Barbara

SPARTON

SPARTON TECHNOLOGY

JUL 1996
RECEIVED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

July 23, 1996

Mr. Benito Garcia
Bureau Chief
HAZARDOUS AND RADIOACTIVE MATERIALS BUREAU
New Mexico Environment Department
PO Box 26110
Santa Fe, New Mexico 87505

Re: Second Quarter 1996 AGMP Report

Dear Mr. Garcia:

Enclosed is Sparton Technology's Ground Water Report for the Second Quarter 1996 as required by the Alternate Ground Water Monitoring Program. Included in the report are copies of the lab data sheets. Ground water samples for AGMP wells were collected by Sparton Technology, Inc. and Metric Corp. personnel on April 24 and 25, 1996.

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

Sincerely,
SPARTON TECHNOLOGY, INC.

R D Mico

Richard D. Mico
Vice President and General Manager

enclosure:

cc: (without enclosure)
Mr. J. Appel
Mr. P. Chandler
Mr. G. Richardson
Mr. J. Wakefield

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 78.35 LABORATORY NAME: AEN

DATE SAMPLED: 4-24-96 LABORATORY SAMPLE I.D. #: 604401-10

TIME SAMPLED: 1345 DATE RECEIVED BY LAB: 4-24-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4974.16	4-24-96
Well Casing Volume	--------	gal.	1.37	4-24-96
Pump Rate	--------	gal./min.	0.12	4-24-96
Pump Period	72004	min.	34	4-24-96
Volume Evacuated	73675	gal.	4.1	4-24-96
Well Sampling Method	84077	--------	BLDRP	4-24-96
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.65	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	780	1	4-26-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	480	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	5-6-96	
	00680	mg/l				415.2
	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	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-23-90

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	46	2.0	NA	5-1-96	8010
Trichloroethene		UG/L	710	15	NA	5-1-96	8010
1,1,1 Trichloroethene		UG/L	91	10	NA	5-1-96	8010
Chloroform		UG/L	2.7	5	NA	4-27-96	8010
1,1 Dichloroethane		UG/L	3.0	0.3	NA	4-27-96	8010
Methylene Chloride		UG/L	49	20	NA	5-1-96	8010
Tetrachloroethene		UG/L	2.7	0.5	NA	4-27-96	8010
1,1,2 - Trichloroethane		UG/L	1.2	0.2	NA	4-27-96	8010
Chlorobenzene		UG/L	0.5	0.5	NA	4-27-96	8010
Trans-1, 3-Dichloropropene		UG/L	0.2	0.2	NA	4-27-96	8010
Trichloro-Fluoromethane		UG/L	0.6	0.2	NA	4-27-96	8010

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

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

WELL DEPTH: 73.08 LABORATORY NAME: AEN

DATE SAMPLED: 4-24-96 LABORATORY SAMPLE I.D. #: 604401-11

TIME SAMPLED: 1415 DATE RECEIVED BY LAB: 4-24-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.64	4-24-96
Well Casing Volume	--------	gal.	0.44	4-24-96
Pump Rate	--------	gal./min.	0.06	4-24-96
Pump Period	72004	min.	33	4-24-96
Volume Evacuated	73675	gal.	1.7	4-24-96
Well Sampling Method	84077	--------	BLDRP	4-24-96
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.	8.10	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	4-26-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	300	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	>1	1	5-6-96	
	00680	mg/l				415.1
	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	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	16	20	NA	4-30-96	8010
Trichloroethene		UG/L	420	15	NA	5-1-96	8010
1,1,1 Trichloroethene		UG/L	6.7	100	NA	4-30-96	8010
Tetrachloroethene		UG/L	1.5	5	NA	4-30-96	8010
Chloroform		UG/L	1.8	5	NA	4-30-96	8010
1,1,2 - Trichloroethane		UG/L	0.7	0.2	NA	4-30-96	8010
Cis-1,2-Dichloroethene		UG/L	0.2	0.2	NA	4-30-96	8010

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. SECOND QUARTER 1996

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: 4-24-96 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.	No Water	4-24-96
Well Casing Volume	--------	gal.	N/A	
Pump Rate	--------	gal./min.	N/A	
Pump Period	72004	min.	N/A	
Volume Evacuated	73675	gal.	N/A	
Well Sampling Method	84077	--------	N/A	
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-15

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
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	N/A	8		
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	N/A	0.5		
	00680	mg/l				415.2
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-15

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

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	N/A	N/A	NA	N/A	N/A
Trichloroethene		UG/L	N/A	N/A	NA	N/A	N/A

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

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

WELL DEPTH: 71.52 LABORATORY NAME: AEN

DATE SAMPLED: 4-25-96 LABORATORY SAMPLE I.D. #: 604404-02

TIME SAMPLED: 1417 DATE RECEIVED BY LAB: 4-25-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4979.28	4-25-96
Well Casing Volume	--------	gal.	0.54	4-25-96
Pump Rate	--------	gal./min.	0.03	4-25-96
Pump Period	72004	min.	59	4-25-96
Volume Evacuated	73675	gal.	1.9	4-25-96
Well Sampling Method	84077	--------	BLDRP	4-25-96
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.95	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	1000	1	5-2-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	1400	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1	1	5-6-96	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-16

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

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	110	5.0	NA	5-2-96	8010
Trichloroethene		UG/L	9700	150	NA	5-2-96	8010
1,1,1 Trichloroethane		UG/L	1200	100	NA	5-7-96	8010
Tetrachloroethene		UG/L	56	13	NA	5-2-96	8010
Chloroform		UG/L	3.9	0.5	NA	5-2-96	8010
1,1-Dichloroethane		UG/L	3.0	0.3	NA	5-2-96	8010
Methylene Chloride		UG/L	3.0	2.0	NA	5-2-96	8010
Bromoform		UG/L	1.1	0.5	NA	5-2-96	8010
Carbon Tetrachloride		UG/L	0.7	0.2	NA	5-2-96	8010
Chlorobenzene		UG/L	1.8	0.5	NA	5-2-96	8010
Dibromochloromethane		UG/L	0.8	0.2	NA	5-2-96	8010
1,2-Dibromoethane		UG/L	1.0	0.2	NA	5-2-96	8010
Cis-1,2-Dichloroethene		UG/L	0.3	0.2	NA	5-2-96	8010
1,2-Dichloropropane		UG/L	0.3	0.2	NA	5-2-96	8010
1,1,2,2Tetrachloroethane		UG/L	0.6	0.5	NA	5-2-96	8010
1,1,2-Trichloroethane		UG/L	5.2	0.2	NA	5-2-96	8010

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 111.42 LABORATORY NAME: AEN

DATE SAMPLED: 4-24-96 LABORATORY SAMPLE I.D. #: 604401-08

TIME SAMPLED: 1256 DATE RECEIVED BY LAB: 4-24-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.16	4-24-96
Well Casing Volume	--------	gal.	25.03	4-24-96
Pump Rate	--------	gal./min.	0.84	4-24-96
Pump Period	72004	min.	91	4-24-96
Volume Evacuated	73675	gal.	76	4-24-96
Well Sampling Method	84077	--------	BLDRP	4-24-96
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.	7.69	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	4-26-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	25	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	5-6-96	
	00680	mg/l				415.1
	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	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	1.5	0.2	NA	4-30-96	8010
Trichloroethene		UG/L	88	1.5	NA	5-1-96	8010

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

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

WELL DEPTH: 139.00 LABORATORY NAME: AEN

DATE SAMPLED: 4-24-96 LABORATORY SAMPLE I.D. #: 604401-09

TIME SAMPLED: 1322 DATE RECEIVED BY LAB: 4-24-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.82	4-24-96
Well Casing Volume	--------	gal.	43.10	4-24-96
Pump Rate	--------	gal./min.	1.09	4-24-96
Pump Period	72004	min.	121	4-24-96
Volume Evacuated	73675	gal.	131	4-24-96
Well Sampling Method	84077	--------	BLDRP	4-24-96
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.	7.67	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	620	1	4-26-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	<10	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1	5-6-96	
	00680	mg/l				415.1
	00680	mg/l				
	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	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	<0.2	20	NA	4-30-96	8010
Trichloroethene		UG/L	0.4	150	NA	4-30-96	8010

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 4-24-96 LABORATORY SAMPLE I.D. #: 604401-12

TIME SAMPLED: 1433 DATE RECEIVED BY LAB: 4-24-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.93	4-24-96
Well Casing Volume	--------	gal.	0.18	4-24-96
Pump Rate	--------	gal./min.	0.02	4-24-96
Pump Period	72004	min.	30	4-24-96
Volume Evacuated	73675	gal.	0.60	4-24-96
Well Sampling Method	84077	--------	BLDRP	4-24-96
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.87	NA	4-25-96	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	580	1	4-26-96	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	130	10	5-8-96	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	5-6-96	
	00680	mg/l				415.1
	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	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	5.6	0.2	NA	4-26-96	8010
Trichloroethene		UG/L	140	3.0	NA	4-30-96	8010
1,1,1-Trichloroethane		UG/L	65	10	NA	4-30-96	8010
Tetrachloroethene		UG/L	1.7	0.5	NA	4-26-96	8010

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. SECOND QUARTER 1996

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 76.05 LABORATORY NAME: AEN

DATE SAMPLED: 4-25.96 LABORATORY SAMPLE I.D. #: 604404-01

TIME SAMPLED: 1254 DATE RECEIVED BY LAB: 4-25-96

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.64	4-25-96
Well Casing Volume	--------	gal.	1.08	4-25-96
Pump Rate	--------	gal./min.	0.12	4-25-96
Pump Period	72004	min.	34	4-25-96
Volume Evacuated	73675	gal.	4.0	4-25-96
Well Sampling Method	84077	--------	BLDRP	4-25-96
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

GROUND WATER QUALITY PARAMETERS MW-22

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

DATE OF THIS REPORT: 7-23-96

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

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	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene		UG/L	9.2	0.2	NA	4-29-96	8010
Trichloroethene		UG/L	81	3.0	NA	5-1-96	8010
1,1,1 Trichloroethane		UG/L	43	10	NA	5-1-96	8010
Tetrachloroethene		UG/L	1.3	5.0	NA	4-29-96	8010

American Environmental Network, Inc.

AEN I.D. **604401** AGMP 2Q 1996
MW-19,20,9,14,21
FB + TB Rec. 5-22-96

May 16, 1996

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

Project Name/Number: AGMP-2Q96 042496-A

Attention: John M. Wakefield

On **04/24/96**, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) 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.

Total Organic Halide analyses were performed by Paragon Analytics Inc., 225 Commerce Drive, Fort Collins, CO.

Total Organic Carbon & Conductance analyses were performed by American Environmental Network (FL) Inc., 11 east East Olive Road, Pensacola, FL.

All other analyses were performed by American Environmental Network (NM), Inc., Albuquerque, NM.

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:jt

Enclosure

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGY INC.	DATE RECEIVED	: 04/24/96
PROJECT #	: 042496-A		
PROJECT NAME	: AGMP-2Q96	REPORT DATE	: 05/16/96

AEN ID: 604401

	AEN ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
08	604401-08	MW-19	AQUEOUS	04/24/96
09	604401-09	MW-20	AQUEOUS	04/24/96
10	604401-10	MW-9	AQUEOUS	04/24/96
11	604401-11	MW-14	AQUEOUS	04/24/96
12	604401-12	MW-21	AQUEOUS	04/24/96
13	604401-13	FIELD BLANK	AQUEOUS	04/24/96
14	604401-14	TRIP BLANK	AQUEOUS	04/17/96

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	7

AEN STANDARD DISPOSAL PRACTICE

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

American Environmental Network, Inc.

CLIENT : SPARTON TECHNOLOGY INC.
AEN ACCESSION # : 604401

METHOD	TEST	DATE(S) ANALYZED	DETECTION LIMITS	ANALYST INITIALS
9020	TOTAL ORGANIC HALIDE	05/08/96	10 UG/L	TK
415.1	TOTAL ORGANIC CARBON	05/06/96	1 MG/L	DWB
8010	PURGEABLE HALOCARBONS	04/26/96 04/27/96 04/30/96 05/01/96	SEE DATA PAGE	PN
120.1	CONDUCTIVITY	04/26/96	1 UMH/CM	RB
150.1	pH	04/25/96	-	DJ

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8010 - AQUEOUS
1X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	0.2
BROMOFORM	0.5
BROMOMETHANE	1.0
CARBON TETRACHLORIDE	0.2
CHLOROBENZENE	0.5
CHLOROETHANE	0.5
CHLOROFORM	0.5
CHLOROMETHANE	1.0
DIBROMOCHLOROMETHANE	0.2
1,2-DIBROMOETHANE (EDB)	0.2
1,2-DICHLOROBENZENE	0.5
1,3-DICHLOROBENZENE	0.5
1,4-DICHLOROBENZENE	0.5
1,1-DICHLOROETHANE	0.3
1,2-DICHLOROETHANE (EDC)	0.5
1,1-DICHLOROETHENE	0.2
CIS-1,2-DICHLOROETHENE	0.2
TRANS-1,2-DICHLOROETHENE	1.0
1,2-DICHLOROPROPANE	0.2
CIS-1,3-DICHLOROPROPENE	0.2
TRANS-1,3-DICHLOROPROPENE	0.2
METHYLENE CHLORIDE	2.0
1,1,2,2-TETRACHLOROETHANE	0.5
TETRACHLOROETHENE	0.5
1,1,1-TRICHLOROETHANE	1.0
1,1,2-TRICHLOROETHANE	0.2
TRICHLOROETHENE	0.3
TRICHLOROFLUOROMETHANE	0.2
VINYL CHLORIDE	0.5

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8010 - AQUEOUS
5X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	1.0
BROMOFORM	2.5
BROMOMETHANE	5.0
CARBON TETRACHLORIDE	1.0
CHLOROBENZENE	2.5
CHLOROETHANE	2.5
CHLOROFORM	2.5
CHLOROMETHANE	5.0
DIBROMOCHLOROMETHANE	1.0
1,2-DIBROMOETHANE (EDB)	1.0
1,2-DICHLOROBENZENE	2.5
1,3-DICHLOROBENZENE	2.5
1,4-DICHLOROBENZENE	2.5
1,1-DICHLOROETHANE	1.5
1,2-DICHLOROETHANE (EDC)	2.5
1,1-DICHLOROETHENE	1.0
CIS-1,2-DICHLOROETHENE	1.0
TRANS-1,2-DICHLOROETHENE	5.0
1,2-DICHLOROPROPANE	1.0
CIS-1,3-DICHLOROPROPENE	1.0
TRANS-1,3-DICHLOROPROPENE	1.0
METHYLENE CHLORIDE	10
1,1,2,2-TETRACHLOROETHANE	2.5
TETRACHLOROETHENE	2.5
1,1,1-TRICHLOROETHANE	5.0
1,1,2-TRICHLOROETHANE	1.0
TRICHLOROETHENE	1.5
TRICHLOROFLUOROMETHANE	1.0
VINYL CHLORIDE	2.5

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8010 - AQUEOUS
10X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	2.0
BROMOFORM	5.0
BROMOMETHANE	10
CARBON TETRACHLORIDE	2.0
CHLOROBENZENE	5.0
CHLOROETHANE	5.0
CHLOROFORM	5.0
CHLOROMETHANE	10
DIBROMOCHLOROMETHANE	2.0
1,2-DIBROMOETHANE (EDB)	2.0
1,2-DICHLOROBENZENE	5.0
1,3-DICHLOROBENZENE	5.0
1,4-DICHLOROBENZENE	5.0
1,1-DICHLOROETHANE	3.0
1,2-DICHLOROETHANE (EDC)	5.0
1,1-DICHLOROETHENE	2.0
CIS-1,2-DICHLOROETHENE	2.0
TRANS-1,2-DICHLOROETHENE	10
1,2-DICHLOROPROPANE	2.0
CIS-1,3-DICHLOROPROPENE	2.0
TRANS-1,3-DICHLOROPROPENE	2.0
METHYLENE CHLORIDE	20
1,1,2,2-TETRACHLOROETHANE	5.0
TETRACHLOROETHENE	5.0
1,1,1-TRICHLOROETHANE	10
1,1,2-TRICHLOROETHANE	2.0
TRICHLOROETHENE	3.0
TRICHLOROFLUOROMETHANE	2.0
VINYL CHLORIDE	5.0

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8010 - AQUEOUS
50X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	10
BROMOFORM	25
BROMOMETHANE	50
CARBON TETRACHLORIDE	10
CHLOROBENZENE	25
CHLOROETHANE	25
CHLOROFORM	25
CHLOROMETHANE	50
DIBROMOCHLOROMETHANE	10
1,2-DIBROMOETHANE (EDB)	10
1,2-DICHLOROBENZENE	25
1,3-DICHLOROBENZENE	25
1,4-DICHLOROBENZENE	25
1,1-DICHLOROETHANE	15
1,2-DICHLOROETHANE (EDC)	25
1,1-DICHLOROETHENE	10
CIS-1,2-DICHLOROETHENE	10
TRANS-1,2-DICHLOROETHENE	50
1,2-DICHLOROPROPANE	10
CIS-1,3-DICHLOROPROPENE	10
TRANS-1,3-DICHLOROPROPENE	10
METHYLENE CHLORIDE	100
1,1,2,2-TETRACHLOROETHANE	25
TETRACHLOROETHENE	25
1,1,1-TRICHLOROETHANE	50
1,1,2-TRICHLOROETHANE	10
TRICHLOROETHENE	15
TRICHLOROFLUOROMETHANE	10
VINYL CHLORIDE	25

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8240 - AQUEOUS
1X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
ACETONE	10
BENZENE	5.0
BROMODICHLOROMETHANE	5.0
BROMOFORM	5.0
BROMOMETHANE	5.0
2-BUTANONE	20
CARBON DISULFIDE	10
CARBON TETRACHLORIDE	5.0
CHLOROBENZENE	5.0
CHLOROETHANE	5.0
2-CHLOROETHYL VINYL ETHER	10
CHLOROFORM	5.0
CHLOROMETHANE	5.0
DIBROMOCHLOROMETHANE	5.0
1,2-DIBROMOETHANE	5.0
1,2-DICHLOROBENZENE	5.0
1,3-DICHLOROBENZENE	5.0
1,4-DICHLOROBENZENE	5.0
DICHLORODIFLUOROMETHANE	5.0
1,1-DICHLOROETHANE	5.0
1,2-DICHLOROETHANE	5.0
1,1-DICHLOROETHENE	5.0
CIS-1,2-DICHLOROETHENE	5.0
TRANS-1,2-DICHLOROETHENE	5.0
1,2-DICHLOROPROPANE	5.0
CIS-1,2-DICHLOROPROPANE	5.0
TRANS-1,2-DICHLOROPROPANE	5.0
ETHYLBENZENE	5.0
2-HEXANONE	5.0
IODOMETHANE	5.0
METHYLENE CHLORIDE	5.0
4-METHYL-2-PENTANONE	15
STYRENE	5.0
1,1,2,2-TETRACHLOROETHANE	5.0
TETRACHLOROETHENE	5.0
TOLUENE	5.0
1,1,1-TRICHLOROETHANE	5.0
1,1,2-TRICHLOROETHANE	5.0
TRICHLOROETHENE	5.0
TRICHLOROFLUOROMETHANE	5.0
VINYL ACETATE	20
VINYL CHLORIDE	5.0
TOTAL XYLENES	5.0

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604401

AEN'S DETECTION LIMITS FOR METHOD 8240 - AQUEOUS
5X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
TRICHLOROETHENE	25

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY INC.	AEN I.D.	: 604401
PROJECT #	: 042496-A	DATE RECEIVED	: 04/24/96
PROJECT NAME	: AGMP-2Q96	DATE ANALYZED	: 04/25/96
		SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	08	09	10	11
PH (150.1)	UNITS	7.69	7.67	7.65	8.10

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY INC.	AEN I.D.	: 604401
PROJECT #	: 042496-A	DATE RECEIVED	: 04/24/96
PROJECT NAME	: AGMP-2Q96	DATE ANALYZED	: 04/25/96
		SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	12	13	14
PH (150.1)	UNITS	7.87	8.27	7.88

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECHNOLOGY INC. AEN I.D. : 604401
PROJECT # : 042496-A SAMPLE MATRIX : AQUEOUS
PROJECT NAME : AGMP-2Q96

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	RPD
PH	UNITS	60440108	7.68	7.85	2

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

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

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604401
PROJECT # : 042496-A
PROJECT NAME : AGMP-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
08	MW-19	AQUEOUS	04/24/96	NA	04/30/96	1
09	MW-20	AQUEOUS	04/24/96	NA	04/30/96	1
10	MW-9	AQUEOUS	04/24/96	NA	04/27/96	1

PARAMETER	UNITS	08	09	10
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	**UG/L**	<0.5	<0.5	**0.5**
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	**UG/L**	<0.5	<0.5	**2.7**
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	**UG/L**	<0.3	<0.3	**3.0**
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	**1.5**	<0.2	**46 D(10)**
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	**UG/L**	<0.2	<0.2	**0.2**
METHYLENE CHLORIDE	**UG/L**	<2.0	<2.0	**49 D(10)**
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5	<0.5	<0.5
TETRACHLOROETHENE	**UG/L**	<0.5	<0.5	**2.7**
1,1,1-TRICHLOROETHANE	**UG/L**	<1.0	<1.0	**91 D(10)**
1,1,2-TRICHLOROETHANE	**UG/L**	<0.2	<0.2	**1.2**
TRICHLOROETHENE	**UG/L**	**88 D(5)**	**0.4**	**710 D(50)**
TRICHLOROFLUOROMETHANE	**UG/L**	<0.2	<0.2	**0.6**
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		80	79	81

D(10)=DILUTED 10X, ANALYZED 05/01/96
D(50)=DILUTED 50X, ANALYZED 05/01/96
D(5)=DILUTED 5X, ANALYZED 05/01/96

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604401
PROJECT # : 042496-A
PROJECT NAME : AGMP-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
11	MW-14	AQUEOUS	04/24/96	NA	04/30/96	1
12	MW-21	AQUEOUS	04/24/96	NA	04/26/96	1
13	FIELD BLANK	AQUEOUS	04/24/96	NA	04/30/96	1

PARAMETER	UNITS	11	12	13
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	**UG/L**	**1.8**	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3	<0.3	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	**16**	**5.6**	<0.2
CIS-1,2-DICHLOROETHENE	**UG/L**	**0.2**	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5	<0.5	<0.5
TETRACHLOROETHENE	**UG/L**	**1.5**	**1.7**	<0.5
1,1,1-TRICHLOROETHANE	**UG/L**	**6.7**	**65 D(10)**	<1.0
1,1,2-TRICHLOROETHANE	**UG/L**	**0.7**	<0.2	<0.2
TRICHLOROETHENE	**UG/L**	**420 D(50)**	**140 D(10)**	**0.3**
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
SURROGATE:				
BROMOCHLOROMETHANE (%)		77	86	77

D(10)=DILUTED 10X, ANALYZED 04/30/96
D(50)=DILUTED 50X, ANALYZED 05/01/96

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604401
PROJECT # : 042496-A
PROJECT NAME : AGMP-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
14	TRIP BLANK	AQUEOUS	04/17/96	NA	05/01/96	1

PARAMETER	UNITS	14
BROMODICHLOROMETHANE	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	<0.2
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 (%) 77

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604401
BLANK I.D.	: 042696	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042496-A	DATE ANALYZED	: 04/26/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	93

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604401
BLANK I.D.	: 042996	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042496-A	DATE ANALYZED	: 04/29/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	90

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604401
BLANK I.D.	: 043096	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042496-A	DATE ANALYZED	: 04/30/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	89

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GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604401
BLANK I.D.	: 050196	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042496-A	DATE ANALYZED	: 05/01/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	92

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GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 60440109	AEN I.D.	: 604401
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042496-A	DATE ANALYZED	: 05/02/96
PROJECT NAME	: AGMP-2Q96	SAMPLE MATRIX	: AQUEOUS
REF. I.D.	: 60440109	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
CHLOROBENZENE	<0.5	10.0	12.0	120	11.9	119	1
1,1-DICHLOROETHENE	<0.2	10.0	8.9	89	8.5	85	5
TRICHLOROETHENE	<0.3	10.0	12.4	124	12.5	125	1

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

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

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 604490
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604401
Project Name: SPARTON
Project Location: AGMP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 604401-08			Lab ID: 001		
CONDUCTIVITY (120.1)	UMH/CM	740	1	CDW015	
Comments:					
Client ID: 604401-09			Lab ID: 002		
CONDUCTIVITY (120.1)	UMH/CM	620	1	CDW015	
Comments:					
Client ID: 604401-10			Lab ID: 003		
CONDUCTIVITY (120.1)	UMH/CM	780	1	CDW015	
Comments:					
Client ID: 604401-11			Lab ID: 004		
CONDUCTIVITY (120.1)	UMH/CM	690	1	CDW015	
Comments:					
Client ID: 604401-12			Lab ID: 005		
CONDUCTIVITY (120.1)	UMH/CM	580	1	CDW015	
Comments:					
Client ID: 604401-13			Lab ID: 006		
CONDUCTIVITY (120.1)	UMH/CM	3	1	CDW015	
Comments:					
Client ID: 604401-14			Lab ID: 007		
CONDUCTIVITY (120.1)	UMH/CM	2	1	CDW015	
Comments:					

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 604490
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604401
Project Name: SPARTON
Project Location: AGMP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
604401-08	001	WATER	24-APR-96 1256	25-APR-96
604401-09	002	WATER	24-APR-96 1322	25-APR-96
604401-10	003	WATER	24-APR-96 1345	25-APR-96
604401-11	004	WATER	24-APR-96 1415	25-APR-96
604401-12	005	WATER	24-APR-96 1433	25-APR-96
604401-13	006	WATER	24-APR-96 1432	25-APR-96
604401-14	007	WATER	24-APR-96 1405	25-APR-96

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 604490
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604401
Project Name: SPARTON
Project Location: AGMP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
604401-08	CONDUCTIVITY (120.1)	UMH/CM	740
604401-09	CONDUCTIVITY (120.1)	UMH/CM	620
604401-10	CONDUCTIVITY (120.1)	UMH/CM	780
604401-11	CONDUCTIVITY (120.1)	UMH/CM	690
604401-12	CONDUCTIVITY (120.1)	UMH/CM	580
604401-13	CONDUCTIVITY (120.1)	UMH/CM	3
604401-14	CONDUCTIVITY (120.1)	UMH/CM	2

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"WetChem Quality Control Report"

Parameter:	CONDUCT'Y
Batch Id:	CDW015
Blank Result:	<1
Anal. Method:	120.1
Prep. Method:	N/A
Analysis Date:	26-APR-96
Prep. Date:	26-APR-96

Sample Duplication

Sample Dup:	604490-1
Rept Limit:	<1
Sample Result:	742
Dup Result:	743
Sample RPD:	0
Max RPD:	4
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	N/A
Rept Limit:	N/A
Sample Result:	
Spiked Result:	
Spike Added:	
% Recovery:	
% Rec Limits:	
Dry Weight%	

ICV

ICV Result:	1414
True Result:	1413
% Recovery:	100
% Rec Limits:	90-110

LCS

LCS Result:	296
True Result:	303
% Recovery:	98
% Rec Limits:	84-110

American Environmental Network, Inc.

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

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.

(CA) = SEE CORRECTIVE ACTIONS FORM.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, 17TH ED., 1989
NIOSH Manual of Analytical Methods, 3rd Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991.

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. IF FLASHPOINT IS LESS THAN 25 DEGREES CELSIUS, THE DETECTION LIMIT BECOMES THE INITIAL STARTING TEMPERATURE.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).

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

DPH = DOLLY P. HWANG	SG = SCOTT GRESHAM	RB = REBECCA BROWN
NC = NICOLE CALL	NSB = NANCY S. BUTLER	MM = MARY MOLONEY
CF = CHRISTINE FOSTER	ED = ESTHER DANTIN	AB = ANDY BROTHERTON
AMC = A. MICKEY CROW	RH = RICKY HAGENDORFER	BH = BARRY HICK

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	24-APR-96 1256
Client Sample Id:	604401-08	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	24-APR-96 1322
Client Sample Id:	604401-09	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	003	Sample Date/Time:	24-APR-96 1345
Client Sample Id:	604401-10	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	004	Sample Date/Time:	24-APR-96 1415
Client Sample Id:	604401-11	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	005	Sample Date/Time:	24-APR-96 1433
Client Sample Id:	604401-12	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	006	Sample Date/Time:	24-APR-96 1432
Client Sample Id:	604401-13	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604490
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604401
Project Name:	SPARTON
Project Location:	AGMP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	007	Sample Date/Time:	24-APR-96 1405
Client Sample Id:	604401-14	Received Date:	25-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 604490
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604401
Project Name: SPARTON
Project Location: AGMP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
604401-09	TOTAL ORGANIC CARBON	MG/L	1
604401-10	TOTAL ORGANIC CARBON	MG/L	2

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

Blank Id: A Date Analyzed: 06-MAY-96 Date Extracted: N/A

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

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Reagent
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

RS Date Analyzed: 06-MAY-96
RSD Date Analyzed: 06-MAY-96

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.5	97	6.0	90	7	30	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.

American Environmental Network, Inc.

"QC Report"

Title: Water Matrix
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 604538-1

MS Date Analyzed: 06-MAY-96
MSD Date Analyzed: 06-MAY-96

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	8.4	125	8.3	124	1	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.

American Environmental Network, Inc.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
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 DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

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

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

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

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

LJT = LISA THOMASON
SW = STEVE WILHITE
KW = KAREN WADSWORTH
PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
BV = BEN VAUGHN
BC = BETH COLEMAN
KS = KENDALL SMITH
KK = KERRY KUST
DWB = DAVID W. BOWERS
RP = ROB PEREZ

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

May 9, 1996

Ms. Kimberly McNeill
American Environmental Network, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

RE: Paragon Workorder: 96-04-173
Client Project Name: AGMP
Client Project Number: 604401

Dear Ms. McNeill,

Seven water samples were received from American Environmental Network, Inc. on April 26, 1996. The samples were scheduled for Total Organic Halide analysis. The results for this analysis are contained in the enclosed report.

Should you have any questions, please call.

Sincerely,

John Whalen

Paragon Analytics, Inc.
John Whalen
Project Manager

JW/drb
Enclosure: report

Paragon Analytics, Inc.

TOTAL ORGANIC HALIDE CASE NARRATIVE

Client ID	PAI-ID
604401-08	96-04-173-01
604401-09	96-04-173-02
604401-10	96-04-173-03
604401-11	96-04-173-04
604401-12	96-04-173-05
604401-13	96-04-173-06
604401-14	96-04-173-07

1. This report consists of seven water samples.

2. Samples were received cool and intact on April 26, 1996.

3. Samples had been correctly preserved for the requested analyses.

4. The samples were prepared for analysis based on SW-846, 3rd Edition procedures (9020).

   A sample of water that has been protected against the loss of volatiles by the elimination of head space in the sampling container and that is free of undissolved solids is run through two micro-columns containing granular activated carbon (GAC). The sample containing GAC is then rinsed with a nitrate wash to eliminate any organic halide that may be present. After the rinse is complete the GAC is combusted--in a separate burn for each column--to form hydrogen halide (HX) that is coulometrically titrated with silver ion. An electric potential is applied to a solid silver electrode to produce silver ions in the cell. The current produced is integrated over the combustion period. The measurement of the total current required to replace the consumed silver ion and maintain a constant silver ion concentration in the cell is a direct measure of the organic halogen present in the combusted sample. The mass concentration of organic halides is reported as an equivalent concentration of organically bound chlorine. This SOP requires that all samples be analyzed in duplicate.

5. All standards and solutions were used within their recommended shelf life.

6. All samples were prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.

- A preparation (method) blank was extracted and analyzed with the samples in this batch and was below the reporting limits for total organic halides.
- All initial and continuing calibration verifications associated with this batch were in sequence and within acceptance criteria for total organic halides. This indicates a valid calibration and stable instrument conditions.

The data contained in the following report have been reviewed and approved by the personnel listed below:

T.K.	05/09/96
Analyst's Initials	Date
Steve Lockman	5/9/96
Reviewer	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

TOTAL ORGANIC HALIDE

Method 9020 TOX

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Client Project ID: AGMP--604401
Lab Workorder Number: 96-04-173

Date Collected: 04/24/96
Date Extracted: 05/08/96
Date Analyzed: 05/08/96

Sample Matrix: Water

Sample ID	Lab Sample ID	Sample Volume (mL)	TOX Conc. (ug/L)	TOX Detection Limit
Reagent Blank	WRB96-04-173	100	<10	10
604401-08	96-04-173-01	100	25	10
604401-09	96-04-173-02	100	<10	10
604401-10	96-04-173-03	100	480	10
604401-11	96-04-173-04	100	300	10
604401-12	96-04-173-05	100	130	10
604401-13	96-04-173-06	100	<10	10
604401-14	96-04-173-07	100	<10	10

TOTAL ORGANIC HALIDE MATRIX SPIKE RESULTS

Method 9020 TOX

Sample ID

In House

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Lab Sample ID: 96-04-172-02

Sample Matrix: Water

Date Extracted: 05/08/96
Date Analyzed: 05/08/96

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS Percent Recovery
2,4,6-Trichlorophenol	20000	1420	20800	97

Analytical Technologies of New Mexico, Inc.
Albuquerque, New Mexico

Interlab Chain of Custody

~~604490~~ PHE 604490 DATE: 4/29 4/25/96 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: **Analytical Technologies of New Mexico, Inc.**
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: K 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	Specific Conductance	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
604401 -08	4/24	1256	AQ	01							X	X		X																		
-09		1322		02							X	X		X																		
-10		1345		03							X	X		X																		
-11		1415		04							X	X		X																		
-12		1433		05							X	X		X																		
-13		1432		06							X	X		X																		
-14	4/27	1405		07							X	X		X																		

PROJECT INFORMATION	
PROJECT NUMBER:	604401
PROJECT NAME:	AGMP
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	~~604490~~ PHE 4/25/96

DUE DATE: 5/10
RUSH SURCHARGE:
CLIENT DISCOUNT: 20
SPECIAL CERTIFICATION REQUIRED: [ ] YES [ ] NO

(*) Not Relinquished
(*)(*) - Recd via Fedex

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1700
Printed Name: J. H. Caldwell Date: 4/24/96
Analytical Technologies of New Mexico, Inc. Albuquerque

RECEIVED BY: 1.
Signature: [signature] Time: 0745
Printed Name: R. ELSPERMAN Date: 4/25/96
Company: AEN - FL

RELINQUISHED BY: 2.
Signature (*) Time
Printed Name Date
Company

RECEIVED BY: (LAB) 2.
Signature [signature] Time 900
Printed Name D Hum Date 4/26/96
Company: Dunya

Paragon Analytics - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: AEN-NM SHIPPING CONTAINER #: Cooler

WORKORDER NO. 96-04-173 INITIALS: [illegible] DATE: 4/26/96

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number _____		Yes	No
2.	Are custody seals on the cooler intact? If so, how many _____	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes___ No ✓ Requested Analysis: Yes ✓ No___		Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___		Yes	No
7.	Are the samples preserved correctly?	N/A	Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample received on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free?	N/A	Yes	No
13.	Do the samples require quarantine?		Yes	No
14.	Do samples require ATI disposal?		Yes	No
15.	Did the client return any unused bottles?		Yes	No

Describe "NO" items (except No's 1, 13, &14): 5 not Relinquished

Was the client contacted? Yes____ No____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature: [illegible] Date: 4-26-96

Cooler Temperature:_____

ATI FRM 201FC5 (2/21/96)

AnalyticalTechnologies of New Mexico, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque • Anchorage

CHAIN OF CUSTODY

DATE: 4-24-96 PAGE: 1 OF 1

ATLLAB I.D. 604401

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: Spanton Technology Inc.
ADDRESS: 9621 Coors Rd. NW
Albuquerque NM 87114
PHONE: 505-892-5300
FAX: 505 892-5515

BILL TO: "
COMPANY: "
ADDRESS: 4901 Rockaway Blvd.
Rio Rancho NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject		(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)		504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS		Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Specific Conductance	General Chemistry: pH	TOC	TOX	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
MW-19	4-24-96	1256	H_2O	~~-08~~									X										X	X	X	X							7
MW-20	"	1322	"	~~-09~~									X										X	X	X	X							7
MW-9	"	1345	"	-10									X										X	X	X	X							7
MW-14	"	1415	"	-11									X										X	X	X	X							7
MW-21	"	1433	"	-12									X										X	X	X	X							7
Field Blank	4-24-96	1432	H_2O	-13									X										X	X	X	X							7
Trip Blank	4-17-96	1405	H_2O	-14									X										X	X	X	X							5

PROJECT INFORMATION	
PROJ. NO.:	042496-A
PROJ. NAME:	AGMP-2Q96
P.O. NO.:	
SHIPPED VIA:	Delivered

SAMPLE RECEIPT	
NO. CONTAINERS:	47
CUSTODY SEALS:	Y/N NA
RECEIVED INTACT:	Y
BLUE ICE/ICE:	9

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1515	Signature: Time: 1600
Printed Name: John M. Wakefield Date:	Printed Name: Peter H. Metzner Date: 4-24-96
Company: STI	Company: Metric Corp
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time: 1515	Signature: Time: 1600
Printed Name: Peter H. Metzner Date: 4-24-96	Printed Name: John Caldwell Date: 4-24-96
Company: Metric Corp	Analytical Technologies of New Mexico

AnalyticalTechnologies of New Mexico, Inc.
Albuquerque, New Mexico

Interlab Chain of Custody 604490

DATE: 4/29 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: Analytical Technologies of New Mexico, Inc.
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: K 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	Specific Conductance		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
604401 -08	4/24	1256	AQ	1							X	X		X																			
-09		1322		2							X	X		X																			
-10		1345		3							X	X		X																			
-11		1415		4							X	X		X																			
-12		1433		5							X	X		X																			
-13		1432		6							X	X		X																			
-14	4/27	1405		7							X	X		X																			

PROJECT INFORMATION	
PROJECT NUMBER:	604401
PROJECT NAME:	AGMP
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	604490

DUE DATE: 5/10
RUSH SURCHARGE:
CLIENT DISCOUNT: 20
SPECIAL CERTIFICATION REQUIRED: ☐YES ☐NO

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 1700	Signature: Time:
Printed Name: J. H. Caldwell Date: 4/24/96	Printed Name: Date:
Analytical Technologies of New Mexico, Inc. Albuquerque	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: [signature] Time: 0745	Signature: Time:
Printed Name: R. ELSPERMAN Date: 4/25/96	Printed Name: Date:
Company: AEN-FL	Company:

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

American Environmental Network, Inc.

AEN I.D. **604404** AGMP 2Q 1996
MW-16, 22
Rec. 5-22-96

May 21, 1996

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

Project Name/Number: AGMP-2Q96 042596

Attention: John M. Wakefield

On **04/25/96**, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) 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 method 150.1 and 8010 analyses were performed by American Environmental Network (NM), Inc., Albuquerque, NM.

EPA method 9020 and 415.2 (for sample MW-22) analyses were performed by Paragon Analytics Inc., 225 Commerce Drive, Fort Collins, CO.

EPA method 120.1 and 415.1 (for sample MW-16) analyses were performed by American Environmental Network (FL) Inc., 11 east East Olive Road, 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:jt

Enclosure

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGY INC.	DATE RECEIVED	: 04/25/96
PROJECT #	: 042596		
PROJECT NAME	: AGMP-2Q96	REPORT DATE	: 05/21/96

AEN ID: 604404

	AEN ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	604404-01	MW-22	AQUEOUS	04/25/96
02	604404-02	MW-16	AQUEOUS	04/25/96

---TOTALS---

MATRIX	#SAMPLES
AQUEOUS	2

AEN STANDARD DISPOSAL PRACTICE

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

American Environmental Network, Inc.

CLIENT : SPARTON TECHNOLOGY INC.
AEN ACCESSION #: 604404

METHOD	TEST	DATE ANALYZED	DETECTION LIMITS	ANALYST INITIALS
150.1	pH	04/25/96	-	DJ
8010	PURGEABLE HALOCARBONS	04/29/96 05/02/96 05/01/96 05/07/96	SEE DATA PAGES	PN
415.2	TOTAL ORGANIC CARBON - PARAGON ANALYTICS	05/10/96	1 MG/L	TK
9020	TOTAL ORGANIC HALIDE	05/01/96 05/08/96	10 UG/L (100 ML SAMPLE VOLUME) 1000 UG/L (1 ML SAMPLE VOLUME)	TK
120.1	CONDUCTIVITY	05/02/96	1 UMH/CM	RB
415.1	TOTAL ORGANIC CARBON - AEN (FL), INC.	05/06/96	1 MG/L	DWB

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604404

AEN'S DETECTION LIMITS FOR METHOD 8010-AQUEOUS
1X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	0.2
BROMOFORM	0.5
BROMOMETHANE	1.0
CARBON TETRACHLORIDE	0.2
CHLOROBENZENE	0.5
CHLOROETHANE	0.5
CHLOROFORM	0.5
CHLOROMETHANE	1.0
DIBROMOCHLOROMETHANE	0.2
1,2-DIBROMOETHANE (EDB)	0.2
1,2-DICHLOROBENZENE	0.5
1,3-DICHLOROBENZENE	0.5
1,4-DICHLOROBENZENE	0.5
1,1-DICHLOROETHANE	0.3
1,2-DICHLOROETHANE (EDC)	0.5
1,1-DICHLOROETHENE	0.2
CIS-1,2-DICHLOROETHENE	0.2
TRANS-1,2-DICHLOROETHENE	1.0
1,2-DICHLOROPROPANE	0.2
CIS-1,3-DICHLOROPROPENE	0.2
TRANS-1,3-DICHLOROPROPENE	0.2
METHYLENE CHLORIDE	2.0
1,1,2,2-TETRACHLOROETHANE	0.5
TETRACHLOROETHENE	0.5
1,1,1-TRICHLOROETHANE	1.0
1,1,2-TRICHLOROETHANE	0.2
TRICHLOROETHENE	0.3
TRICHLOROFLUOROMETHANE	0.2
VINYL CHLORIDE	0.5

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604404

AEN'S DETECTION LIMITS FOR METHOD 8010-AQUEOUS
10X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	2.0
BROMOFORM	5.0
BROMOMETHANE	10
CARBON TETRACHLORIDE	2.0
CHLOROBENZENE	5.0
CHLOROETHANE	5.0
CHLOROFORM	5.0
CHLOROMETHANE	10
DIBROMOCHLOROMETHANE	2.0
1,2-DIBROMOETHANE (EDB)	2.0
1,2-DICHLOROBENZENE	5.0
1,3-DICHLOROBENZENE	5.0
1,4-DICHLOROBENZENE	5.0
1,1-DICHLOROETHANE	3.0
1,2-DICHLOROETHANE (EDC)	5.0
1,1-DICHLOROETHENE	2.0
CIS-1,2-DICHLOROETHENE	2.0
TRANS-1,2-DICHLOROETHENE	10
1,2-DICHLOROPROPANE	2.0
CIS-1,3-DICHLOROPROPENE	2.0
TRANS-1,3-DICHLOROPROPENE	2.0
METHYLENE CHLORIDE	20
1,1,2,2-TETRACHLOROETHANE	5.0
TETRACHLOROETHENE	5.0
1,1,1-TRICHLOROETHANE	10
1,1,2-TRICHLOROETHANE	2.0
TRICHLOROETHENE	3.0
TRICHLOROFLUOROMETHANE	2.0
VINYL CHLORIDE	5.0

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604404

AEN'S DETECTION LIMITS FOR METHOD 8010-AQUEOUS
25X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	5.0
BROMOFORM	13
BROMOMETHANE	25
CARBON TETRACHLORIDE	5.0
CHLOROBENZENE	13
CHLOROETHANE	13
CHLOROFORM	13
CHLOROMETHANE	25
DIBROMOCHLOROMETHANE	5.0
1,2-DIBROMOETHANE (EDB)	5.0
1,2-DICHLOROBENZENE	13
1,3-DICHLOROBENZENE	13
1,4-DICHLOROBENZENE	13
1,1-DICHLOROETHANE	7.5
1,2-DICHLOROETHANE (EDC)	13
1,1-DICHLOROETHENE	5.0
CIS-1,2-DICHLOROETHENE	5.0
TRANS-1,2-DICHLOROETHENE	25
1,2-DICHLOROPROPANE	5.0
CIS-1,3-DICHLOROPROPENE	5.0
TRANS-1,3-DICHLOROPROPENE	5.0
METHYLENE CHLORIDE	50
1,1,2,2-TETRACHLOROETHANE	13
TETRACHLOROETHENE	13
1,1,1-TRICHLOROETHANE	25
1,1,2-TRICHLOROETHANE	5.0
TRICHLOROETHENE	7.5
TRICHLOROFLUOROMETHANE	5.0
VINYL CHLORIDE	13

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604404

AEN'S DETECTION LIMITS FOR METHOD 8010-AQUEOUS
100X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	20
BROMOFORM	50
BROMOMETHANE	100
CARBON TETRACHLORIDE	20
CHLOROBENZENE	50
CHLOROETHANE	50
CHLOROFORM	50
CHLOROMETHANE	100
DIBROMOCHLOROMETHANE	20
1,2-DIBROMOETHANE (EDB)	20
1,2-DICHLOROBENZENE	50
1,3-DICHLOROBENZENE	50
1,4-DICHLOROBENZENE	50
1,1-DICHLOROETHANE	30
1,2-DICHLOROETHANE (EDC)	50
1,1-DICHLOROETHENE	20
CIS-1,2-DICHLOROETHENE	20
TRANS-1,2-DICHLOROETHENE	100
1,2-DICHLOROPROPANE	20
CIS-1,3-DICHLOROPROPENE	20
TRANS-1,3-DICHLOROPROPENE	20
METHYLENE CHLORIDE	200
1,1,2,2-TETRACHLOROETHANE	50
TETRACHLOROETHENE	50
1,1,1-TRICHLOROETHANE	100
1,1,2-TRICHLOROETHANE	20
TRICHLOROETHENE	30
TRICHLOROFLUOROMETHANE	20
VINYL CHLORIDE	50

American Environmental Network, Inc.

CLIENT: SPARTON TECHNOLOGY, INC.
AEN ACCESSSION #: 604404

AEN'S DETECTION LIMITS FOR METHOD 8010-AQUEOUS
500X DILUTION

COMPOUND	DETECTION LIMIT (UG/L)
BROMODICHLOROMETHANE	100
BROMOFORM	250
BROMOMETHANE	500
CARBON TETRACHLORIDE	100
CHLOROBENZENE	250
CHLOROETHANE	250
CHLOROFORM	250
CHLOROMETHANE	500
DIBROMOCHLOROMETHANE	100
1,2-DIBROMOETHANE (EDB)	100
1,2-DICHLOROBENZENE	250
1,3-DICHLOROBENZENE	250
1,4-DICHLOROBENZENE	250
1,1-DICHLOROETHANE	150
1,2-DICHLOROETHANE (EDC)	250
1,1-DICHLOROETHENE	100
CIS-1,2-DICHLOROETHENE	100
TRANS-1,2-DICHLOROETHENE	500
1,2-DICHLOROPROPANE	100
CIS-1,3-DICHLOROPROPENE	100
TRANS-1,3-DICHLOROPROPENE	100
METHYLENE CHLORIDE	1000
1,1,2,2-TETRACHLOROETHANE	250
TETRACHLOROETHENE	250
1,1,1-TRICHLOROETHANE	500
1,1,2-TRICHLOROETHANE	100
TRICHLOROETHENE	150
TRICHLOROFLUOROMETHANE	100
VINYL CHLORIDE	250

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY INC.	AEN I.D.	: 604404
PROJECT #	: 042596	DATE RECEIVED	: 04/25/96
PROJECT NAME	: AGMP-2Q96	DATE ANALYZED	: 04/25/96
		SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	01	02
PH (150.1)	UNITS	7.50	7.95

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECHNOLOGY INC. AEN I.D. : 604404
PROJECT # : 042596 SAMPLE MATRIX : AQUEOUS
PROJECT NAME : AGMP-2Q96

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	RPD
PH	UNITS	60440102	7.95	7.96	0.1

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

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

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 604539
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604404
Project Name: SPARTON TECHNOLOGY INC.
Project Location: AGMP-2Q96
Test: Group of Single Wetchem
Matrix: WATER
QC Level: II

Lab ID: 001
Client Sample Id: 604404-01
Sample Date/Time: 25-APR-96 1254
Received Date: 26-APR-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
CONDUCTIVITY (120.1)	UMH/CM	710	1		CDW016	RB

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 604539
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604404
Project Name: SPARTON TECHNOLOGY INC.
Project Location: AGMP-2Q96
Test: Group of Single Wetchem
Matrix: WATER
QC Level: II

Lab ID: 002
Client Sample Id: 604404-02
Sample Date/Time: 25-APR-96 1417
Received Date: 26-APR-96

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
CONDUCTIVITY (120.1)	UMH/CM	1000	1		CDW016	RB

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 604539
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604404
Project Name: SPARTON TECHNOLOGY INC.
Project Location: AGMP-2Q96
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
604404-01	CONDUCTIVITY (120.1)	UMH/CM	710
604404-02	CONDUCTIVITY (120.1)	UMH/CM	1000

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	604539
Client:	AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number:	604404
Project Name:	SPARTON TECHNOLOGY INC.
Project Location:	AGMP-2Q96
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	25-APR-96 1417
Client Sample Id:	604404-02	Received Date:	26-APR-96
Batch: TOW025		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	06-MAY-96

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

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 604539
Client: AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO
Project Number: 604404
Project Name: SPARTON TECHNOLOGY INC.
Project Location: AGMP-2Q96
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
604404-02	TOTAL ORGANIC CARBON	MG/L	1

American Environmental Network, Inc.

"WetChem Quality Control Report"

Parameter:	CONDUCT'Y
Batch Id:	CDW016
Blank Result:	<1
Anal. Method:	120.1
Prep. Method:	N/A
Analysis Date:	02-MAY-96
Prep. Date:	02-MAY-96

Sample Duplication

Sample Dup:	604539-1
Rept Limit:	<1
Sample Result:	706
Dup Result:	706
Sample RPD:	0
Max RPD:	4
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	N/A
Rept Limit:	N/A
Sample Result:	
Spiked Result:	
Spike Added:	
% Recovery:	
% Rec Limits:	
Dry Weight%	

ICV

ICV Result:	1415
True Result:	1413
% Recovery:	100
% Rec Limits:	90-110

LCS

LCS Result:	291
True Result:	303
% Recovery:	96
% Rec Limits:	84-110

American Environmental Network, Inc.

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

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI 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 ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.

(CA) = SEE CORRECTIVE ACTIONS FORM.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, 17TH ED., 1989
NIOSH Manual of Analytical Methods, 3rd Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991.

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. IF FLASHPOINT IS LESS THAN 25 DEGREES CELSIUS, THE DETECTION LIMIT BECOMES THE INITIAL STARTING TEMPERATURE.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).

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

DPH = DOLLY P. HWANG	SG = SCOTT GRESHAM	RB = REBECCA BROWN
NC = NICOLE CALL	NSB = NANCY S. BUTLER	MM = MARY MOLONEY
CF = CHRISTINE FOSTER	ED = ESTHER DANTIN	AB = ANDY BROTHERTON
PLD = PAULA L. DOUGHTY	RH = RICKY HAGENDORFER	BH = BARRY HICK

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

Blank Id: A Date Analyzed: 06-MAY-96 Date Extracted: N/A

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

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Reagent
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

RS Date Analyzed: 06-MAY-96
RSD Date Analyzed: 06-MAY-96

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.5	97	6.0	90	7	30	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.

American Environmental Network, Inc.

"QC Report"

Title: Water Matrix
Batch: TOW025
Analysis Method: 415.1 / EPA 600 / 04-79-020, Rev. March 1983
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 604538-1

MS Date Analyzed: 06-MAY-96
MSD Date Analyzed: 06-MAY-96

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	8.4	125	8.3	124	1	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
D = DILUTED OUT
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 DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

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

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

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

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

LJT = LISA THOMASON
SW = STEVE WILHITE
KW = KAREN WADSWORTH
PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
BV = BEN VAUGHN
BC = BETH COLEMAN
KS = KENDALL SMITH
KK = KERRY KUST
DWB = DAVID W. BOWERS
RP = ROB PEREZ

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604404
PROJECT # : 042596
PROJECT NAME : AGMP-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-22	AQUEOUS	04/25/96	NA	04/29/96	1
02	MW-16	AQUEOUS	04/25/96	NA	05/02/96	1

PARAMETER	UNITS	01	02
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2
BROMOFORM	**UG/L**	<0.5	**1.1**
BROMOMETHANE	UG/L	<1.0	<1.0
CARBON TETRACHLORIDE	**UG/L**	<0.2	**0.7**
CHLOROBENZENE	**UG/L**	<0.5	**1.8**
CHLOROETHANE	UG/L	<0.5	<0.5
CHLOROFORM	**UG/L**	<0.5	**3.9**
CHLOROMETHANE	UG/L	<1.0	<1.0
DIBROMOCHLOROMETHANE	**UG/L**	<0.2	**0.8**
1,2-DIBROMOETHANE (EDB)	**UG/L**	<0.2	**1.0**
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5
1,1-DICHLOROETHANE	**UG/L**	<0.3	**3.0**
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5
1,1-DICHLOROETHENE	**UG/L**	**9.2**	**110 D(25)**
CIS-1,2-DICHLOROETHENE	**UG/L**	<0.2	**0.3**
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0
1,2-DICHLOROPROPANE	**UG/L**	<0.2	**0.3**
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2
METHYLENE CHLORIDE	**UG/L**	<2.0	**3.0**
1,1,2,2-TETRACHLOROETHANE	**UG/L**	<0.5	**0.6**
TETRACHLOROETHENE	**UG/L**	**1.3**	**56 D(25)**
1,1,1-TRICHLOROETHANE	**UG/L**	**43 D(10)**	**1200 D(100)**
1,1,2-TRICHLOROETHANE	**UG/L**	<0.2	**5.2**
TRICHLOROETHENE	**UG/L**	**81 D(10)**	**9700 D(500)**
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5
SURROGATE:			
BROMOCHLOROMETHANE (%)		89	84

D(10)=DILUTED 10X, ANALYZED 05/01/96
D(25)=DILUTED 25X, ANALYZED 05/02/96
D(100)=DILUTED 100X, ANALYZED 05/07/96
D(500)=DILUTED 500X, ANALYZED 05/02/96

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604404
BLANK I.D.	: 042996	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 04/29/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	90

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604404
BLANK I.D.	: 043096	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 04/30/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	89

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604404
BLANK I.D.	: 050196	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 05/01/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	92

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604404
BLANK I.D.	: 050296	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 05/02/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	89

American Environmental Network, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 8010	AEN I.D.	: 604404
BLANK I.D.	: 050796	MATRIX	: AQUEOUS
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 05/07/96
PROJECT NAME	: AGMP-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BROMODICHLOROMETHANE	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	<0.2
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 (%)	87

American Environmental Network, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 60440109	AEN I.D.	: 604404
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 042596	DATE ANALYZED	: 05/02/96
PROJECT NAME	: AGMP-2Q96	SAMPLE MATRIX	: AQUEOUS
REF. I.D.	: 60440109	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC
CHLOROBENZENE	<0.5	10.0	12.0	120	11.9	119
1,1-DICHLOROETHENE	<0.2	10.0	8.9	89	8.5	85
TRICHLOROETHENE	<0.3	10.0	12.4	124	12.5	125

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

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

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

May 10, 1996

Ms. Kimberly McNeill
American Environmental Network, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

RE: Paragon Workorder: 96-04-172
Client Project Name: AGMP
Client Project Number: 604404

Dear Ms. McNeill,

Two water samples were received from American Environmental Network, Inc. on April 26, 1996. The samples were scheduled for Total Organic Halide and Total Organic Carbon analysis. The results for these analyses are contained in the enclosed report.

Should you have any questions, please call.

Sincerely,

John Whalen

Paragon Analytics, Inc.
John Whalen
Project Manager

JW/drb
Enclosure: report

ORGANIC CARBON CASE NARRATIVE

Client ID	PAI-ID
MW-22	96-04-172-01

1. This report consists of one water sample.

2. Sample was received cool and intact on April 26, 1996.

3. Sample had been correctly preserved for the requested analyses.

4. The sample was prepared for analysis based on method 415.2-Total Organic Carbon, and a method for the Dohrman DC-80 Total Organic Carbon System.

   Water samples were acidified by lowering the pH to less than two using sulfuric acid. The samples were sparged with oxygen for about ten minutes just prior to injection into the instrument to remove inorganic carbon. All samples were analyzed in duplicate. Analysis was performed by injecting a known volume of sample into the reaction cell of the Dohrman DC-80 Carbon Analyzer. Organic carbon was oxidized to CO2 in the reaction cell. The CO2 was stripped from the reaction cell by purging with oxygen and was measured using an infrared absorbance detector. Quantitations were based on a five point calibration curve which was run at the beginning of the analytical sequence.

5. All standards and solutions were used within their recommended shelf life.

6. Sample was prepared and analyzed within the established hold time.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.
   - A reagent blank was prepared and analyzed with this batch of samples and was below reporting limits in TOC.
   - A second source (DEMAND) standard at 20.45ppm was run every ten injections to ensure the calibration curve is correct and that the instrument is continually running within working parameters.

The data contained in the following report have been reviewed and approved by the personnel listed below:

PK	05/10/96
Analyst's Initials	Date
Steve Wrbman	5/10/96
Reviewer	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

TOTAL ORGANIC CARBON

Method 415.2

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Client Project ID: AGMP--604404
Lab Workorder Number: 96-04-172

Date Collected: 04/25/96
Date Analyzed: 05/10/96

Sample Matrix: Water

Sample ID	Lab Sample ID	Volume Injected (mL)	TOC Conc. (mg/L)	TOC AVG	RPD
Reagent Blank	RB 96-04-172	1	< 1	< 1	N/A
MW-22	96-04-172-01	1	2		
	96-04-172-01DUP	1	2	2	0

Paragon Analytics, Inc.

TOTAL ORGANIC HALIDE CASE NARRATIVE

Client ID	PAI-ID
MW-22	96-04-172-01
MW-16	96-04-172-02

1. This report consists of two water samples.

2. Samples were received cool and intact on April 26, 1996.

3. Samples had been correctly preserved for the requested analyses.

4. The samples were prepared for analysis based on SW-846, 3rd Edition procedures (9020).

   A sample of water that has been protected against the loss of volatiles by the elimination of head space in the sampling container and that is free of undissolved solids is run through two micro-columns containing granular activated carbon (GAC). The sample containing GAC is then rinsed with a nitrate wash to eliminate any organic halide that may be present. After the rinse is complete the GAC is combusted--in a separate burn for each column--to form hydrogen halide (HX) that is coulometrically titrated with silver ion. An electric potential is applied to a solid silver electrode to produce silver ions in the cell. The current produced is integrated over the combustion period. The measurement of the total current required to replace the consumed silver ion and maintain a constant silver ion concentration in the cell is a direct measure of the organic halogen present in the combusted sample. The mass concentration of organic halides is reported as an equivalent concentration of organically bound chlorine. This SOP requires that all samples be analyzed in duplicate.

5. All standards and solutions were used within their recommended shelf life.

6. All samples were prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.
   - A preparation (method) blank was extracted and analyzed with the samples in this batch and was below the reporting limits for total organic halides.
   - All initial and continuing calibration verifications associated with this batch were in sequence and within acceptance criteria for total organic halides. This indicates a valid calibration and stable instrument conditions.

The data contained in the following report have been reviewed and approved by the personnel listed below:

TAL	05/09/96
Analyst's Initials	Date
Steve Wrchman	5/9/96
Reviewer	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

TOTAL ORGANIC HALIDE

Method 9020 TOX

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Client Project ID: AGMP--604404
Lab Workorder Number: 96-04-172

Date Collected: 04/25/96
Date Extracted: 05/01,08/96
Date Analyzed: 05/01,08/96

Sample Matrix: Water

Sample ID	Lab Sample ID	Sample Volume (mL)	TOX Conc. (ug/L)	TOX Detection Limit
Reagent Blank	WRB96-04-172	100	<10	10
MW-22	96-04-172-01	100	80	10
MW-16	96-04-172-02	1	1400	10

TOTAL ORGANIC HALIDE MATRIX SPIKE RESULTS

Method 9020 TOX

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Lab Sample ID: 96-04-125-01

Sample ID

In House

Sample Matrix: Water

Date Extracted: 05/01/96
Date Analyzed: 05/01/96

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS Percent Recovery
2,4,6-Trichlorophenol	50	<10	57	114

TOTAL ORGANIC HALIDE MATRIX SPIKE RESULTS

Method 9020 TOX

Sample ID

MW-16

Lab Name: Paragon Analytics, Inc.
Client Name: AEN-NM
Lab Sample ID: 96-04-172-02

Sample Matrix: Water

Date Extracted: 05/08/96
Date Analyzed: 05/08/96

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS Percent Recovery
2,4,6-Trichlorophenol	20000	1420	20800	97

AnalyticalTechnologies of New Mexico, Inc.
Albuquerque, New Mexico

Interlab Chain of Custody

96-04-172

DATE: 4/25 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: Analytical Technologies of New Mexico, Inc.
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: K. 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)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
604404-01	4/25	1254	AQ	01							X																						
-02	✓	1417	✓	02							X																						

PROJECT INFORMATION	
PROJECT NUMBER:	604404
PROJECT NAME:	AGMP
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: 5/13
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐YES ☐NO

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time:
Printed Name: John Caldwell Date: 4/25/96	Printed Name: Date:
Analytical Technologies of New Mexico, Inc. Albuquerque	Company: Fedex
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 900
Printed Name: Date:	Printed Name: Date: 4/26/96
Company: Fedex	Company: Dunger

Paragon Analytics - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: ATN-NM SHIPPING CONTAINER #: Cooler

WORKORDER NO. 96-04-172 INITIALS: [illegible] DATE: 4/26/96

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number _____		Yes	(No)
2.	Are custody seals on the cooler intact? If so, how many _____	(N/A)	Yes	No
3.	Are custody seals on sample containers intact?	(N/A)	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		(Yes)	No
5.	Is the COC complete? Relinquished: Yes ✓ No___ Requested Analysis: Yes ✓ No___		(Yes)	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___		(Yes)	No
7.	Are the samples preserved correctly?	N/A	(Yes)	No
8.	Is there enough sample? If so, are they in the proper containers?		(Yes)	No
9.	Are all samples within holding times for the requested analyses?		(Yes)	No
10.	Were the sample received on ice?	N/A	(Yes)	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		(Yes)	No
12.	Are samples requiring no headspace, headspace free?	(N/A)	Yes	No
13.	Do the samples require quarantine?		Yes	(No)
14.	Do samples require ATI disposal?		Yes	(No)
15.	Did the client return any unused bottles?		Yes	(No)

Describe "NO" items (except No's 1, 13, &14):_____

Was the client contacted? Yes____ No____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature: [signature] Date: 4-26-96

Cooler Temperature: -2°c

ATI FRM 201FCS (2/21/96)

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

CHAIN OF CUSTODY

DATE: 4-25-96 PAGE 1 OF 1

ATI LAB I.D. 604404

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

PROJECT MANAGER: John M. Wakefield

COMPANY: Spanton Technology Inc.
ADDRESS: 9621 Coors Rd. NW
Albuquerque NM 87124
PHONE: 505-892-5300
FAX: 505-892-5515

BILL TO: "
COMPANY: "
ADDRESS: 4901 Rockaway Blvd.
Rio Rancho NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	pH	Electrical Conductivity	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	TOX	TOC	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
MW-22	4-25-96	1254	H_2O	-01					X	X	X			X	X																	7
MW-16	"	1417	"	-02					X	X	X			X	X																	7

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.: 042596		NO. CONTAINERS	14
PROJ. NAME: AGMP-2Q96		CUSTODY SEALS	Y (N) NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA: Delivered		RECEIVED COLD	17°

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

Comments:

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 15:21	Signature: Time:	Signature: Time:
Printed Name: John M. Wakefield Date: 4-26-96	Printed Name: Date:	Printed Name: Date:
Company: STI Phone: 892-5300	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1521
Printed Name: Date:	Printed Name: Date:	Printed Name: John Cardwell Date: 4/25/96
Company:	Company:	Analytical Technologies, Inc.

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

AnalyticalTechnologies of New Mexico, Inc.
Albuquerque, New Mexico

Interlab Chain of Custody

604539 DATE: 4/25 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: Analytical Technologies of New Mexico, Inc.
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: K. McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)		EC	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)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
604404 -01	4/25	1254	AQ	1						X		X																					
-02	↓	1411	↓	2						X		X																					

PROJECT INFORMATION	
PROJECT NUMBER:	604404
PROJECT NAME:	AGMP
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	604539

DUE DATE: 5/13
RUSH SURCHARGE:
CLIENT DISCOUNT:
CERTIFICATION REQUIRED: ☐YES ☐NO

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 1700	Signature: Time
Printed Name: John Caldwell Date: 4/25/96	Printed Name: Date:
Analytical Technologies of New Mexico, Inc. Albuquerque	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: [signature] Time: 0900	Signature: Time:
Printed Name: R. ELSPERMANN Date: 4/26/96	Printed Name: Date:
Company: AEN-FL	Company: