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Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

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"QC Report"

Title: Water Blank
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	BT	

Comments:

"QC Report"

Title: Water LCS
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

RS Date Analyzed: 03-AUG-98 RS Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	Rec Lmts
TOC	6.7	<1	6.9	103	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: TOW064
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 808003

MS Date Analyzed: 03-AUG-98
MSD Date Analyzed: 03-AUG-98

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	8.6	128	8.6	128	0	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED
E = EXCEED THE CALIBRATION CURVE; THEREFORE, RESULTS ARE ESTIMATED.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

RSK 175
SAMPLE PREPARATION AND CALCULATIONS FOR DISSOLVED GAS ANALYSIS IN WATER SAMPLES USING A GC HEADSPACE EQUILIBRATION TECHNIQUE, RSK SOP-175, ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, USEPA, AUGUST 11, 1994.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
LB = LISA BIZZELL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY
DK = DARLENE KINCHEN
BT = BECKY TREMMEL
HAH = HOLLIE HOFFMAN

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	808001
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY, INC.
Project Location:	AGWMP-3Q98
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW044
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 05-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW044
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 04-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

"QC Report"

Title: Water Blank
Batch: TXW045
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 05-AUG-98 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: TXW044
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 808001-2

MS Date Analyzed: 05-AUG-98
MSD Date Analyzed: 05-AUG-98

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.100	0.021	0.120	99	0.119	98	1	20	75-125

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: TXW045
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 808003-4

MS Date Analyzed: 06-AUG-98
MSD Date Analyzed: 06-AUG-98

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.100	<0.01	0.104	104	0.097	97	7	20	75-125

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED
E = EXCEED THE CALIBRATION CURVE; THEREFORE, RESULTS ARE ESTIMATED.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

RSK 175
SAMPLE PREPARATION AND CALCULATIONS FOR DISSOLVED GAS ANALYSIS IN WATER SAMPLES USING A GC HEADSPACE EQUILIBRATION TECHNIQUE, RSK SOP-175, ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, USEPA, AUGUST 11, 1994.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
LB = LISA BIZZELL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY
DK = DARLENE KINCHEN
BT = BECKY TREMMEL
HAH = HOLLIE HOFFMAN

Severn Trent Laboratories of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 808001 Date Received: 01-aug-98

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Req By: PM Client Other♦ Yes* (No)
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? (Yes) No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes (No*)
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials: PKE) (Yes) No* N/A

Airbill Number(s): _____ Shipped By: FEDEX

Cooler Number(s): Client Cooler Shipping Charges: N/A

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3.0°C - CCK1

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

10. For sample 807386-06 was received out of hold time for 1/NO3. PKE 8/1/98
13. Next business day. PKE 8/1/98

8-3-98: Temp checked @ 5.5°C (CCK1) fr. Held over for delivery TOX + TOC only.

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PKE Date: 8/1/98 Logged By: PKE Date: 8/1/98

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

AMERICAN ENVIRONMENTAL NETWORK
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 7/30/98 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: AMERICAN ENVIRONMENTAL NETWORK
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

808001

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	B, Mn, Cr, Ni, Na		TOX	TOC	Gen Chemistry: EC, Cl, SO4	NNO3	TKN	Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
807386-01	7/30	1230	AQ	1					X		X	X	X	X	X																		
-02		1020		2					X		X	X	X	X	X																		
-04		1040		3					X		X	X	X	X	X																		
-05		1400		4					X		X	X	X	X	X																		
-06	7/20	1520		5					X		X	X	X	X	X																		

PROJECT INFORMATION	
PROJECT NUMBER:	807386
PROJECT NAME:	Sparton Technology
QC LEVEL:	STD. IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

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

DUE DATE: 8/13
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
CONNECTICUT	
ILLINOIS	
MASSACHUSETTS	
PENSACOLA	X
PORTLAND	
PHOENIX	
N.CAROLINA	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Francine Torino Time: 1700	Signature: Time:
Printed Name: Francine Torino Date: 7/31/98	Printed Name: Date:
Albuquerque	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 0945
Printed Name: Date:	Printed Name: R. ELSPERMAN Date: 8/11/98
Company:	Company: STL-FL

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 1 OF 6

AEN (NM) Accession #: 801384

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO:
COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO4, pH	TKN (NO2/NO3)	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na	Cr+6	NUMBER OF CONTAINERS
MW9-VOA	7/30/98	1230	AQ					X					X																				2
MW9-METALS	"	"	AQ																												X		2
MW9-EC, Cl, SO4, pH	"	"	"																					X									2
MW9-TOX	"	"	"									X																					2
MW9-TOC	"	"	"												X																		2
MW9-TKN	"	"	"																						X								2
MW9-NO3	"	"	"																							X							2
~~MW9-pH~~																																	
(JR) ~~MW9-Cr+6~~	"	"	"																													X	1

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
PROJ. NO.: 073098-A	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑
PROJ. NAME: AGWMP-3298	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
P.O. NO.: 57218-1-06	METHANOL PRESERVATION ☐
SHIPPED VIA: Hand delivered	COMMENTS: FIXED FEE ☐

SAMPLE RECEIPT	
NO. CONTAINERS	10
CUSTODY SEALS	Y/N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	14°C Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY

RECEIVED BY: 1	RECEIVED BY (LAB): 2
Signature: Time:	Signature: [illegible] Time: 1710
Printed Name: Date:	Printed Name: [illegible] Date: 7/30/98
Company:	American Environmental Network (NM) Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 2 OF 6

AEN (NM) Accession: 807386

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD.
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO4, pH	TKN (NO2, NO3)	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na, Cr+6	NUMBER OF CONTAINERS
MW19- VOA	7/30/98	10:20	AQ	002									X																			2
MW19- METALS	"	"	"																												X	
MW19-EC, Cl, SO4, pH	"	"	"																					X								1
MW19- TOX	"	"	"									X																				1
MW19- TOC	"	"	"												X																	1
MW19- TKN	"	"	"																						X							1
MW19- NO3	"	"	"																							X						1
MW-51	7/29/98	15:26	AQ	003									X																			2

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: Hand delivered

SAMPLE RECEIPT

NO. CONTAINERS	12
CUSTODY SEALS	Y/N/(N)
RECEIVED INTACT	Yes
BLUE ICE/ICE	14°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from field

RELINQUISHED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2

Signature: John Rose Time: 1700
Printed Name: JOHN ROSE Date: 7/30/98
Company: SPARTON TECHNOLOGY

RECEIVED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY (LAB): 2

Signature: Time:
Printed Name: Date: 7/30/98
American Environmental Network (NM) Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 3 OF 6

AEN (NM) Accession #: 807386

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: Cl, Br, SO_4, pH	TKN (NO_2, NO_3)	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na	Cl+6	NUMBER OF CONTAINERS
MW20-VOA	7/30/98	10:40	AQ										X																				3
MW20-METALS	"	"	"																												X		1
MW20-EC, Cl, SO_4, pH	"	"	"																					X									1
MW20-TOX	"	"	"									X																					2
MW20-TOC	"	"	"												X																		2
MW20-TKN	"	"	"																						X								1
MW20-NO_3	"	"	"																							X							1

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION	
PROJ. NO.:	073098-A
PROJ. NAME:	AGWMP-3Q98
P.O. NO.:	57218-1-06
SHIPPED VIA:	HAND delivered

SAMPLE RECEIPT	
NO. CONTAINERS	10
CUSTODY SEALS	Y / N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	14°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY

RECEIVED BY: 1	RECEIVED BY: (LAB) 2
Signature: Time:	Signature: [illegible] Time: 1700
Printed Name: Date:	Printed Name: [illegible] Date: 7/30/98
Company:	American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE 4 OF 16

AEN (NM) Accession #: 807386

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO_4, pH	TKN (NO_2, NO_3)	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na Crtl		NUMBER OF CONTAINERS
MW14-VOA	7/30/98	14:00	AQ	1									X																				2
MW14-METALS	"	"	"																												X		1
MW14-EC, Cl, SO_4, PH	"	"	"																					X									2
MW14-TOX	"	"	"									X																					1
MW14-TOC	"	"	"												X																		1
MW14-TKN	"	"	"																						X								1
MW14-NO_3	"	"	"																							X							1

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGUMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: Hand delivered

SAMPLE RECEIPT

NO. CONTAINERS	9
CUSTODY SEALS	Y/N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	14°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY
RECEIVED BY (LAB): 1	**RECEIVED BY (LAB): 2**
Signature: Time:	Signature: Time: 17:10
Printed Name: Date:	Printed Name: Date: 7/30/98
Company:	Company: American Environmental Network (NM) Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/20/98 PAGE: 6 OF 6

AEN (NM) Accession #: 801386

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUESTED

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:	TKN	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na	pH	NUMBER OF CONTAINERS
TB-VOA	7/20/98	11:00	AQ	01									X																				2
TB-METALS	7/20/98	15:20	"																											X			1
TB-EC, Cl, SO_4, F	"	"	"																				X										1
TB-TKN	"	"	"																					X									1
TB-NO_3	"	"	"																						X								1
TB-pH	"	"	"																													X	1
TB-TOX	"	"	"																														2
TB-TOC	"	"	"																														2
~~TB-S~~																																	

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: Hand delivered

SAMPLE RECEIPT

NO. CONTAINERS: 9
CUSTODY SEALS: Y/N/(NA)
RECEIVED INTACT: Yes
BLUE ICE/ICE: 14°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY
RECEIVED BY:	**RECEIVED BY (LAB):**
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Marcine Torrio Date: 7/30/98
Company:	American Environmental Network (NM) Inc.

Committed To *Your* Success

Severn Trent Laboratories
11 East Olive Road
Pensacola FL 32514

Tel: (850) 474-1001
Fax: (850) 474-4789

SIGNATURE PAGE

Reviewed by: M Patrick
STL Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON TECHNOLOGY
Project Number:	807386
Project Location:	AGWMP-3Q98
Accession Number:	807599
Project Manager:	KIMBERLY MCNEILL
Sampled By:	N/S

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	807599
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 807599
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 807386-01			Lab ID: 001		
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	
Comments:					
Client ID: 807386-02			Lab ID: 002		
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	
Comments:					
Client ID: 807386-04			Lab ID: 003		
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	
Comments:					
Client ID: 807386-05			Lab ID: 004		
HEXAVALENT CHROME (7196A)	MG/L	0.63	0.01	HCW019	
Comments:					
Client ID: 807386-06			Lab ID: 005		
HEXAVALENT CHROME (7196A)	MG/L	ND	0.01	HCW019	R4
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 807599
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
807386-01	001	WATER	30-JUL-98 1230	31-JUL-98
807386-02	002	WATER	30-JUL-98 1020	31-JUL-98
807386-04	003	WATER	30-JUL-98 1040	31-JUL-98
807386-05	004	WATER	30-JUL-98 1400	31-JUL-98
807386-06	005	WATER	20-JUL-98 1520	31-JUL-98

"Method Report Summary"

Accession Number: 807599
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 807386
Project Name: SPARTON TECHNOLOGY
Project Location: AGWMP-3Q98
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
807386-05	HEXAVALENT CHROME (7196A)	MG/L	0.63

SEVERN TRENT LABORATORIES 11 East Olive Rd Pensacola, FL 32514 (850) 474-1001

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

J4	(For positive results) Temperature limits exceeded (≤2°C or ≥ 6°C)
J6	(For positive results) Surrogate %R is > upper control limit (UCL) or < lower control limit (LCL)
J (AFCEE description)	The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects) Temperature limits exceeded (≤2°C or ≥ 6°C)
R2	Improper preservation, no preservative present in sample upon receipt
R3	Improper preservation, incorrect preservative present in sample upon receipt
R4	Holding time exceeded
R5	Collection requirements not met, improper container used for sample
R6	Surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects and nondetects
R (AFCEE description)	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F	< laboratory or AFCEE RL and > laboratory MDL
F (AFCEE description)	The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2	≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)	The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)	The analyte was found in the associated blank, as well as in the sample
@	Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+	Elevated reporting limit due to dilution into calibration range
*	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
#	Elevated reporting limit due to insufficient sample size
D	Diluted out
J5	The reported value is quantitated as a TIC; therefore, it is estimated
A2	Surrogate %R is > UCL (upper control limit) and analyte is not detected. No corrective action required
M	A matrix effect was present (sample was analyzed twice to confirm or chromatogram had interfering peaks)
S	Incorrect sample amount was submitted to the laboratory for analysis

ND = Not Detected N/S = Not Submitted N/A = Not Applicable
IDL = Laboratory Instrument Detection Limit MDL = Laboratory Method Detection Limit
RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)

STL-Pensacola uses the most current promulgated methods contained in the reference manuals

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative)

Florida Projects Inorganic/Organic

Y1	Improper preservation, no preservative present in sample upon receipt
Y2	Improper preservation, incorrect preservative present in sample upon receipt
Y3	Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate
Q	Sample held beyond the accepted holding time
I	The reported value is < Laboratory RL and > laboratory MDL
U1	The reported value is ≤ Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)	Indicates the compound was analyzed for but not detected
T	The reported value is < Laboratory MDL (value shall not be used for statistical analysis)
V	The analyte was detected in both the sample and the associated method blank
J1	Surrogate recovery limits have been exceeded
J2	The sample matrix interfered with the ability to make any accurate determinations
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)	Estimated value; not accurate

ICR Projects Inorganic/Organic

A1	Acceptable
R6	Rejected

Examples: ICR Flags
R6 = Laboratory extracted the sample but the refrigerator malfunctioned so the extract became warm and client was notified
R6 = Sample arrived in laboratory in good condition; however, the laboratory did not analyze it within EPA's established holding time limit

CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers

SEVERN TRENT LABORATORIES 11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	807599
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	807386
Project Name:	SPARTON TECHNOLOGY
Project Location:	AGWMP-3Q98
Department:	WET CHEM

"WetChem Quality Control Report"

Parameter:	HEX,CR.
Batch Id:	HCW019
Blank Result:	<0.01
Anal. Method:	7196A
Prep. Method:	N/A
Analysis Date:	31-JUL-98
Prep. Date:	31-JUL-98

Sample Duplication

Sample Dup:	807599-1
Rept Limit:	<0.01
Sample Result:	<0.01
Dup Result:	<0.01
Sample RPD:	N/C
Max RPD:	0.01
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	807599-1
Rept Limit:	<0.01
Sample Result:	<0.01
Spiked Result:	0.54
Spike Added:	0.50
% Recovery:	108
% Rec Limits:	76-116
Dry Weight%	N/A

ICV

ICV Result:	0.65
True Result:	0.60
% Recovery:	108
% Rec Limits:	90-110

LCS

LCS Result:	
True Result:	
% Recovery:	
% Rec Limits:	

"Quality Control Comments"

Batch Id:	Comments:
HCW019	808003-1,2,3,4,5 was added to the batch on 1-Aug-98.

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = REPORTING LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN WH = WENDY HAGGARD
ED = ESTHER DANTIN CR = CYNTHIA ROBERTS AB = AMY BRADLEY
BE = BETTY EVERTON PLD = PAULA L. DOUGHTY JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER

SEVERN TRENT LABORATORIES 11 East Olive Rd Pensacola, FL 32514 (850) 474-1001

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

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CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers

Severn Trent Laboratories of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 807599 Date Received: 31-Jul-98

1. Was there a Chain of Custody? (Yes) No+
2. Was Chain of Custody properly filled out and relinquished? (Yes) No+
3. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP 1055) (Yes) No+ N/A
4. Were all samples properly labeled and identified? (Yes) No+
5. Did samples require splitting? Yes+ (No)
   Req By: PM Client Other+
6. Were samples received in proper containers for analysis requested? (Yes) No+
7. Were all sample containers received intact? (Yes) No+
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)+* Yes No+ (N/A)
9. Is there sufficient volume for analysis requested? (Yes) No+
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes (No+)
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control Yes+ No (N/A)
12. If sent, were matrix spike bottles returned? Yes No+ (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No+ (N/A)

Airbill Number(s): 3980900603

Shipped By: FED EX

Cooler Number(s): Theirs

Shipping Charges: N/A

Cooler Weight(s): 13#

Cooler Temp(s) (°C): 5.5°C
CCK7
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

The IWO says there are Six Samples but only five are listed on the COC and only five bottles received.

Stuff 1/31 Sample #5, 807386-de was received out of hold time.

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: WSP Date: 7/31/98 Logged By: WSP Date: 7/31/98

\+ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

AMERICAN ENVIRONMENTAL NETWORK
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 7/30/98 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: AMERICAN ENVIRONMENTAL NETWORK
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry	Hexavalent Cr	Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
807386-01	7/30	1230	AQ											X																		
-02	↓	1020	↓											X																		
-04		1040												X																		
-05		1400												X																		
-06	7/20	1520												X																		

QC PROJECT INFORMATION

PROJECT NUMBER: 807386
PROJECT NAME: STI
QC LEVEL: STD. IV
QC REQUIRED: MS MSD BLANK
TAT: STANDARD RUSHI

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

DUE DATE: 8/13
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
CONNECTICUT	
ILLINOIS	
MASSACHUSETTS	
PENSACOLA	X
PORTLAND	
PHOENIX	
N.CAROLINA	

RELINQUISHED BY: 1.
Signature: Francine Torivio Time: 1700
Printed Name: Francine Torivio Date: 7/30/98
Albuquerque
Company:

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

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Leslie B. Phillips Time:
Printed Name: Leslie B. Phillips Date: 7/31/98
Company: STL-FL

001591

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 1 OF 1

AEN (NM) Accession #: 807386

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 505-892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:			Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	Cr+6	NUMBER OF CONTAINERS
MW9-Cr+6	7/30/98	12:30	AQ	01																												X	1
MW19-Cr+6	"	10:20	"	02																												X	1
MW20-Cr+6	"	10:40	"	04																												X	1
MW14-Cr+6	"	14:00	"	05																												X	1
TB.cr16	7/20/98	1520	"	06																												X	1

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q 98
P.O. NO.: 57218-1-06
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS:	5
CUSTODY SEALS:	Y/N (NA)
RECEIVED INTACT:	YES
BLUE ICE/ICE:	10°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: John Rose Time: 17:00
Printed Name: JOHN ROSE Date: 7/30/98
Company: SPARTON TECHNOLOGY

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Nancine Shuro Time: 1:00
Printed Name: Nancine Shuro Date: 7/30/98
American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 1 OF 6

AEN(NM) Accession #

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO:
COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, CL, SO4, pH	TKN (NO2, NO3)	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr3, Ni, Na	Cr+6	# OF CONTAINERS
MW9-VOA	7/30/98	1230	AQ									X																				
MW9-METALS	"	"	AQ																											X		
MW9-EC, CL, SO4, pH	"	"	"																				X									
MW9-TOX	"	"	"								X																					
MW9-TOC	"	"	"											X																		
MW9-TKN	"	"	"																					X								
MW9-NO3	"	"	"																						X							
~~MW9-pH~~																																
(JR) ~~MW9-Cr+6~~	"	"	"																												X	

PROJECT INFORMATION
PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: HAND delivered

SAMPLE RECEIPT
NO. CONTAINERS:
CUSTODY SEALS:
RECEIVED INTACT:
BLUE ICE/ICE:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑
CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
METHANOL PRESERVATION ☐
COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY
RECEIVED BY: 1	**RECEIVED BY (LAB): 2**
Signature: Time:	Signature: Time: 1710
Printed Name: Date:	Printed Name: Date: 7/30/98
Company:	American Environmental Network (NM) Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 2 OF 6

AEN(NM) Accession: 80 7386

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD.
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB NUMBER	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	~~8021 (HALO)~~ TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO4, pH	TKN (NO2, NO3)	NO3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na, Cr+6	NUMBER OF CONTAINERS
MW19- VOA	7/30/98	10:20	AQ										X																			2
MW19- METALS	"	"	"																												X	2
MW19-EC, CL, SO4, pH	"	"	"																					X								2
MW19- TOX	"	"	"									X																				2
MW19- TOC	"	"	"												X																	2
MW19- TKN	"	"	"																						X							2
MW19- NO3	"	"	"																							X						2
MW-51	7/29/98	15:26	AQ	03														X														2

SAMPLERS MUST SIGN FOR ALL SAMPLES

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: Hand delivered

SAMPLE RECEIPT

No. of CONTAINERS	
CUSTODY SEAL	
RECEIVED INTACT	N/A
SAMPLE TEMP.	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2

Signature: John Rose Time: 1700
Printed Name: JOHN ROSE Date: 7/30/98
Company: SPARTON TECHNOLOGY

RECEIVED BY (LAB): 2

Signature: Suzanne Murphy Time: 1710
Printed Name: Suzanne Murphy Date: 7/30/98
Company: American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 3 OF 6

AEN(NM) Accession # 801386

SHADED AREAS ARE FOR AEN USE ONLY

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO) TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO_4, pH	TKN (NO_2, NO_3)	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr^{+3}, Na, Cr^{+6}	NUMBER OF CONTAINERS
MW20 - VOA	7/30/98	10:40	AQ									X																			3
MW20 - METALS	"	"	"																											X	1
MW20 - EC, Cl, SO_4, pH	"	"	"																				X								2
MW20 - TOX	"	"	"								X																				2
MW20 - TOC	"	"	"											X																	2
MW20 - TKN	"	"	"																					X							1
MW20 - NO_3	"	"	"																						X						1

PROJECT INFORMATION

PROJ. NO.: 072398-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: HAND delivered

SAMPLE RECEIPT

No. CONTAINERS
CUSTODY SEALS
RECEIVED INTACT
BLUE ICE/DRY

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 1

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2

Signature: John Rose Time: 1700
Printed Name: JOHN ROSE Date: 7/30/98
Company: SPARTON TECHNOLOGY

RECEIVED BY: (LAB) 2

Signature: Nancine Lara Time: 1700
Printed Name: Date: 7/30/98
American Environmental Network (NM), Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE 4 OF 6

AEN (NM) Accession #: 807386

SAMPLED, PREPARED, AND ANALYZED ONLY

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO) TOX	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	TOC	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry: EC, Cl, SO_4, pH	TKN (NO_2, NO_3)	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na Crtl		NUMBER OF CONTAINERS
MW14-VOA	7/30/98	14:00	AG									X																				2
MW14-METALS	"	"	"																											X		1
MW14-EC, Cl, SO_4, pH	"	"	"																				X									2
MW14-TOX	"	"	"								X																					1
MW14-TOC	"	"	"											X																		1
MW14-TKN	"	"	"																					X								1
MW14-NO_3	"	"	"																						X							1

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
PROJ. NO.: 073098-A	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑
PROJ. NAME: AGWMP-3Q98	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
P.O. NO.: 57218-1-06	METHANOL PRESERVATION ☐
SHIPPED VIA: Hand delivered	COMMENTS: FIXED FEE ☐

SAMPLE RECEIPT

NO. OF CONTAINERS	4
CUSTODY SEALS	Intact (Y/N)
RECEIVED INTACT	Y/N
BLUE ICE/ICE	Y/N

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY

RECEIVED BY: 1	RECEIVED BY (LAB): 2
Signature: Time:	Signature: [illegible] Time: 1710
Printed Name: Date:	Printed Name: [illegible] Date: 7/30/98
Company:	American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 6 OF 6

AEN(NM) Accession #: 801386

SHADED AREAS ARE FOR AEN USE ONLY

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD
RIO RANCHO, NM
PHONE: 892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:	TKN	NO_3	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Cr+3, Ni, Na	PH	NUMBER OF CONTAINERS
TB-VOA	7/20/98	11:00	AQ										X																				1
TB-METALS	7/20/98	15:20	"																												X		1
TB-EC, Cl, SO_4, F	"	"	"																				X										1
TB-TKN	"	"	"																					X									1
TB-NO_3	"	"	"																						X								1
TB-pH	"	"	"																													X	1
TB-TOX	"	"	"																														2
TB-TOC	"	"	"																														1
~~TB-E~~																																	

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q98
P.O. NO.: 57218-1-06
SHIPPED VIA: Hand delivered

SAMPLE RECEIPT

No. CONTAINERS: 6
CUSTODY SEAL: Y or N
RECEIVED INTACT: Y
BLUE ICE: Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 1700
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY

RECEIVED BY (LAB): 1	RECEIVED BY (LAB): 2
Signature: Time:	Signature: Time: 1710
Printed Name: Date:	Printed Name: Date: 7/30/98
Company:	Company: American Environmental Network (NM) Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/30/98 PAGE: 6 OF 6

AEN(NM) Accession #: 807386

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN ROSE

COMPANY: SPARTON TECHNOLOGY
ADDRESS: 4901 ROCKAWAY BLVD.
RIO RANCHO, NM
PHONE: 505-892-5300
FAX: 892-5515

BILL TO: SPARTON TECHNOLOGY
COMPANY: 4901 ROCKAWAY BLVD
ADDRESS: RIO RANCHO, NM

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:			Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	Cr+6	NUMBER OF CONTAINERS
MW9-Cr+6	7/30/98	12:30	AQ	01																												X	1
MW19-Cr+6	"	10:20	"	02																												X	2
MW20-Cr+6	"	10:40	"	04																												X	3
MW14-Cr+6	"	14:00	"	05																												X	4
TB-Cr+6	7/20/98	1520	"	06																												X	1

PROJECT INFORMATION

PROJ. NO.: 073098-A
PROJ. NAME: AGWMP-3Q 98
P.O. NO.: 57218-1-06
SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS: 5
CUSTODY SEALS: Y/N/NA
RECEIVED INTACT: Y/N
BLUE ICE/ICE: Y/N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

Direct from Field

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time:	Signature: John Rose Time: 17:00
Printed Name: Date:	Printed Name: JOHN ROSE Date: 7/30/98
Company:	Company: SPARTON TECHNOLOGY
RECEIVED BY: 1	**RECEIVED BY: (LAB) 2**
Signature: Time:	Signature: Francine Shuire Time: 1700
Printed Name: Date:	Printed Name: FRANCINE ONAYO Date: 7/30/98
Company:	American Environmental Network (NM), Inc.

MW = 51

PINNACLE LABORATORIES

AEN I.D. 807386

August 25, 1998

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. NW
RIO RANCHO, NM 87124

Project Name AGWMP-3Q98
Project Number 073098-A

Attention: JOHN ROSE

On 7/30/98 Pinnacle Laboratories, Inc., formerly American Environmental Network (NM), 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.

This report is being reissued in part to include EPA method 8260 which was previously omitted. EPA method 8260 was performed by ESL, Portland, OR. This report was originally dated 8/13/98. We apologize for any inconvenience this may have caused.

EPA methods 150.1 and 8021 were performed by Pinnacle Laboratories Inc., Albuquerque, NM.

All other parameters were performed by STL, Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

2709-D Pan American Freeway, NE. Albuquerque, New Mexico 87107 Phone: 505-344-3777. Fax: 505-344-4413

Environmental Services Laboratory, Inc. E S L

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Kim McNeill
AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998
AEN Account No.: 90147
AEN Job Number: 98.01597

Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Sample Number	Sample Description	Matrix Type	Date Taken	Date Received
104962	807386-03	Water	07/29/1998	08/03/1998

Approved by:

Andi Hoevet
Project Manager
ESL, INC.

Technical Review
ESL, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL SERVICES FOR THE ENVIRONMENT

ANALYTICAL REPORT

Kim McNeill
AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

08/11/1998
Job No.: 98.01597

Project Name: 807386 Sparton Tech.
Date Received: 08/03/1998

Sample Number	Sample Description
104962	807386-03

PARAMETERS	METHODS	RESULTS	REPORT LIMIT	UNITS	DATE ANALYZED	FLAG
LOW LEVEL VOLATILES - 8260 (W)						
Dilution Factor	8260	1			08/10/1998	
Dichlorodifluoromethane	8260	ND	2.0	ug/L	08/10/1998	
Chloromethane	8260	ND	5.0	ug/L	08/10/1998	
Vinyl Chloride	8260	ND	2.0	ug/L	08/10/1998	
Bromomethane	8260	ND	5.0	ug/L	08/10/1998	
Chloroethane	8260	ND	2.0	ug/L	08/10/1998	
Trichlorofluoromethane	8260	ND	2.0	ug/L	08/10/1998	
1,1-Dichloroethene	8260	ND	1.0	ug/L	08/10/1998	
Acetone	8260	ND	20	ug/L	08/10/1998	
Iodomethane	8260	ND	5.0	ug/L	08/10/1998	
Carbon Disulfide	8260	ND	1.0	ug/L	08/10/1998	
Methylene Chloride	8260	ND	50	ug/L	08/10/1998	
Acrylonitrile	8260	ND	50	ug/L	08/10/1998	
t-1,2-Dichloroethene	8260	ND	1.0	ug/L	08/10/1998	
MTBE	8260	ND	2.0	ug/L	08/10/1998	
1,1-Dichloroethane	8260	ND	1.0	ug/L	08/10/1998	
Vinyl Acetate	8260	ND	1.0	ug/L	08/10/1998	
2-Butanone	8260	ND	20	ug/L	08/10/1998	
c-1,2-Dichloroethene	8260	ND	1.0	ug/L	08/10/1998	
2,2-Dichloropropane	8260	ND	1.0	ug/L	08/10/1998	
Bromochloromethane	8260	ND	1.0	ug/L	08/10/1998	
Chloroform	8260	ND	1.0	ug/L	08/10/1998	
1,1,1-Trichloroethane	8260	ND	1.0	ug/L	08/10/1998	
1,1-Dichloropropene	8260	ND	1.0	ug/L	08/10/1998	
Carbon Tetrachloride	8260	ND	1.0	ug/L	08/10/1998	
Benzene	8260	ND	1.0	ug/L	08/10/1998	
1,2-Dichloroethane (EDC)	8260	ND	1.0	ug/L	08/10/1998	
Trichloroethene	8260	ND	1.0	ug/L	08/10/1998	
1,2-Dichloropropane	8260	ND	1.0	ug/L	08/10/1998	
Dibromomethane	8260	ND	1.0	ug/L	08/10/1998	
Bromodichloromethane	8260	ND	1.0	ug/L	08/10/1998	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

ANALYTICAL REPORT

Kim McNeill
AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

08/11/1998
Job No.: 98.01597

Project Name: 807386 Sparton Tech.
Date Received: 08/03/1998

Sample Number	Sample Description
104962	807386-03

PARAMETERS	METHODS	RESULTS	REPORT LIMIT	UNITS	DATE ANALYZED	FLAG
2-CEVE	8260	ND	10	ug/L	08/10/1998	
cis-1,3-Dichloropropene	8260	ND	1.0	ug/L	08/10/1998	
4-methyl-2-pentanone (MIBK)	8260	ND	1.0	ug/L	08/10/1998	
Toluene	8260	ND	1.0	ug/L	08/10/1998	
trans-1,3-Dichloropropene	8260	ND	1.0	ug/L	08/10/1998	
1,1,2-Trichloroethane	8260	ND	1.0	ug/L	08/10/1998	
Tetrachloroethene	8260	ND	1.0	ug/L	08/10/1998	
1,3-Dichloropropane	8260	ND	1.0	ug/L	08/10/1998	
2-Hexanone	8260	ND	20	ug/L	08/10/1998	
Dibromochloromethane	8260	ND	1.0	ug/L	08/10/1998	
1,2-Dibromoethane (EDB)	8260	ND	1.0	ug/L	08/10/1998	
Chlorobenzene	8260	ND	1.0	ug/L	08/10/1998	
1,1,1,2-Tetrachloroethane	8260	ND	1.0	ug/L	08/10/1998	
Ethyl Benzene	8260	ND	1.0	ug/L	08/10/1998	
m,p-xylene	8260	ND	2.0	ug/L	08/10/1998	
o-xylene	8260	ND	1.0	ug/L	08/10/1998	
Styrene	8260	ND	1.0	ug/L	08/10/1998	
Bromoform	8260	ND	1.0	ug/L	08/10/1998	
Isopropylbenzene	8260	ND	1.0	ug/L	08/10/1998	
1,1,2,2-Tetrachloroethane	8260	ND	1.0	ug/L	08/10/1998	
1,2,3-Trichloropropane	8260	ND	1.0	ug/L	08/10/1998	
Bromobenzene	8260	ND	1.0	ug/L	08/10/1998	
N-Propylbenzene	8260	ND	1.0	ug/L	08/10/1998	
2-Chlorotoluene	8260	ND	1.0	ug/L	08/10/1998	
1,3,5-Trimethlybenzene	8260	ND	1.0	ug/L	08/10/1998	
4-Chlorotoluene	8260	ND	1.0	ug/L	08/10/1998	
Tert-butylbenzene	8260	ND	1.0	ug/L	08/10/1998	
1,2,4-Trimethylbenzene	8260	ND	1.0	ug/L	08/10/1998	
Sec-butylbenzene	8260	ND	1.0	ug/L	08/10/1998	
p-Isopropyltoluene	8260	ND	1.0	ug/L	08/10/1998	
1,3-Dichlorobenzene	8260	ND	1.0	ug/L	08/10/1998	
1,4-Dichlorobenzene	8260	ND	1.0	ug/L	08/10/1998	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

ANALYTICAL REPORT

Kim McNeill
AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

08/11/1998
Job No.: 98.01597

Project Name: 807386 Sparton Tech.
Date Received: 08/03/1998

Sample Number	Sample Description
104962	807386-03

PARAMETERS	METHODS	RESULTS	REPORT LIMIT	UNITS	DATE ANALYZED	FLAG
N-butylbenzene	8260	ND	1.0	ug/L	08/10/1998	
1,2-Dichlorobenzene	8260	ND	1.0	ug/L	08/10/1998	
1,2-Dibromo-3-chloropropane	8260	ND	1.0	ug/L	08/10/1998	
1,2,4-Trichlorobenzene	8260	ND	1.0	ug/L	08/10/1998	
Hexachlorobutadiene	8260	ND	1.0	ug/L	08/10/1998	
Naphthalene	8260	ND	5.0	ug/L	08/10/1998	
1,2,3-Trichlorobenzene	8260	ND	1.0	ug/L	08/10/1998	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

SURROGATE REPORT

Kim McNeill
AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

08/11/1998
Job No.: 98.01597

Project Name: 807386 Sparton Tech.
Date Received: 08/03/1998

SURROGATES	METHODS	RESULTS		DATE ANALYZED	FLAG
Sample Number	Sample Description				
104962	807386-03				
1,4-Dichlorobenzene-d4 (Surr.)	8260	107	%	08/10/1998	
Toluene-d8 (Surr.)	8260	111	%	08/10/1998	
Bromofluorobenzene (Surr.)	8260	115	%	08/10/1998	

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.

Analyte	CCV True Concentration	Concentration Found	Percent Recovery	Date Analyzed
LOW LEVEL VOLATILES - 8260 (W)				
1,1-Dichloroethene	50	53.9	107.8	08/10/1998
Benzene	50	56.2	112.4	08/10/1998
Trichloroethene	50	54.8	109.6	08/10/1998
Toluene	50	54.7	109.4	08/10/1998
Chlorobenzene	50	53.0	106.0	08/10/1998
LOW LEVEL VOLATILES - 8260 (W)				
1,1-Dichloroethene	50	52.5	105.0	08/10/1998
Benzene	50	54.6	109.2	08/10/1998
Trichloroethene	50	50.7	101.4	08/10/1998
Toluene	50	53.5	107.0	08/10/1998
Chlorobenzene	50	55.2	110.4	08/10/1998

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.

Analyte	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD	Flags
LOW LEVEL VOLATILES - 8260											
1,1-Dichloroethene	52.2	ND	50	ug/L	104.4	55.8	50	ug/L	111.6	6.7	
Benzene	56.9	ND	50	ug/L	113.8	59.5	50	ug/L	119.0	4.5	
Trichloroethene	53.5	ND	50	ug/L	107.0	56.7	50	ug/L	113.4	5.8	
Toluene	53.7	ND	50	ug/L	107.4	56.8	50	ug/L	113.6	5.6	
Chlorobenzene	53.6	ND	50	ug/L	107.2	57.3	50	ug/L	114.6	6.7	

QC Sample:

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
dil.= Diluted Out

Environmental Services Laboratory, Inc. (503)684-0447 (503)620-0393 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
LOW LEVEL VOLATILES - 8260 (W)				
Dichlorodifluoromethane	ND	2.0	ug/L	08/10/1998
Chloromethane	ND	5.0	ug/L	08/10/1998
Vinyl Chloride	ND	2.0	ug/L	08/10/1998
Bromomethane	ND	5.0	ug/L	08/10/1998
Chloroethane	ND	2.0	ug/L	08/10/1998
Trichlorofluoromethane	ND	2.0	ug/L	08/10/1998
1,1-Dichloroethene	ND	1.0	ug/L	08/10/1998
Acetone	ND	20	ug/L	08/10/1998
Iodomethane	ND	5.0	ug/L	08/10/1998
Carbon Disulfide	ND	1.0	ug/L	08/10/1998
Methylene Chloride	ND	50	ug/L	08/10/1998
Acrylonitrile	ND	50	ug/L	08/10/1998
t-1,2-Dichloroethene	ND	1.0	ug/L	08/10/1998
MTBE	ND	2.0	ug/L	08/10/1998
1,1-Dichloroethane	ND	1.0	ug/L	08/10/1998
Vinyl Acetate	ND	1.0	ug/L	08/10/1998
2-Butanone	ND	20	ug/L	08/10/1998
c-1,2-Dichloroethene	ND	1.0	ug/L	08/10/1998
2,2-Dichloropropane	ND	1.0	ug/L	08/10/1998
Bromochloromethane	ND	1.0	ug/L	08/10/1998
Chloroform	ND	1.0	ug/L	08/10/1998
1,1,1-Trichloroethane	ND	1.0	ug/L	08/10/1998
1,1-Dichloropropene	ND	1.0	ug/L	08/10/1998
Carbon Tetrachloride	ND	1.0	ug/L	08/10/1998
Benzene	ND	1.0	ug/L	08/10/1998

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
1,2-Dichloroethane (EDC)	ND	1.0	ug/L	08/10/1998
Trichloroethene	ND	1.0	ug/L	08/10/1998
1,2-Dichloropropane	ND	1.0	ug/L	08/10/1998
Dibromomethane	ND	1.0	ug/L	08/10/1998
Bromodichloromethane	ND	1.0	ug/L	08/10/1998
2-CEVE	ND	10	ug/L	08/10/1998
cis-1,3-Dichloropropene	ND	1.0	ug/L	08/10/1998
4-methyl-2-pentanone (MIBK)	ND	1.0	ug/L	08/10/1998
Toluene	ND	1.0	ug/L	08/10/1998
trans-1,3-Dichloropropene	ND	1.0	ug/L	08/10/1998
1,1,2-Trichloroethane	ND	1.0	ug/L	08/10/1998
Tetrachloroethene	ND	1.0	ug/L	08/10/1998
1,3-Dichloropropane	ND	1.0	ug/L	08/10/1998
2-Hexanone	ND	20	ug/L	08/10/1998
Dibromochloromethane	ND	1.0	ug/L	08/10/1998
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	08/10/1998
Chlorobenzene	ND	1.0	ug/L	08/10/1998
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/10/1998
Ethyl Benzene	ND	1.0	ug/L	08/10/1998
m,p-xylene	ND	2.0	ug/L	08/10/1998
o-xylene	ND	1.0	ug/L	08/10/1998
Styrene	ND	1.0	ug/L	08/10/1998
Bromoform	ND	1.0	ug/L	08/10/1998
Isopropylbenzene	ND	1.0	ug/L	08/10/1998
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	08/10/1998
1,2,3-Trichloropropane	ND	1.0	ug/L	08/10/1998

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Bromobenzene	ND	1.0	ug/L	08/10/1998
N-Propylbenzene	ND	1.0	ug/L	08/10/1998
2-Chlorotoluene	ND	1.0	ug/L	08/10/1998
1,3,5-Trimethlybenzene	ND	1.0	ug/L	08/10/1998
4-Chlorotoluene	ND	1.0	ug/L	08/10/1998
Tert-butylbenzene	ND	1.0	ug/L	08/10/1998
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/10/1998
Sec-butylbenzene	ND	1.0	ug/L	08/10/1998
p-Isopropyltoluene	ND	1.0	ug/L	08/10/1998
1,3-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
1,4-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
N-butylbenzene	ND	1.0	ug/L	08/10/1998
1,2-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/10/1998
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/10/1998
Hexachlorobutadiene	ND	1.0	ug/L	08/10/1998
Naphthalene	ND	5.0	ug/L	08/10/1998
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/10/1998
1,4-Dichlorobenzene-d4(Surr.)	106		%	08/10/1998
Toluene-d8 (Surr.)	111		%	08/10/1998
Bromofluorobenzene (Surr.)	113		%	08/10/1998
LOW LEVEL VOLATILES - 8260 (W)				
Dichlorodifluoromethane	ND	2.0	ug/L	08/10/1998
Chloromethane	ND	5.0	ug/L	08/10/1998
Vinyl Chloride	ND	2.0	ug/L	08/10/1998
Bromomethane	ND	5.0	ug/L	08/10/1998

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Chloroethane	ND	2.0	ug/L	08/10/1998
Trichlorofluoromethane	ND	2.0	ug/L	08/10/1998
1,1-Dichloroethene	ND	1.0	ug/L	08/10/1998
Acetone	ND	20	ug/L	08/10/1998
Iodomethane	ND	5.0	ug/L	08/10/1998
Carbon Disulfide	ND	1.0	ug/L	08/10/1998
Methylene Chloride	ND	50	ug/L	08/10/1998
Acrylonitrile	ND	50	ug/L	08/10/1998
t-1,2-Dichloroethene	ND	1.0	ug/L	08/10/1998
MTBE	ND	2.0	ug/L	08/10/1998
1,1-Dichloroethane	ND	1.0	ug/L	08/10/1998
Vinyl Acetate	ND	1.0	ug/L	08/10/1998
2-Butanone	ND	20	ug/L	08/10/1998
c-1,2-Dichloroethene	ND	1.0	ug/L	08/10/1998
2,2-Dichloropropane	ND	1.0	ug/L	08/10/1998
Bromochloromethane	ND	1.0	ug/L	08/10/1998
Chloroform	ND	1.0	ug/L	08/10/1998
1,1,1-Trichloroethane	ND	1.0	ug/L	08/10/1998
1,1-Dichloropropene	ND	1.0	ug/L	08/10/1998
Carbon Tetrachloride	ND	1.0	ug/L	08/10/1998
Benzene	ND	1.0	ug/L	08/10/1998
1,2-Dichloroethane (EDC)	ND	1.0	ug/L	08/10/1998
Trichloroethene	ND	1.0	ug/L	08/10/1998
1,2-Dichloropropane	ND	1.0	ug/L	08/10/1998
Dibromomethane	ND	1.0	ug/L	08/10/1998
Bromodichloromethane	ND	1.0	ug/L	08/10/1998

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
2-CEVE	ND	10	ug/L	08/10/1998
cis-1,3-Dichloropropene	ND	1.0	ug/L	08/10/1998
4-methyl-2-pentanone (MIBK)	ND	1.0	ug/L	08/10/1998
Toluene	ND	1.0	ug/L	08/10/1998
trans-1,3-Dichloropropene	ND	1.0	ug/L	08/10/1998
1,1,2-Trichloroethane	ND	1.0	ug/L	08/10/1998
Tetrachloroethene	ND	1.0	ug/L	08/10/1998
1,3-Dichloropropane	ND	1.0	ug/L	08/10/1998
2-Hexanone	ND	20	ug/L	08/10/1998
Dibromochloromethane	ND	1.0	ug/L	08/10/1998
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	08/10/1998
Chlorobenzene	ND	1.0	ug/L	08/10/1998
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/10/1998
Ethyl Benzene	ND	1.0	ug/L	08/10/1998
m,p-xylene	ND	2.0	ug/L	08/10/1998
o-xylene	ND	1.0	ug/L	08/10/1998
Styrene	ND	1.0	ug/L	08/10/1998
Bromoform	ND	1.0	ug/L	08/10/1998
Isopropylbenzene	ND	1.0	ug/L	08/10/1998
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	08/10/1998
1,2,3-Trichloropropane	ND	1.0	ug/L	08/10/1998
Bromobenzene	ND	1.0	ug/L	08/10/1998
N-Propylbenzene	ND	1.0	ug/L	08/10/1998
2-Chlorotoluene	ND	1.0	ug/L	08/10/1998
1,3,5-Trimethlybenzene	ND	1.0	ug/L	08/10/1998
4-Chlorotoluene	ND	1.0	ug/L	08/10/1998

QUALITY CONTROL REPORT
BLANKS

AEN - Albuquerque
2709-D Pan American Fwy NE
Albuquerque, NM 87107

Date: 08/11/1998

Job Number: 98.01597

Contact: Kim McNeill
Project: 807386 Sparton Tech.
Location: AGWMP-3Q98

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Tert-butylbenzene	ND	1.0	ug/L	08/10/1998
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/10/1998
Sec-butylbenzene	ND	1.0	ug/L	08/10/1998
p-Isopropyltoluene	ND	1.0	ug/L	08/10/1998
1,3-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
1,4-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
N-butylbenzene	ND	1.0	ug/L	08/10/1998
1,2-Dichlorobenzene	ND	1.0	ug/L	08/10/1998
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/10/1998
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/10/1998
Hexachlorobutadiene	ND	1.0	ug/L	08/10/1998
Naphthalene	ND	5.0	ug/L	08/10/1998
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/10/1998
1,4-Dichlorobenzene-d4(Surr.)	107		%	08/10/1998
Toluene-d8 (Surr.)	107		%	08/10/1998
Bromofluorobenzene (Surr.)	117		%	08/10/1998

FLAG GLOSSARY

A	This sample does not have a typical gasoline pattern.
B1	This sample does not have a typical diesel pattern.
B	Analyte found in the associated blank as well as the sample.
C	The sample contains a lighter hydrocarbon than gasoline.
CN	See case narrative
CS	Outside control limits or unusual matrix; see case narrative.
D	The sample extends to a heavier hydrocarbon range than gasoline.
d	Results on a dry weight basis
DIL	Result was calculated from dilution.
E	The sample extends to a lighter hydrocarbon range than diesel.
F	The sample extends to a heavier hydrocarbon range than diesel.
G	The positive result for gasoline is due to single component comtamination.
I	The oil pattern for this sample is not typical.
J	The result for this compound is an estimated concentration.
L	The LCS recovery exceeded control limits. See the LCS page of this report.
LM	The LCS recovery exeeded control limits; the MS/MSD were in control validating the batch.
M	MS and/or MSD percent recovery exceeds control limits.
MD	Unable to calculate MS/MSD recovery due to high amount of analyte; greater than 4 times spike level.
MR	The MS/MSD RPD is greater than method critera. The sample was re-extracted and re-analyzed with similar results indicating a non-homogeneous sample.
MM	The Matrix Spike exceeded control limits; LCS was in control validating the batch.
MI	Outside control limits due to matrix interference.
N	Manual integration performed on sample for quantification.
N/A	Not Applicable.
NC	Not calcuable.
NO	Not Analyzed.
P	A post digestion spike was analyzed, and recoveries were within control limits.
Q	Detection limits elevated due to sample matrix.
Q1	Detection limits elevated due to high levels of non-target compounds. Sample(s) run at a dilution.
R	The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.
R1	The duplicate RPD was greater than 20%. Visual inspection showed the sample to be non-homogeneous.
RD	RPD not applicable for results less than five times the reporting limit.
RH	The Relative Percent Difference (RPD) between two columns was greater than 40%, the higher result was reported.
RL	The Relative Percent Difference (RPD) between two columns was greater than 40%, the lower result was reported due to obvious interference with the higher result.
RP	MS/MSD RPD is greater than 20%
SR	Surrogate recovery outside control limits. See the surrogate page of the report.
SD	Unable to quantitate surrogate due to sample dilution.
SC	Sample not provided to laboratory in proper sampling container.
V	Volatile analysis was requested, sample container received with headspace.
X1	The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.
X	Sample was analyzed outside recommended holding times.
Y	The result for this parameter was greater than the TCLP regulatory limit.
Z	The pattern seen for the parameter being analyzed is not typical.

AMERICAN ENVIRONMENTAL NETWORK
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 7/31/98 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: AMERICAN ENVIRONMENTAL NETWORK
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS ~~(624/8240)~~ 8260	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
807386-03	7/29	1526	AQ																			X											

PROJECT INFORMATION	
PROJECT NUMBER:	807386
PROJECT NAME:	Sparton Technology
QC LEVEL:	STD. IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

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

DUE DATE: 8/13
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
CONNECTICUT	
ILLINOIS	
MASSACHUSETTS	
PENSACOLA	
PORTLAND	X
PHOENIX	
N.CAROLINA	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Francine Tonno Time: 1715	Signature: Time:
Printed Name: Francine Tonno Date: 7/31/98	Printed Name: Date:
Albuquerque	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 1200	Signature: Time:
Printed Name: D. Thomas Date: 8/3/98	Printed Name: Date:
Company: ESL	Company: