SPARTON

SPARTON TECHNOLOGY

October 9, 1997

Mr. Michael A. Hebert, P.E.
Technical Section (6EN-HX)
Hazardous Waste Enforcement Branch
U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas Texas, 75202-2733

Re: Ground Water Monitoring Data 3rd Quarter 1997.

Dear Mr. Hebert:

Enclosed are copies of AEN Lab Reports 708371, 708372, 708375, 708376 and 708377 with SGMP and AGMP results for Sparton Technology's 3rd Quarter 1997 sampling event. These samples were collected by Sparton and Metric Corp. personnel on August 19, through August 22, 1997. AEN Lab Report No. 708375 contains data for a split sampling event on selected wells conducted with Mr. Rob Pine of NMED- WQB.

If you have any questions please contact me at (505) 892-5300.

Sincerely,
SPARTON TECHNOLOGY, INC.

R D Mico

Richard D. Mico
Vice President and General Manager

cc: Mr. R. Pine: NMED-GWQB
(wo. lab rpts.)
Mr. J. Appel
Mr. P. Chandler
Mr. J. Wakefield

Enclosure not Found

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

American Environmental Network, Inc.

AGMP - 3Q 1997
Annual Parameters.
MW-19, 20, TB PZ-2 = Field Blank
MW-9 Rec 9-22-97

AEN I.D. 708371

September 12, 1997

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

Project Name AGMP-3Q97-AP
Project Number 082097-A

Attention: JOHN M. WAKEFIELD

On 8/20/97 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 8240 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium was performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other parameters were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

007560

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708371
PROJECT #	: 082097-A	DATE RECEIVED	: 8/20/97
PROJECT NAME	: AGMP-3Q97-AP	REPORT DATE	: 9/12/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-19	AQ	8/20/97
02	MW-20	AQ	8/20/97
03	TRIP BLANK	AQ	8/7/97
04	PZ-2	AQ	8/20/97
05	MW-9	AQ	8/20/97

007561

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-01	MW-19	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**1.0**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**13**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-01	MW-19	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (76 - 114)
Toluene-d8	96 (88 - 110)
Bromofluorobenzene	100 (86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-02	MW-20	AQUEOUS	8/20/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**1.1**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-02	MW-20	AQUEOUS	8/20/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	95	(88 - 110)
Bromofluorobenzene	102	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-03	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	**2.0**	**ug/L**
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-03	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	103	(76 - 114)
Toluene-d8	91	(88 - 110)
Bromofluorobenzene	110	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-04	PZ-2	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	**1.4**	**ug/L**
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	**1.1**	**ug/L**
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-04	PZ-2	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	101 (76 - 114)
Toluene-d8	97 (88 - 110)
Bromofluorobenzene	96 (86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-05	MW-9	AQUEOUS	8/20/97	N/A	08/21/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**32**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	**93**	**ug/L**
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**36**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**390**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	< 5.0	ug/L
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-05	MW-9	AQUEOUS	8/20/97	N/A	08/21/97	5

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	114	(76 - 114)
Toluene-d8	88	(88 - 110)
Bromofluorobenzene	100	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-06	REF BLANK	AQUEOUS	8/7/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-06	REF BLANK	AQUEOUS	8/7/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS

REFRIGERATOR BLANK RUN IN LIEU OF A TRIP BLANK. TRIP BLANK WAS NOT REVEIVED BY LABORATORY, BUT REFRIGERATOR BLANK MADE AT SAME TIME.

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	104
	(76 - 114)
Toluene-d8	93
	(88 - 110)
Bromofluorobenzene	91
	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082197	AQUEOUS	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082197	AQUEOUS	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	98	(76 - 114)
Toluene-d8	106	(88 - 110)
Bromofluorobenzene	96	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	105
	(76 - 114)
Toluene-d8	88
	(88 - 110)
Bromofluorobenzene	111
	(86 - 115)

American Environmental Network, Inc.

Preliminary Results
Final report will be issued following data review

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

Preliminary Results
Final report will be issued following data review

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY

1,2-Dichloroethane-d4	92 (76 - 114)
Toluene-d8	98 (88 - 110)
Bromofluorobenzene	90 (86 - 115)

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S1.D	082697S2.D
Sample :	BS	BS
Acq Time:	26 Aug 97 3:49 pm	26 Aug 97 4:23 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	48	49	97	99	2	14	61-145
Benzene	0.1	50	49	50	97	101	3	11	76-127
Trichloroethene	0.0	50	50	53	100	106	6	14	71-120
Toluene	0.2	50	53	47	106	93	13	13	76-125
Chlorobenzene	0.1	50	51	52	103	104	2	13	75-130

- Fails Limit Check

8260822.M Wed Aug 27 08:13:57 1997

American Environmental Network, Inc.

AEN I.D. 708348

August 26, 1997

American Environmental Network-NM
2709-D Pan American Frwy, Ne
Albuquerque, NM 87107

Project Name/Number: AGMP-3097-AP/082097-A

Attention: Kimberly D. McNeill

On 08/20/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager
LE/acc
Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/20/97
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP REPORT DATE : 08/26/97
ATI I.D. : 708348

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708371-01	AQUEOUS	08/20/97
02	708371-02	AQUEOUS	08/20/97
03	708371-03	AQUEOUS	08/20/97
04	708371-04	AQUEOUS	08/20/97
05	708371-05	AQUEOUS	08/20/97

==========

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	5

ATI STANDARD DISPOSAL PRACTICE

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

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708348

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP

DATE RECEIVED : 08/20/97
REPORT DATE : 08/26/97

PARAMETER	UNITS	01	02	03	04	05
CHROMIUM HEXAVALENT (SM 3500	MG/L	<0.02	<0.02	<0.02	<0.02	<0.02

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP ATI I.D. : 708348

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70834801	<0.02	<0.02	NA	0.15	0.15	100

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

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

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708348

26-Aug-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/20/97	CARLENE MCCUTCHEON
	02	08/20/97	CARLENE MCCUTCHEON
	03	08/20/97	CARLENE MCCUTCHEON
	04	08/20/97	CARLENE MCCUTCHEON
	05	08/20/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

007585

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-20-97 PAGE: 1 OF 1

AEN LAB I.D. 708537

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd, NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515
BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

ANALYSIS REQUESTED

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond. Cl, SO4 1	General Chemistry:	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3 6	TOC 6	
MW-19	8-20-97	1417	H2O	01			X							X			X		X				X		X	X					X	X	
MW-20	"	1504	"	02			X							X			X		X				X		X	X					X	X	
Trip Blank	8-7-97	11:55	H2O	03			X							X			X		X				X		X	X					X	X	
PZ-2	8-20-97	1355	H2O	04			X							X			X		X				X		X	X					X	X	
MW-9	"	1525	"	05			X							X			X		X				X		X	X					X	X	

PROJECT INFORMATION

PROJ. NO.: AGMP-082097-A
PROJ. NAME: AGMP-3097-AP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. OF CONTAINERS
CUSTODY SEALS
RECEIVED INTACT
BLUE ICE/ICE 18

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler
Recived By
Corrina L Dewey 1840
Corrina L Dewey 8/20/97
From Field Direct

RELINQUISHED BY: 1.
Signature: [signature] Time: 1355
Printed Name: John Wakefield Date: 8-20-97
Company: S.T.I. 892-5300

RECEIVED BY:
Signature: [signature] Time: 1555
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RELINQUISHED BY: 2.
Signature: [signature] Time: 1627
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RECEIVED BY (LAB):

4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107

DISTRIBUTION White, Canary - AEN Pink - ORIGINATOR

007586

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-20-97 PAGE 1 OF 1

007587

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry	Cr Hexavalent	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
708371-01	8-20-97	1417	AQ											X																		
-02		1504												X																		
-03	8-7-97	11:55												X																		
-04	8-20-97	1355												X																		
-05		1525												X																		

PROJECT INFORMATION

PROJECT NUMBER: 708371-01
[illegible]: Sparkler tech

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS
[illegible]

SPECIAL [illegible] Yes No

SAMPLES SENT TO:

SAN DIEGO
Paragon
[illegible]

RELINQUISHED BY: 1.

Signature: [illegible] Time: 1700
Printed Name: [illegible] Date: 8-20-97
Company
1.

RELINQUISHED BY: 2.

Signature Time
Printed Name Date
Company
2.

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708371
Project Location:	AGMP-3Q97-AP
Accession Number:	708344
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
PH (150.1)	UNITS	7.6	NA	PHW174	
Comments:					
Client ID: 708371-02			Lab ID: 002		
PH (150.1)	UNITS	7.8	NA	PHW174	
Comments:					
Client ID: 708371-03			Lab ID: 003		
PH (150.1)	UNITS	5.8	NA	PHW174	
Comments:					
Client ID: 708371-04			Lab ID: 004		
PH (150.1)	UNITS	5.8	NA	PHW174	
Comments:					
Client ID: 708371-05			Lab ID: 005		
PH (150.1)	UNITS	7.7	NA	PHW174	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708371-01	001 WATER	20-AUG-97 1417	21-AUG-97
708371-02	002 WATER	20-AUG-97 1504	21-AUG-97
708371-03	003 WATER	20-AUG-97 1155	21-AUG-97
708371-04	004 WATER	20-AUG-97 1355	21-AUG-97
708371-05	005 WATER	20-AUG-97 1525	21-AUG-97

"Method Report Summary"

Accession Number: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	PH (150.1)	UNITS	7.6
708371-02	PH (150.1)	UNITS	7.8
708371-03	PH (150.1)	UNITS	5.8
708371-04	PH (150.1)	UNITS	5.8
708371-05	PH (150.1)	UNITS	7.7

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7	0.1	NONE	
Comments:					
Client ID: 708371-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3	0.1	NONE	
Comments:					
Client ID: 708371-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708371-04			Lab ID: 004		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.1	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.1	0.1	NONE	
Comments:					
Client ID: 708371-05			Lab ID: 005		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708371-01	001	WATER	20-AUG-97 1417	21-AUG-97
708371-02	002	WATER	20-AUG-97 1504	21-AUG-97
708371-03	003	WATER	20-AUG-97 1155	21-AUG-97
708371-04	004	WATER	20-AUG-97 1355	21-AUG-97
708371-05	005	WATER	20-AUG-97 1525	21-AUG-97

"Method Report Summary"

Accession Number: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7
708371-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3
708371-04	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.1
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.1

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	PH
Batch Id:	PHW174
Blank Result:	N/A
Anal. Method:	150.1
Prep. Method:	N/A
Analysis Date:	21-AUG-97
Prep. Date:	21-AUG-97

Sample Duplication

Sample Dup:	708344-1
Rept Limit:	N/A
Sample Result:	7.59
Dup Result:	7.59
Sample RPD:	0
Max RPD:	0.12
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:	10.04
True Result:	10.00
% Recovery:	100
% Rec Limits:	90-110

LCS

LCS Result:	7.01
True Result:	6.87
% Recovery:	102
% Rec Limits:	96-104

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W096	N3W50A
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	21-AUG-97	27-AUG-97
Prep. Date:	21-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708344-4	708302-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	<0.1
Dup Result:	<0.1	<0.1
Sample RPD:	N/C	N/C
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708344-4	708302-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	<0.1
Spiked Result:	0.21	1.05
Spike Added:	0.20	1.00
% Recovery:	105	105
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	2.01
True Result:	0.20	2.00
% Recovery:	100	101
% Rec Limits:	90-110	90-110

LCS

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

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

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METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
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RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708344 Date Received: 21-Aug-97

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

Airbill Number(s): 291 8404 456

Shipped By: FEDEX

Cooler Number(s): N/S
Client Cooler

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 3°C - CCR4
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PJE Date: 8/21/97 Logged By: PJE Date: 8/21/97

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

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

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

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

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708371
Project Location:	AGMP-3Q97-AP
Accession Number:	708383
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	19	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	750	1	CDW018	
SULFATE (375.4)	MG/L	120	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	18	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	640	1	CDW018	
SULFATE (375.4)	MG/L	86	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	2	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	4	1	CDW018	
SULFATE (375.4)	MG/L	ND	10	SEW069	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-04			Lab ID: 004		
CHLORIDE (325.3)	MG/L	2	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW018	
SULFATE (375.4)	MG/L	ND	10	SEW069	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-05			Lab ID: 005		
CHLORIDE (325.3)	MG/L	6	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	660	1	CDW018	
SULFATE (375.4)	MG/L	100	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.8	0.5	TAW41D	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708371-01	001	WATER	20-AUG-97 1417	22-AUG-97
708371-02	002	WATER	20-AUG-97 1504	22-AUG-97
708371-03	003	WATER	20-AUG-97 1155	22-AUG-97
708371-04	004	WATER	20-AUG-97 1355	22-AUG-97
708371-05	005	WATER	20-AUG-97 1525	22-AUG-97

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	CHLORIDE (325.3)	MG/L	19
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	750
	SULFATE (375.4)	MG/L	120
708371-02	CHLORIDE (325.3)	MG/L	18
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	640
	SULFATE (375.4)	MG/L	86
708371-03	CHLORIDE (325.3)	MG/L	2
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	4
708371-04	CHLORIDE (325.3)	MG/L	2
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3
708371-05	CHLORIDE (325.3)	MG/L	6
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	660
	SULFATE (375.4)	MG/L	100
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.8

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	METALS

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID:001		
BORON (200.7)	MG/L	0.13	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.01	0.01	G0W214	
SODIUM (200.7)	MG/L	52	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-02			Lab ID:002		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.83	0.01	G0W214	
SODIUM (200.7)	MG/L	42	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-03			Lab ID:003		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	ND	0.01	G0W214	
SODIUM (200.7)	MG/L	ND	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-04			Lab ID:004		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	0.03	0.01	H0W214	
MANGANESE (200.7)	MG/L	ND	0.01	G0W214	
SODIUM (200.7)	MG/L	ND	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-05			Lab ID:005		
BORON (200.7)	MG/L	1.4	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.02	0.01	G0W214	
SODIUM (200.7)	MG/L	64	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708371-01	001	WATER	20-AUG-97 1417	22-AUG-97
708371-02	002	WATER	20-AUG-97 1504	22-AUG-97
708371-03	003	WATER	20-AUG-97 1155	22-AUG-97
708371-04	004	WATER	20-AUG-97 1355	22-AUG-97
708371-05	005	WATER	20-AUG-97 1525	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	BORON (200.7)	MG/L	0.13
	MANGANESE (200.7)	MG/L	0.01
	SODIUM (200.7)	MG/L	52
708371-02	MANGANESE (200.7)	MG/L	0.83
	SODIUM (200.7)	MG/L	42
708371-04	CHROMIUM (200.7)	MG/L	0.03
708371-05	BORON (200.7)	MG/L	1.4
	MANGANESE (200.7)	MG/L	0.02
	SODIUM (200.7)	MG/L	64

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	20-AUG-97 1417
Client Sample Id:	708371-01	Received Date:	22-AUG-97
Batch: TOW079		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	28-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	20-AUG-97 1504
Client Sample Id:	708371-02	Received Date:	22-AUG-97
Batch: TOW079		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	28-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003
Client Sample Id: 708371-03

Sample Date/Time: 20-AUG-97 1155
Received Date: 22-AUG-97

Batch: TOW079
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 28-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	004	Sample Date/Time:	20-AUG-97 1355
Client Sample Id:	708371-04	Received Date:	22-AUG-97
Batch: TOW079		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	28-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005
Client Sample Id: 708371-05

Sample Date/Time: 20-AUG-97 1525
Received Date: 22-AUG-97

Batch: TOW079
Blank: A

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 28-AUG-97

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708371-02	TOTAL ORGANIC CARBON	MG/L	2
708371-05	TOTAL ORGANIC CARBON	MG/L	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001
Client Sample Id: 708371-01

Sample Date/Time: 20-AUG-97 1417
Received Date: 22-AUG-97

Batch: TXW042
Blank: A
Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 26-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.03	0.01	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002
Client Sample Id: 708371-02

Sample Date/Time: 20-AUG-97 1504
Received Date: 22-AUG-97

Batch: TXW042
Blank: B Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 27-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003
Client Sample Id: 708371-03
Sample Date/Time: 20-AUG-97 1155
Received Date: 22-AUG-97

Batch: TXW042
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 27-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 004
Client Sample Id: 708371-04
Sample Date/Time: 20-AUG-97 1355
Received Date: 22-AUG-97

Batch: TXW042
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 27-AUG-97

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005
Client Sample Id: 708371-05

Sample Date/Time: 20-AUG-97 1525
Received Date: 22-AUG-97

Batch: TXW042
Blank: B

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 27-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.54	0.01	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	TOTAL ORGANIC HALIDES	MG/L	0.03
708371-02	TOTAL ORGANIC HALIDES	MG/L	0.01
708371-05	TOTAL ORGANIC HALIDES	MG/L	0.54

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	SULFATE	TKN AUTO
Batch Id:	CIW081	CDW018	SEW069	TAW41D
Blank Result:	<1	<1	<10	<0.5
Anal. Method:	325.3	120.1	375.4	351.2
Prep. Method:	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	29-AUG-97	27-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	29-AUG-97	27-AUG-97	25-AUG-97
Sample Duplication				
Sample Dup:	708383-1	708383-3	708383-1	708383-1
Rept Limit:	<1	<1	<50+	<0.5
Sample Result:	18.7	4.4	116.5	<0.5
Dup Result:	18.9	4.4	115.5	<0.5
Sample RPD:	1	0G	1G	N/C
Max RPD:	6	1	50	0.5
Dry Weight%	N/A	N/A	N/A	N/A
Matrix Spike				
Sample Spiked:	708383-1	N/A	708383-1	708383-1
Rept Limit:	<1	N/A	<100+	<0.5
Sample Result:	18.7		116.5	<0.5
Spiked Result:	76.5		296.0	4.41
Spike Added:	55.0		200.0	4.00
% Recovery:	105		90	110
% Rec Limits:	88-113		64-150	64-122
Dry Weight%	N/A		N/A	N/A
ICV				
ICV Result:	93.5	1433	21.3	10.37
True Result:	100	1412	20.0	10.00
% Recovery:	94	101	107	104
% Rec Limits:	90-110	90-110	90-110	90-110
LCS				
LCS Result:				8.86
True Result:				10.00
% Recovery:				89
% Rec Limits:				67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W214	H0W214	G0W214	10W214	E0W214
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97	08-SEP-97	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	28-AUG-97	29-AUG-97
Sample Duplication					
Sample Dup:	708383-2	708383-2	708383-2	708383-3	708383-2
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.1	2.0	2.8	61	1.9
Dup Result:	2.0	2.0	2.8	61	1.9
Sample RPD:	5	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708383-2	708383-2	708383-2	708383-3	708383-2
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	<0.09	<0.01	0.83	42	0.02
Spiked Result:	2.1	2.0	2.8	61	1.9
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	105	100	99	95	94
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.0	5.0	4.9	25	4.8
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	100	100	98	100	96
% Rec Limits:	90-110	90-110	90-110	90-110	90-110
LCS					
LCS Result:	1.9	2.0	2.0	20	1.9
True Result:	2.0	2.0	2.0	20	2.0
% Recovery:	95	100	100	100	95
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

"Quality Control Comments"

Batch Id:	Comments:
O0W214	ANALYST: JLH
O0W214	The results reported under "Sample Duplication" are the MS/MSD.
H0W214	ANALYST: JLH
H0W214	The results reported under "Sample Duplication" are the MS/MSD.
G0W214	ANALYST: JLH
G0W214	The results reported under "Sample Duplication" are the MS/MSD.
G0W214	-
10W214	ANALYST: JLH
10W214	The results reported under "Sample Duplication" are the MS/MSD.
10W214	---
E0W214	ANALYST: JLH
E0W214	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

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

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

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

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

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

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 28-AUG-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Reagent
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 28-AUG-97
RSD Date Analyzed: 28-AUG-97

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	7.1	106	7.0	104	2	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 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708383-4

MS Date Analyzed: 28-AUG-97
MSD Date Analyzed: 28-AUG-97

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	7.0	104	7.0	104	0	30	51-135

Surrogates:

Comments:

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

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
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.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

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 LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

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

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

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 26-AUG-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708464-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

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

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	43.231	43.252	42*	43.251	40*	5	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

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

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

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

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

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

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

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

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708383 Date Received: 22-aug-97

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

Airbill Number(s): 2949975691/2949975213 Shipped By: FEDEX

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

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

7. Sample 708371-01 was received with a broken cap, enough remained for analysis.
10. HXCR for all samples was received out of hold time.

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PHE Date: 8/22/97 Logged By: PHE Date: 8/22/97

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

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

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

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

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr TC		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
708375-05	8-21	1336	AQ	1					X																								

PROJECT INFORMATION
PROJECT NUMBER: 708375

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS
COLD
708371

SAMPLES SENT TO:
SAN DIEGO
Paragon

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Pecar Date: 8-21-97
Albuquerque NM

RECEIVED BY: 1.
Signature: Time:
Date:

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

RECEIVED BY: (LAB) 2.
Time: 1340
Corrina L Dewey
8-21-97
Corrina L Dewey
Company:

007645

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

American Environmental Network (NM), Inc.

Albuquerque • Farmington • Las Cruces • Roswell

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

Project Manager: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons	(MOD.8015) Diesel/Diesel	TOX, TOC	(M8015) Gas/Purge &	Gasoline/BTEX & MTBE	BTXE/MTBE (8020)	BTEX & Chlorinated	BTEX/MTBE/EDC & EDB	Chlorinated Hydrocarbons	Nitrate, Nitrite	504 EDB	Polynuclear Aromatics	Volatile Organics (624)	Volatile Organics (E	TKN	Pesticides/PCB (608)	Herbicides (615/8151)	Base/Neutral/Acid Compounds	pH, Elec. Cond.	General Chemistry	Hardness, Br	Carbonate, C	Priority Pollutant Metals	Target Analyte List	RCRA Metals (8)	RCRA Metals by T	Metals: Ba, Mn, Cr+6	NUMBER OF CONTAINERS
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X						
MW-65	"	0928	"	-02										X			X							X	X	X						
MW-51	"	1128	"	-03										X			X							X	X	X						
MW-32	"	1111	"	-04										X			X							X	X	X						
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X					X	X
Trip Blank	8-7-97	1205	"	-06													X															

99200

PROJECT INFORMATION
PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3097-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. CONTAINERS: 22
CUSTODY SEALS: Y/N/NA
RECEIVED INTACT: Y/N/NA
APPROPRIATE: Y/N/NA

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

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.
Signature: Time: 4:30
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

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

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

RECEIVED BY: (LAB) 2.
Signature: Time: 4:30
Printed Name: Brian Price Date: 8-21-97
American Environmental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708383

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mn, Ni, Na, Cr^{+3}		TOX	TOC	Gen Chemistry: Conductivity, Cl, SO_4	TKN		Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TC-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
708371-01	8-20	1417	AQ	1					X		X	X	X	X																				
-02		1504		2					X		X	X	X	X																				
-03		11:55		3					X		X	X	X	X																				
-04		1355		4					X		X	X	X	X																				
-05		1525		5					X		X	X	X	X																				

PROJECT INFORMATION	
PROJECT NUMBER:	708371
PROJECT NAME:	~~Sparton~~ Sparton
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	

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1700
Printed Name: Brian Price Date: 8-21-97
Albuquerque NM

RELINQUISHED BY: 2.
Signature: [signature] Time: 8/22/97
Printed Name: [signature] Date:
Company:

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

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 0823
Printed Name: R. ELSPERMAN Date: 8/22/97
Company: AEN FL

DUE DATE: 9-2-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: YES NO

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

009647

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-25 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708383

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mn, Ni, Na, Total Cr	TOX	TOC	Gen Chemistry: TKN, cond, chlor		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
708376-01	8-21	1500	AQ						X	X	X	X																			
-02		1219							X	X	X	X																			
-03		1358							X	X	X	X																			

PROJECT INFORMATION
PROJECT NUMBER: ~~Short~~ 708376
PROJECT NAME: Spartan technology
QC LEVEL: BIO IV
QC REQUIRED: MS MSD BLANK
TAT: STANDARD RUSH
DUE DATE: 9-3
RUSH SURCHARGE:
CLIENT DISCOUNT:
CERTIFICATION REQUIRED: YES NO

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

SAMPLES SENT TO:
SAN DIEGO
Paragon
RENTON
PENSACOLA X
PORTLAND
PHOENIX

Cr = Total cr

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Price Date: 8-25-97
Albuquerque NM
Company:

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

RECEIVED BY: 1.
Signature: Time: 0800
Printed Name: Linda L. Kitt Date: 8/25/97
Company: AEN/71

RECEIVED BY: (LAB) 2.
Signature: Time:
Printed Name: Date:
Company:

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

AUG 25 '97 08:07AM AEN NEW MEXICO P.7

009648

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-20-97 PAGE: 1 OF 1

AEN LAB I.D.: 708383-71

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR AEN USE ONLY

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd, NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515 708383

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry: Elec. Cond., Cl, SO4 1	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3 G	TOC 8	NUMBER OF CONTAINERS
MW-19	8-20-97	1417	H_2O	01			X							X			X		X				X	X						X	X	15
MW-20	"	1504	"	02			X							X			X		X				X	X						X	X	15
Trip Blank	8-7-97	11:55	H_2O	03			X							X			X		X				X	X						X	X	2
PZ-2	8-20-97	1355	H_2O	04			X							X			X		X				X	X						X	X	2
MW-9	"	1525	"	05			X							X			X		X				X	X						X	X	15

PROJECT INFORMATION

PROJ. NO.: AGMP-082097-A
PROJ. NAME: AGMP-3097-AP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
CONDITION:
COOL:
RECEIVED INTACT:
BLUE ICE:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field Direct

RELINQUISHED BY: 1.
Signature: Time: 1355
Printed Name: John Wakefield Date: 8-20-97
Company: S.T.I. 892-5300

RECEIVED BY:
Signature: Time: 1555
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RELINQUISHED BY: 2.
Signature: Time: 1627
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RECEIVED BY (LAB): 2.
Signature:
Printed Name:
Date:
Time:
Company: American Environmental Network (NM), Inc.

007649

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376 / 708383

P.6

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

AUG 25 '97 08:06AM AEN NEW MEXICO

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(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)	Nitrate as N	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec Cond., Cl, SO4	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na (Total)	TOC	NUMBER OF CONTAINERS
MW-14	8-21-97	1800	H2O	01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1356	"	03			X							X			X		X				X		X	X					X	X	12

059200

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
PROJ. NO.: 082197-A2	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒
PROJ. NAME: AGMP-3Q97-AP	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
P.O. NO.: 50650-02-06	METHANOL PRESERVATION ☐
SHIPPED VIA: Delivered	COMMENTS: FIXED FEE ☐
SAMPLE RECEIPT	C of C Seals on cooler
NO. CONTAINERS	
CUSTODY SEALS	
RECEIVED INTACT	
BLUE ICE/ICE	

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 4:31
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

American Environmental Network, Inc.

Extra Parameters 3Q 1997
MW-67, 65, 51, 32, 16, TB
Rec 9-22-97

AEN I.D. 708375

September 18, 1997

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

Project Name SGMP-3Q-97-EP
Project Number 082197-SEP

Attention: JOHN M. WAKEFIELD

On 8/21/97 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.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

EPA methods 8240 and 150.1 were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other parameters were performed by American Environmental Network (FL) Inc., Pensacola, FL.

Total dissolved residue is equivalent to total dissolved solids.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

007388

Enclosure

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

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP	REPORT DATE	: 9/18/97

AEN ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-67	AQ	8/21/97
02	MW-65	AQ	8/21/97
03	MW-51	AQ	8/21/97
04	MW-32	AQ	8/21/97
05	MW-16	AQ	8/21/97
06	TRIP BLANK	AQ	8/7/97

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW-67	AQUEOUS	8/21/97	8/22/97
02	MW-65	AQUEOUS	8/21/97	8/22/97
03	MW-51	AQUEOUS	8/21/97	8/22/97

PARAMETER	UNITS	01	02	03
PH (150.1)	**UNITS**	**8.7**	**7.8**	**7.7**

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	MW-32	AQUEOUS	8/21/97	8/22/97

PARAMETER	UNITS	04
PH (150.1)	**UNITS**	**7.5**

CHEMIST NOTES:
N/A

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	SAMPLE MATRIX	: AQ
PROJECT NAME	: SGMP-3Q-97-EP		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	708375-02	7.77	7.75	0

CHEMIST NOTES:
N/A

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

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

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-01	MW-67	AQUEOUS	8/21/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	**61**	**ug/L**
Carbon Disulfide	1.0	**1.7**	**ug/L**
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-01	MW-67	AQUEOUS	8/21/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		106
		(76 - 114)
Toluene-d8		98
		(88 - 110)
Bromofluorobenzene		99
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-02	MW-65	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**15**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-02	MW-65	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		84
		(76 - 114)
Toluene-d8		93
		(88 - 110)
Bromofluorobenzene		89
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-03	MW-51	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-03	MW-51	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		90
		(76 - 114)
Toluene-d8		94
		(88 - 110)
Bromofluorobenzene		112
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-04	MW-32	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**110**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**34**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**550**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	**8.2**	**ug/L**
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-04	MW-32	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		109
		(76 - 114)
Toluene-d8		108
		(88 - 110)
Bromofluorobenzene		88
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-05	MW-16	AQUEOUS	8/21/97	N/A	08/26/97	100

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 100	ug/L
Chloromethane	1.0	< 100	ug/L
Vinyl Chloride	1.0	< 100	ug/L
Bromomethane	1.0	< 100	ug/L
Chloroethane	1.0	< 100	ug/L
Trichlorofluoromethane	1.0	< 100	ug/L
Acetone	10	< 1000	ug/L
1,1-Dichloroethene	1.0	< 100	ug/L
Iodomethane	1.0	< 100	ug/L
Methylene Chloride	1.0	< 100	ug/L
cis-1,2-Dichloroethene	1.0	< 100	ug/L
1,1-Dichloroethane	1.0	< 100	ug/L
trans-1,2-Dichloroethene	1.0	< 100	ug/L
2-Butanone	10	< 1000	ug/L
Carbon Disulfide	1.0	< 100	ug/L
Chloroform	1.0	< 100	ug/L
1,2-Dichloroethane	1.0	< 100	ug/L
Vinyl Acetate	1.0	< 100	ug/L
1,1,1-Trichloroethane	1.0	**520**	**ug/L**
Carbon Tetrachloride	1.0	< 100	ug/L
Benzene	1.0	< 100	ug/L
1,2-Dichloropropane	1.0	< 100	ug/L
Trichloroethene	1.0	**3000**	**ug/L**
Bromodichloromethane	1.0	< 100	ug/L
2-Chloroethyl Vinyl Ether	10	< 1000	ug/L
cis-1,3-Dichloropropene	1.0	< 100	ug/L
trans-1,3-Dichloropropene	1.0	< 100	ug/L
1,1,2-Trichloroethane	1.0	< 100	ug/L
Toluene	1.0	< 100	ug/L
1,2-Dibromoethane	1.0	< 100	ug/L
4-Methyl-2-Pentanone	10	< 1000	ug/L
2-Hexanone	10	< 1000	ug/L
Dibromochloromethane	1.0	< 100	ug/L
Tetrachloroethene	1.0	< 100	ug/L
Chlorobenzene	1.0	< 100	ug/L
Ethylbenzene	1.0	< 100	ug/L
m&p Xylenes	1.0	< 100	ug/L
o-Xylene	1.0	< 100	ug/L
Styrene	1.0	< 100	ug/L
Bromoform	1.0	< 100	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 100	ug/L
1,3-Dichlorobenzene	1.0	< 100	ug/L
1,4-Dichlorobenzene	1.0	< 100	ug/L
1,2-Dichlorobenzene	1.0	< 100	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-05	MW-16	AQUEOUS	8/21/97	N/A	08/26/97	100

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		105
		(76 - 114)
Toluene-d8		95
		(88 - 110)
Bromofluorobenzene		100
		(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-06	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-06	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		103
		(76 - 114)
Toluene-d8		95
		(88 - 110)
Bromofluorobenzene		100
		(86 - 115)

American Environmental Network Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		105
		(76 - 114)
Toluene-d8		88
		(88 - 110)
Bromofluorobenzene		111
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		92
		(76 - 114)
Toluene-d8		98
		(88 - 110)
Bromofluorobenzene		90
		(86 - 115)

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S3.D	082697S4.D
Sample :	BS	BS
Acq Time:	26 Aug 97 6:56 pm	26 Aug 97 7:29 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	49	49	98	97	1	14	61-145
Benzene	0.1	50	51	51	101	103	2	11	76-127
Trichloroethene	0.0	50	54	54	108	107	1	14	71-120
Toluene	0.2	50	51	51	102	101	2	13	76-125
Chlorobenzene	0.1	50	51	51	103	103	0	13	75-130

- Fails Limit Check

8260822.M Wed Aug 27 08:11:30 1997

American Environmental Network Inc.

AEN I.D. 708371

September 8, 1997

American Environmental Network-NM
2709-D Pan American Frwy, NE
Albuquerque, NM 87107

Project Name/Number: Sparton Tech/708375

Attention: Kimberly D. McNeill

On 08/21/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager
LE/acc
Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/21/97
PROJECT # : 708375
PROJECT NAME : SPARTON TECH REPORT DATE : 09/08/97
ATI I.D. : 708371

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708375-05	AQUEOUS	08/21/97

==========

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

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

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708371

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708375
PROJECT NAME : SPARTON TECH

DATE RECEIVED : 08/21/97
REPORT DATE : 09/08/97

PARAMETER	UNITS	01
CHROMIUM HEXAVALENT (SM 3500	MG/L	0.30

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708375
PROJECT NAME : SPARTON TECH ATI I.D. : 708371

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70836101	0.6	0.6	0	2.1	1.5	100

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

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

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708371

08-Sep-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/22/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

007414

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr 76		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	007415			NUMBER OF CONTAINERS
708375-05	8-21	1336	AQ	1					X																							

PROJECT INFORMATION
PROJECT NUMBER: 708375

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS
COLD
708371

SAMPLES SENT TO:
SAN DIEGO
Paragon

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Pesch Date: 8-21-97
Albuquerque NM

RECEIVED BY: 1.
Signature: Time:
Date:

RELINQUISHED BY: 2.
Signature Time
Printed Name Date
Company

RECEIVED BY: (LAB) 2.
Time: 1440
Corrina L Deweese
8-21-97
Corrina L Deweese
Company:

American Environmental Network (NM), Inc.

Albuquerque • Farmington • Roswell • Lubbock

007416

AUG 2 2 AM 9 NEW MEXICO

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

COMPANY:	SPARTON TECHNOLOGY, INC.
ADDRESS:	9621 Coors Rd., NW Albuquerque, NM 87114
PHONE:	(505) 892-5300
FAX:	(505) 892-5515
BILL TO:	John M. Wakefield
COMPANY:	SPARTON TECHNOLOGY, INC.
ADDRESS:	4901 Rockaway Blvd., NE Rio Rancho, NM 87124

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons	(MOD.8015) Diesel/Diesel	TOX, TOC	(M8015) Gas/Purge &	Gasoline/BTEX & MTBE	BTXE/MTBE (8020)	BTEX & Chlorinated	BTEX/MTBE/EDC & EDB	Chlorinated Hydrocarbons	Nitrate, pH	504 EDB	Polynuclear Aromatics	Volatile Organics (E	Volatile Organics (E	TKN	Pesticides/PCB (6C	Herbicides (515/81	Base/Neutral/Acid Com	pH Elec Cond	General Chemistry	Hardness, Ca	Carbonate	Priority Pollutant M	Target Analyte List	RCRA Metals (8)	RCRA Metals by T	Metals: Br, Mn	Cr+6	NUMBER OF CONT
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X							
MW-65	"	0928	"	-02										X			X							X	X	X							
MW-51	"	1128	"	-03										X			X							X	X	X							
MW-32	"	1111	"	-04										X			X							X	X	X							
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X					X	X	
Trip Blank	8-7-97	1205	"	-06													X																

PROJECT INFORMATION	
PROJ. NO.:	082197-SEP
PROJ. NAME:	SGMP-3097-EP
P.O. NO.:	50650-02-06
SHIPPED VIA:	Delivered
SAMPLE RECEIPT	
NO. CONTAINERS:	22
CUSTODY SEALS:	N/A
RECEIVED INTACT:	Y/N/NO
COOL/AMBIENT:	Cool

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 4:30	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 4:30
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTAN TECH.
Project Number:	708375
Project Location:	SGMP-3Q-97-EP
Accession Number:	708440
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	10	1	CIW081	
SULFATE (375.4)	MG/L	34	10	SEW069	
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	300	5	TDW050	
Comments:					
Client ID: 708375-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	18	1	CIW081	
SULFATE (375.4)	MG/L	81	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	290	5	TDW050	
Comments:					
Client ID: 708375-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	17	1	CIW081	
SULFATE (375.4)	MG/L	77	20	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	330	5	TDW050	
Comments:					
Client ID: 708375-04			Lab ID: 004		
CHLORIDE (325.3)	MG/L	33	1	CIW081	
SULFATE (375.4)	MG/L	110	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	490	5	TDW050	
Comments:					
Client ID: 708375-05			Lab ID: 005		
CHLORIDE (325.3)	MG/L	28	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	970	1	CDW018	
SULFATE (375.4)	MG/L	100	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	410	5	TDW050	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	55	2.5	TAW41D	+
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CHLORIDE (325.3)	MG/L	10
	SULFATE (375.4)	MG/L	34
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	300
708375-02	CHLORIDE (325.3)	MG/L	18
	SULFATE (375.4)	MG/L	81
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	290
708375-03	CHLORIDE (325.3)	MG/L	17
	SULFATE (375.4)	MG/L	77
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	330
708375-04	CHLORIDE (325.3)	MG/L	33
	SULFATE (375.4)	MG/L	110
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	490
708375-05	CHLORIDE (325.3)	MG/L	28
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	970
	SULFATE (375.4)	MG/L	100
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	410
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	55

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ALKALINITY

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
ALKALINITY, TOTAL (2320B)	MG/L	90	1	ASW029	
PH (150.1)	UNITS	8.5	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	87	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	3	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	1	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	
Comments:					
Client ID: 708375-02			Lab ID: 002		
ALKALINITY, TOTAL (2320B)	MG/L	130	1	ASW029	
PH (150.1)	UNITS	7.9	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	130	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	11	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	3	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	
Comments:					
Client ID: 708375-03			Lab ID: 003		
ALKALINITY, TOTAL (2320B)	MG/L	180	1	ASW029	
PH (150.1)	UNITS	7.9	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	180	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	1	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	4	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-04			Lab ID: 004		
ALKALINITY, TOTAL (2320B)	MG/L	220	1	ASW029	
PH (150.1)	UNITS	7.7	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	220	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	1	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	9	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	

Comments:

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-05			Lab ID: 005		
ALKALINITY, TOTAL (2320B)	MG/L	310	1	ASW029	
PH (150.1)	UNITS	8.1	NA	PHW177	R
BICARBONATE, CACO3 (2330B)	MG/L	310	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	4	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	5	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	

Comments:
R = SAMPLE RECEIVED OUT OF HOLD TIME FOR PH ANALYSIS.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	ALKALINITY, TOTAL (2320B)	MG/L	90
	PH (150.1)	UNITS	8.5
	BICARBONATE, CACO3 (2330B)	MG/L	87
	CARBONATE, CACO3 (2330B)	MG/L	3
	CARBON DIOXIDE, FREE AS CACO3	MG/L	1
708375-02	ALKALINITY, TOTAL (2320B)	MG/L	130
	PH (150.1)	UNITS	7.9
	BICARBONATE, CACO3 (2330B)	MG/L	130
	CARBONATE, CACO3 (2330B)	MG/L	11
	CARBON DIOXIDE, FREE AS CACO3	MG/L	3
708375-03	ALKALINITY, TOTAL (2320B)	MG/L	180
	PH (150.1)	UNITS	7.9
	BICARBONATE, CACO3 (2330B)	MG/L	180
	CARBONATE, CACO3 (2330B)	MG/L	1
	CARBON DIOXIDE, FREE AS CACO3	MG/L	4
708375-04	ALKALINITY, TOTAL (2320B)	MG/L	220
	PH (150.1)	UNITS	7.7
	BICARBONATE, CACO3 (2330B)	MG/L	220
	CARBONATE, CACO3 (2330B)	MG/L	1
	CARBON DIOXIDE, FREE AS CACO3	MG/L	9
708375-05	ALKALINITY, TOTAL (2320B)	MG/L	310
	PH (150.1)	UNITS	8.1
	BICARBONATE, CACO3 (2330B)	MG/L	310
	CARBONATE, CACO3 (2330B)	MG/L	4
	CARBON DIOXIDE, FREE AS CACO3	MG/L	5

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID:001		
CALCIUM (200.7)	MG/L	19	1	I0W215	
POTASSIUM (200.7)	MG/L	26	2	X0W215	
MAGNESIUM (200.7)	MG/L	5.3	0.2	J0W215	
SODIUM (200.7)	MG/L	37	0.2	10W215	
Comments:					
Client ID: 708375-02			Lab ID:002		
CALCIUM (200.7)	MG/L	55	1	I0W215	
POTASSIUM (200.7)	MG/L	6	2	X0W215	
MAGNESIUM (200.7)	MG/L	9.6	0.2	J0W215	
SODIUM (200.7)	MG/L	26	0.2	10W215	
Comments:					
Client ID: 708375-03			Lab ID:003		
CALCIUM (200.7)	MG/L	71	1	I0W215	
POTASSIUM (200.7)	MG/L	4	2	X0W215	
MAGNESIUM (200.7)	MG/L	9	0.2	J0W215	
SODIUM (200.7)	MG/L	41	0.2	10W215	
Comments:					
Client ID: 708375-04			Lab ID:004		
CALCIUM (200.7)	MG/L	87	1	I0W215	
POTASSIUM (200.7)	MG/L	4	2	X0W215	
MAGNESIUM (200.7)	MG/L	13	0.2	J0W215	
SODIUM (200.7)	MG/L	46	0.2	10W215	
Comments:					
Client ID: 708375-05			Lab ID:005		
BORON (200.7)	MG/L	0.28	0.09	O0W215	
CALCIUM (200.7)	MG/L	18	1	I0W215	
CHROMIUM (200.7)	MG/L	0.26	0.01	H0W215	
POTASSIUM (200.7)	MG/L	16	2	X0W215	
MAGNESIUM (200.7)	MG/L	1.9	0.2	J0W215	
MANGANESE (200.7)	MG/L	0.13	0.01	G0W215	
SODIUM (200.7)	MG/L	52	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CALCIUM (200.7)	MG/L	19
	POTASSIUM (200.7)	MG/L	26
	MAGNESIUM (200.7)	MG/L	5.3
	SODIUM (200.7)	MG/L	37
708375-02	CALCIUM (200.7)	MG/L	55
	POTASSIUM (200.7)	MG/L	6
	MAGNESIUM (200.7)	MG/L	9.6
	SODIUM (200.7)	MG/L	26
708375-03	CALCIUM (200.7)	MG/L	71
	POTASSIUM (200.7)	MG/L	4
	MAGNESIUM (200.7)	MG/L	9
	SODIUM (200.7)	MG/L	41
708375-04	CALCIUM (200.7)	MG/L	87
	POTASSIUM (200.7)	MG/L	4
	MAGNESIUM (200.7)	MG/L	13
	SODIUM (200.7)	MG/L	46
708375-05	BORON (200.7)	MG/L	0.28
	CALCIUM (200.7)	MG/L	18
	CHROMIUM (200.7)	MG/L	0.26
	POTASSIUM (200.7)	MG/L	16
	MAGNESIUM (200.7)	MG/L	1.9
	MANGANESE (200.7)	MG/L	0.13
	SODIUM (200.7)	MG/L	52

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: HARDNESS

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID:001		
CALCIUM, HARDNESS (200.7)	MG/L	48	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	22	0.8	J0W215	
TOTAL HARDNESS	MG/L	70	NA	NONE	
Comments:					
Client ID: 708375-02			Lab ID:002		
CALCIUM, HARDNESS (200.7)	MG/L	140	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	39	0.8	J0W215	
TOTAL HARDNESS	MG/L	180	NA	NONE	
Comments:					
Client ID: 708375-03			Lab ID:003		
CALCIUM, HARDNESS (200.7)	MG/L	180	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	37	0.8	J0W215	
TOTAL HARDNESS	MG/L	220	NA	NONE	
Comments:					
Client ID: 708375-04			Lab ID:004		
CALCIUM, HARDNESS (200.7)	MG/L	220	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	53	0.8	J0W215	
TOTAL HARDNESS	MG/L	270	NA	NONE	
Comments:					
Client ID: 708375-05			Lab ID:005		
CALCIUM, HARDNESS (200.7)	MG/L	45	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	8.0	0.8	J0W215	
TOTAL HARDNESS	MG/L	53	NA	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CALCIUM, HARDNESS (200.7)	MG/L	48
	MAGNESIUM, HARDNESS (200.7)	MG/L	22
	TOTAL HARDNESS	MG/L	70
708375-02	CALCIUM, HARDNESS (200.7)	MG/L	140
	MAGNESIUM, HARDNESS (200.7)	MG/L	39
	TOTAL HARDNESS	MG/L	180
708375-03	CALCIUM, HARDNESS (200.7)	MG/L	180
	MAGNESIUM, HARDNESS (200.7)	MG/L	37
	TOTAL HARDNESS	MG/L	220
708375-04	CALCIUM, HARDNESS (200.7)	MG/L	220
	MAGNESIUM, HARDNESS (200.7)	MG/L	53
	TOTAL HARDNESS	MG/L	270
708375-05	CALCIUM, HARDNESS (200.7)	MG/L	45
	MAGNESIUM, HARDNESS (200.7)	MG/L	8.0
	TOTAL HARDNESS	MG/L	53

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005
Client Sample Id: 708375-05

Sample Date/Time: 21-AUG-97 1336
Received Date: 26-AUG-97

Batch: TOW080
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 03-SEP-97

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708375-05	TOTAL ORGANIC CARBON	MG/L	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005
Client Sample Id: 708375-05
Sample Date/Time: 21-AUG-97 1336
Received Date: 26-AUG-97

Batch: TXW042
Blank: E
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	24	10	
ANALYST	INITIALS	KS		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708375-05	TOTAL ORGANIC HALIDES	MG/L	24

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CHLORIDE	SULFATE	TDS	CONDUCT'Y	TKN AUTO
Batch Id:	CIW081	SEW069	TDW050	CDW018	TAW41D
Blank Result:	<1	<10	<5	<1	<0.5
Anal. Method:	325.3	375.4	160.1	120.1	351.2
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	27-AUG-97	26-AUG-97	29-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	27-AUG-97	25-AUG-97	29-AUG-97	25-AUG-97
Sample Duplication					
Sample Dup:	708383-1	708383-1	708299-10	708383-3	708383-1
Rept Limit:	<1	<50+	<5	<1	<0.5
Sample Result:	18.7	116.5	48	4.4	<0.5
Dup Result:	18.9	115.5	42	4.4	<0.5
Sample RPD:	1	1G	13	0G	N/C
Max RPD:	6	50	15	1	0.5
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708383-1	708383-1	N/A	N/A	708383-1
Rept Limit:	<1	<100+	N/A	N/A	<0.5
Sample Result:	18.7	116.5			<0.5
Spiked Result:	76.5	296.0			4.41
Spike Added:	55.0	200.0			4.00
% Recovery:	105	90			110
% Rec Limits:	88-113	64-150			64-122
Dry Weight%	N/A	N/A			N/A
ICV					
ICV Result:	93.5	21.3		1433	10.37
True Result:	100	20.0		1412	10.00
% Recovery:	94	107		101	104
% Rec Limits:	90-110	90-110		90-110	90-110
LCS					
LCS Result:			304		8.86
True Result:			293		10.00
% Recovery:			104		89
% Rec Limits:			77-122		67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97
TDW050	708436-1; 708440-1,2,3,4,5; 708442-1; WERE ADDED TO BATCH ON 27-AUG-97
TAW41D	708427-1; 708437-1,2,3; WERE ADDED TO BATCH ON 26-AUG-97
TAW41D	708448-1,2,3,; 708440-5 WERE ADDED TO BATCH ON 27-AUG-97

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ALKALINITY

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	ALKALINITY	PH	PH
Batch Id:	ASW029	PHW178	PHW177
Blank Result:	<1	N/A	N/A
Anal. Method:	2320B	150.1	150.1
Prep. Method:	N/A	N/A	N/A
Analysis Date:	27-AUG-97	27-AUG-97	26-AUG-97
Prep. Date:	27-AUG-97	27-AUG-97	26-AUG-97
Sample Duplication			
Sample Dup:	708440-2	708457-2	708442-1
Rept Limit:	<1	N/A	N/A
Sample Result:	130	6.26	8.15
Dup Result:	129	6.32	8.19
Sample RPD:	1	0.06	0.04
Max RPD:	4	0.12	0.12
Dry Weight%	N/A	N/A	N/A
Matrix Spike			
Sample Spiked:	708440-2	N/A	N/A
Rept Limit:	<1	N/A	N/A
Sample Result:	130		
Spiked Result:	151		
Spike Added:	25		
% Recovery:	84		
% Rec Limits:	75-125		
Dry Weight%	N/A		
ICV			
ICV Result:	233	10.10	10.07
True Result:	250	10.00	10.00
% Recovery:	93	101	101
% Rec Limits:	90-110	90-110	90-110
LCS			
LCS Result:		6.63	7.02
True Result:		6.87	6.87
% Recovery:		97	102
% Rec Limits:		96-104	96-104

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
ASW029	708457-2,5,6,10 WERE ADDED TO BATCH ON 28-AUG-97

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

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
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RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	CALCIUM	POTASSIUM	MAGNESIUM	SODIUM	BORON	CHROMIUM
Batch Id:	I0W215	X0W215	J0W215	10W215	O0W215	H0W215
Blank Result:	<1	<2	<0.2	<0.2	<0.09	<0.01
Anal. Method:	200.7	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97	08-SEP-97	09-SEP-97	08-SEP-97	04-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97
Sample Duplication						
Sample Dup:	708437-1	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<1	<2	<0.2	<0.2	<0.09	<0.01
Sample Result:	96	26	30	76	2.9	2.7
Dup Result:	97	27	30	76	2.9	2.7
Sample RPD:	1	4	0	0	0	0
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	708437-1	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<1	<2	<0.2	<0.2	<0.09	<0.01
Sample Result:	76	4	10	56	0.91	0.68
Spiked Result:	96	26	30	76	2.9	2.7
Spike Added:	20	20	20	20	2.0	2.0
% Recovery:	100	110	100	100	100	101
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	24	24	24	25	5.0	5.0
True Result:	25	25	25	25	5.0	5.0
% Recovery:	96	96	96	100	100	100
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	20	22	20	20	2.0	20
True Result:	20	20	20	20	2.0	20
% Recovery:	100	110	100	100	100	100
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	MANGANESE	NICKEL
Batch Id:	G0W215	E0W215
Blank Result:	<0.01	<0.02
Anal. Method:	200.7	200.7
Prep. Method:	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	28-AUG-97

Sample Duplication

Sample Dup:	708437-1	708437-1
Rept Limit:	<0.01	<0.02
Sample Result:	2.0	2.0
Dup Result:	2.0	2.0
Sample RPD:	0	0
Max RPD:	20	20
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708437-1	708437-1
Rept Limit:	<0.01	<0.02
Sample Result:	<0.01	<0.02
Spiked Result:	2.0	2.0
Spike Added:	2.0	2.0
% Recovery:	100	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	4.9	4.8
True Result:	5.0	5.0
% Recovery:	98	96
% Rec Limits:	90-110	90-110

LCS

LCS Result:	2.1	2.1
True Result:	2.0	2.0
% Recovery:	105	105
% Rec Limits:	80-120	80-120

"Quality Control Comments"

Batch Id:	Comments:
I0W215	ANALYST: JLH
I0W215	The results reported under "Sample Duplication" are the MS/MSD.
X0W215	ANALYST: JLH
X0W215	The results reported under "Sample Duplication" are the MS/MSD.
J0W215	ANALYST: JLH
J0W215	The results reported under "Sample Duplication" are the MS/MSD.
10W215	ANALYST: JLH
10W215	The results reported under "Sample Duplication" are the MS/MSD.
O0W215	ANALYST: JR
O0W215	The results reported under "Sample Duplication" are the MS/MSD.
H0W215	ANALYST: JLH
H0W215	The results reported under "Sample Duplication" are the MS/MSD.
G0W215	ANALYST: JLH
G0W215	The results reported under "Sample Duplication" are the MS/MSD.
E0W215	ANALYST: JLH
E0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

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

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

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

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

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

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: HARDNESS

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	CALCIUM	MAGNESIUM
Batch Id:	I0W215	J0W215
Blank Result:	<1	<0.2
Anal. Method:	200.7	200.7
Prep. Method:	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97
Sample Duplication		
Sample Dup:	708437-1	708437-1
Rept Limit:	<1	<0.2
Sample Result:	96	30
Dup Result:	97	30
Sample RPD:	1	0
Max RPD:	20	20
Dry Weight%	N/A	N/A
Matrix Spike		
Sample Spiked:	708437-1	708437-1
Rept Limit:	<1	<0.2
Sample Result:	76	10
Spiked Result:	96	30
Spike Added:	20	20
% Recovery:	100	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A
ICV		
ICV Result:	24	24
True Result:	25	25
% Recovery:	96	96
% Rec Limits:	90-110	90-110
LCS		
LCS Result:	20	20
True Result:	20	20
% Recovery:	100	100
% Rec Limits:	80-120	80-120

"Quality Control Comments"

Batch Id:	Comments:
I0W215	ANALYST: JLH
I0W215	The results reported under "Sample Duplication" are the MS/MSD.
J0W215	ANALYST: JLH
J0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-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.
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AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-SEP-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Reagent
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 03-SEP-97 RS Date Extracted: N/A
RSD Date Analyzed: 03-SEP-97 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	6.2	93	6.5	97	4	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 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-2

MS Date Analyzed: 03-SEP-97
MSD Date Analyzed: 03-SEP-97

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	7.2	107	7.2	107	0	30	51-135

Surrogates:

Comments:

Notes:
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MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
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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.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

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 LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

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

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

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 05-Sep-97

"QC Report"

Title: Water Blank
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: E Date Analyzed: 05-SEP-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708464-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

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

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	43.231	43.252	42*	43.251	40*	5	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

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American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708440 Date Received: 26-Aug-97

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

Airbill Number(s): 2914179046 Shipped By: Fedx

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

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3°C

CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

PH for 708375-05 Received out of hold time - Per Mitch Rubenstein still run PH. 8/26 @ 1350

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: [signature] Date: 26-Aug-97 Logged By: [signature] Date: 26-Aug-97

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

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

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

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

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-22 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708440

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	metals: B, Mn, Ni, Cr^{+3}	Ca, Mg, K, Na	TOX	TOC	Gen Chemistry: Cl, SO_4, Hardness	NH_3	Elect Cond.	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)	AIK Lab (Bicarb, Carb), TDR	TC-14	Gross Alpha/Beta	007468			NUMBER OF CONTAINERS
708375 -01	8-21	1020	AQ							X			X													X						
-02		0928								X			X													X						
-03		1128								X			X													X						
-04		1111								X			X													X						
-05		1336							X	X	X	X	X	X	X											X						

PROJECT INFORMATION	
PROJECT NUMBER:	708375
PROJECT NAME:	Sparton tech.
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	

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

DUE DATE: 9-3-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time
Printed Name: Brian Price Date: 8-25-0	Printed Name: Date
Albuquerque NM	Company
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Linda Kitt Time: 0840	Signature: Time:
Printed Name: Linda Kitt Date: 8/26/97	Printed Name: Date:
Company: AEN	Company:

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375 | 708410

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114

PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (2)	(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)	Nitrate plus Nitrite (2)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec Cond (2)	General Chemistry: Ca, Mg, K, Na, Hardness, Bicarbonate, Cl, SO4	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Mo, Cr+3 (1)	Cr+6 (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	0928 1000	H2O	-01										X			X							X	X	X						
MW-65	"	0928	"	-02										X			X							X	X	X						
MW-51	"	1128	"	-03										X			X							X	X	X						
MW-32	"	1111	"	-04										X			X							X	X	X						
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X		007469		X	X	
Trip Blank	8-7-97	1205	"	-06													X															

TIMS 8/28/97

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJ. NO.: 082197-SEP	(RUSH) ☐24hr ☐48hr ☐72hr ☐1 WEEK (NORMAL) X	Signature: Time: 4:30	Signature: Time:
PROJ. NAME: SGMP-3097-EP	CERTIFICATION REQUIRED: ☐NM ☐SDWA ☐OTHER	Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
P.O. NO.: 50650-02-06	METHANOL PRESERVATION ☐	Company: S.T.I. 892-5300	Company:
SHIPPED VIA: Delivered	COMMENTS: FIXED FEE ☐	RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
SAMPLE RECEIPT	C of C Seals on cooler	Signature: Time:	Signature: Time: 4:30
NO. CONTAINERS: 42		Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
CUSTODY SEALS: Y/N/NA		Company:	American Environmental Network (NM), Inc.
RECEIVED INTACT: Y/N/NA Yes			
BLUE ICE/ICE: 16	From Field		

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708375
Project Location:	SGMP-3Q-97-AP
Accession Number:	708390
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708390
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTON
Project Location:	SGMP-3Q-97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708375-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.6	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.6	0.1	NONE	
Comments:					
Client ID: 708375-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.8	0.2	N3W50B	@
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.8	0.1	NONE	
Comments:					
Client ID: 708375-04			Lab ID: 004		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708375-05			Lab ID: 005		
NITRITE, NITROGEN (354.1)	MG/L	0.1	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708375-01	001 WATER	21-AUG-97 1000	22-AUG-97
708375-02	002 WATER	21-AUG-97 0928	22-AUG-97
708375-03	003 WATER	21-AUG-97 1129	22-AUG-97
708375-04	004 WATER	21-AUG-97 1111	22-AUG-97
708375-05	005 WATER	21-AUG-97 1326	22-AUG-97

"Method Report Summary"

Accession Number: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708375-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.6
708375-03	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.8
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.8
708375-05	NITRITE, NITROGEN (354.1)	MG/L	0.1

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708390
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTON
Project Location:	SGMP-3Q-97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W097	N3W50B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	22-AUG-97	27-AUG-97
Prep. Date:	22-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Dup Result:	<0.1	0.11
Sample RPD:	N/C	0G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Spiked Result:	0.20	0.81
Spike Added:	0.20	1.00
% Recovery:	100	70
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.97
True Result:	0.20	2.00
% Recovery:	100	99
% Rec Limits:	90-110	90-110

LCS

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

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708390 Date Received: 22-Aug-97

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

Airbill Number(s): 2949975691/2949975813 Shipped By: FEDEX

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

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PHE Date: 8/22/97 Logged By: PHE Date: 8/22/97

- ▲ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*
- ♦ *Note who requested the splitting of samples on the Comment Section of this form.*
- \+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*
- * *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: ~~8-20-97~~ 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708390

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	NO3	NO2	TOX	TOC	Gen Chemistry	PH		Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (815/8150)	Base/Neutral Acid Compounds GC/MS (625/2270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta	007476			NUMBER OF CONTAINERS
708375-01	~~8-20~~ 8-21	11:00	AQ	1					X	X																							
-02	BP	0928		2					X	X																							
-03		1129		3					X	X																							
-04		1111		4					X	X																							
-05		1326		5					X	X				X																			

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	708375-01	TOTAL NUMBER OF CONTAINERS	
PROJECT NAME:	Sparton	CHAIN OF CUSTODY SEALS	
QC LEVEL:	STD. IV	INTACT?	
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD	
TAT:	STANDARD RUSH!	LAB NUMBER	

DUE DATE: 9-3-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Bike Date: 8-20-97
Albuquerque NM

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

RELINQUISHED BY: 2.
Signature Time 8/22/9
Printed Name: Date
Company AEN

RECEIVED BY: (LAB) 2.
Signature: Rob Elsperman Time: 0823
Printed Name: R. ELSPERMAN Date: 8/22/97
Company: AENFL

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114

PHONE: (505) 892-5300
FAX: (505) 892-5515 708390

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (2)	(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)	Nitrate plus Nitrite (2)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS (3)	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec. Cond. (2)	General Chemistry: Ca, Mg, K, Na (2), Hardness, Bicarbonate, Carbonate, Cl, SO4	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Zn, Cr+3 (1), Cr+6 (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	0928	H2O	-01										X			X							X X X						
MW-65	"	0928	"	-02										X			X							X X X						
MW-51	"	1128	"	-03										X			X							X X X						
MW-32	"	1111	"	-04										X			X							X X X						
MW-16	"	1336	"	-05			X							X			X		X				X	X X X X				X	X	
Trip Blank	8-7-97	1205	"	-06													X													

007480

PROJECT INFORMATION

PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3097-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT

NO. CONTAINERS: 17
CUSTODY SEALS: Y/N/NA
RECEIVED INTACT: Y/N/NA
COOL/AMBIENT: Y/N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.
Signature: Time: 4:30
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

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

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

RECEIVED BY: (LAB) 2.
Signature: Time: 4:30
Printed Name: Brian Price Date: 8-21-97
American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114

PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (2)	(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)	Nitrate plus Nitrite (2)	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec. Cond. (1)	General Chemistry: Ca, Mg, K, Na, Hardness, Bicarbonate (TDS), Carbonate, Cl, SO4	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Mg, Cr+3 (1)	Cr+6 (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	~~0928~~ 1020	H_2O	-01										X			X							X	X	X						
MW-65	"	0928	"	-02										X			X							X	X	X						
MW-51	"	1128	"	-03										X			X							X	X	X						
MW-32	"	1111	"	-04										X			X							X	X	X						
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X				X	X	
Trip Blank	8-7-97	1205	"	-06													X															

007481

Time 6 7 97

PROJECT INFORMATION	
PROJ. NO.:	082197-SEP
PROJ. NAME:	SGMP-3Q97-EP
P.O. NO.:	50650-02-06
SHIPPED VIA:	Delivered

SAMPLE RECEIPT	
NO. CONTAINERS	42
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	16

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 4:30	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:

RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
Signature: Time:	Signature: Time: 4:30
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Enviromental Network (NM), Inc.

American Environmental Network, Inc.

~~Arsenic~~ ~~Dissolved~~ As, ~~Cr~~ Effluent ~~Sampled~~ JMW 10-3-97

AEN I.D. 708376

Revised

AGMP - 3Q 97 Rec. 10-3-97
MW-14, 21, 22 Sampled 8-21-97
Annual Parameters.

September 29, 1997

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

Project Name AGMP-3Q97-AP
Project Number 082197-A2

Attention: JOHN M. WAKEFIELD

On 8/21/97 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.

This report is being revised in part to correct a laboratory error.

EPA method 8240 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

007482

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

American Environmental Network, Inc.

AGMP 3Q97 8-21-97
Annual Parameters for -
MW-14, 21, 22 Rec. 9-17-97

AEN I.D. 708376

September 12, 1997

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

Project Name AGMP-3Q97-AP
Project Number 082197-A2

Attention: JOHN M. WAKEFIELD

On 8/21/97 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.

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All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

007483

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708376
PROJECT #	: 082197-A2	DATE RECEIVED	: 8/21/97
PROJECT NAME	: AGMP-3Q97-AP	REPORT DATE	: 9/12/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-14	AQ	8/21/97
02	MW-21	AQ	8/21/97
03	MW-22	AQ	8/21/97

007484

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-01	MW-14	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**29**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**6.6**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**530**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	< 5.0	ug/L
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-01	MW-14	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		111 (76 - 114)
Toluene-d8		94 (88 - 110)
Bromofluorobenzene		91 (86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-02	MW-21	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**2.6**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	**21**	**ug/L**
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**61**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-02	MW-21	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		109
		(76 - 114)
Toluene-d8		91
		(88 - 110)
Bromofluorobenzene		110
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-03	MW-22	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**6.2**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	**21**	**ug/L**
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**44**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-03	MW-22	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		102 (76 - 114)
Toluene-d8		95 (88 - 110)
Bromofluorobenzene		102 (86 - 115)

American Environmental Network, Inc.

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S3.D	082697S4.D
Sample :	BS	BS
Acq Time:	26 Aug 97 6:56 pm	26 Aug 97 7:29 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/21/97
PROJECT # : 708376
PROJECT NAME : SPARTON TECH REPORT DATE : 09/08/97
ATI I.D. : 708361

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708376-01	AQUEOUS	08/21/97
02	708376-02	AQUEOUS	08/21/97
03	708376-03	AQUEOUS	08/21/97

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708361

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708376
PROJECT NAME : SPARTON TECH

DATE RECEIVED : 08/21/97
REPORT DATE : 09/08/97

PARAMETER	UNITS	01	02	03
CHROMIUM HEXAVALENT (SM 3500	MG/L	0.6	<0.02	<0.02

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708376
PROJECT NAME : SPARTON TECH ATI I.D. : 708361

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70836101	0.6	0.6	0	2.1	1.5	100

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

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

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708361

08-Sep-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/22/97	CARLENE MCCUTCHEON
	02	08/22/97	CARLENE MCCUTCHEON
	03	08/22/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

007498

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708376
Project Location:	AGMP-3Q97-AP
Accession Number:	708387
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
PH (150.1)	UNITS	8.4	NA	PHW175	
Comments:					
Client ID: 708376-02			Lab ID: 002		
PH (150.1)	UNITS	8.0	NA	PHW175	
Comments:					
Client ID: 708376-03			Lab ID: 003		
PH (150.1)	UNITS	7.8	NA	PHW175	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	22-AUG-97
708376-02	002	WATER	21-AUG-97 1218	22-AUG-97
708376-03	003	WATER	21-AUG-97 1358	22-AUG-97

"Method Report Summary"

Accession Number: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	PH (150.1)	UNITS	8.4
708376-02	PH (150.1)	UNITS	8.0
708376-03	PH (150.1)	UNITS	7.8

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.4	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	2.4	0.1	NONE	
Comments:					
Client ID: 708376-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.6	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	2.6	0.1	NONE	
Comments:					
Client ID: 708376-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	7.0	0.2	N3W50B	+
NITRATE, NITROGEN (353.2-354.1)	MG/L	7.0	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	22-AUG-97
708376-02	002	WATER	21-AUG-97 1218	22-AUG-97
708376-03	003	WATER	21-AUG-97 1358	22-AUG-97

"Method Report Summary"

Accession Number: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.4
	NITRATE, NITROGEN (353.2-354.1)	MG/L	2.4
708376-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	2.6
708376-03	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	7.0
	NITRATE, NITROGEN (353.2-354.1)	MG/L	7.0

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	PH
Batch Id:	PHW175
Blank Result:	N/A
Anal. Method:	150.1
Prep. Method:	N/A
Analysis Date:	22-AUG-97
Prep. Date:	22-AUG-97

Sample Duplication

Sample Dup:	708369-1
Rept Limit:	N/A
Sample Result:	7.83
Dup Result:	7.80
Sample RPD:	0.03
Max RPD:	0.12
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:	10.07
True Result:	10.00
% Recovery:	101
% Rec Limits:	90-110

LCS

LCS Result:	7.00
True Result:	6.87
% Recovery:	102
% Rec Limits:	96-104

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W097	N3W50B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	22-AUG-97	27-AUG-97
Prep. Date:	22-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Dup Result:	<0.1	0.11
Sample RPD:	N/C	0G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Spiked Result:	0.20	0.81
Spike Added:	0.20	1.00
% Recovery:	100	70
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.97
True Result:	0.20	2.00
% Recovery:	100	99
% Rec Limits:	90-110	90-110

LCS

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

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708387 Date Received: 22-Aug-97

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

Airbill Number(s): 2949975691/2949975813

Shipped By: FEDEX

Cooler Number(s): N/S Client Coolers

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PHE Date: 8/22/97 Logged By: PHE Date: 8/22/97

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

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

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

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

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708387

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	NO_3	NO_2	TOX	TOC	Gen Chemistry	pH		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		007515		NUMBER OF CONTAINERS
708376 -01	8-21	1500	AQ	1					X	X				X																			
-02		1218		2					X	X				X																			
-03		1338		3					X	X				X																			

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT NUMBER:	708376-	TOTAL NUMBER OF CONTAINERS		SAN DIEGO	
PROJECT NAME:	Sperton	CHAIN OF CUSTODY SEALS		Paragon	
QC LEVEL:	STD. IV	INTACT?		RENTON	
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD		PENSACOLA	X
TAT	STANDARD RUSH	LAB NUMBER		PORTLAND	
				PHOENIX	

DUE DATE: 9-3
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: YES NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time: 8/22/97
Printed Name: Brian Price Date: 8-21-97	Printed Name: Date:
Albuquerque NM	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 0823
Printed Name: Date:	Printed Name: R. ELSPERMAN Date: 8/22/97
Company:	Company: AENFL

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

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

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515 708387

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.3015) Diesel/Direct/Inject	TOX (1)	(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)	Nitrate as N (2)	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec Cond., Cl, SO_4 (1)	General Chemistry:	pH (1)	Cr^{+6} (1)	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr^{+3} (6)	TOC (1)	NUMBER OF CONTAINERS (12)
MW-14	8-21-97	1300	H2O	[illegible]			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	[illegible]			X							X			X		X				X		X	X					X	X	12
MW-22	"	1356	"	[illegible]			X							X			X		X				X		X	X					X	X	12

007516

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJ. NO.: 082197-A2	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X	Signature: [illegible] Time: 4:31	Signature: Time:
PROJ. NAME: AGMP-3097-AP	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER	Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
P.O. NO.: 50650-02-06	METHANOL PRESERVATION ☐	Company: S.T.I. 892-5300	Company:
SHIPPED VIA: Delivered	COMMENTS: FIXED FEE ☐	RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
SAMPLE RECEIPT	C of C Seals on cooler	Signature: Time:	Signature: [illegible] Time: 4:31
NO. CONTAINERS: 36		Printed Name: Date:	Printed Name: Brian Pisa Date: 8-21-97
CUSTODY SEALS: [illegible]		Company:	American Environmental Network (NM), Inc.
RECEIVED INTACT: [illegible]			
BLUE ICE/ICE: [illegible]	From Field		

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Lucda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTAN TECHNOLOGY
Project Number:	708376
Project Location:	AGMP-3Q97-AP
Accession Number:	708437
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	32	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW018	
SULFATE (375.4)	MG/L	150	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708376-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	16	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	600	1	CDW018	
SULFATE (375.4)	MG/L	73	20	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708376-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	17	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW018	
SULFATE (375.4)	MG/L	78	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	26-AUG-97
708376-02	002	WATER	21-AUG-97 1218	26-AUG-97
708376-03	003	WATER	21-AUG-97 1358	26-AUG-97

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	CHLORIDE (325.3)	MG/L	32
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
	SULFATE (375.4)	MG/L	150
708376-02	CHLORIDE (325.3)	MG/L	16
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	600
	SULFATE (375.4)	MG/L	73
708376-03	CHLORIDE (325.3)	MG/L	17
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
	SULFATE (375.4)	MG/L	78

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	METALS

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	26-AUG-97
708376-02	002	WATER	21-AUG-97 1218	26-AUG-97
708376-03	003	WATER	21-AUG-97 1358	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID:001		
BORON (200.7)	MG/L	0.91	0.09	O0W215	
CHROMIUM (200.7)	MG/L	0.68	0.01	H0W215	
MANGANESE (200.7)	MG/L	ND	0.01	G0W215	
SODIUM (200.7)	MG/L	56	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					
Client ID: 708376-02			Lab ID:002		
BORON (200.7)	MG/L	0.14	0.09	O0W215	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W215	
MANGANESE (200.7)	MG/L	0.03	0.01	G0W215	
SODIUM (200.7)	MG/L	42	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					
Client ID: 708376-03			Lab ID:003		
CHROMIUM (200.7)	MG/L	ND	0.01	H0W215	
BORON (200.7)	MG/L	0.18	0.09	O0W215	
MANGANESE (200.7)	MG/L	0.04	0.01	G0W215	
SODIUM (200.7)	MG/L	46	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	BORON (200.7)	MG/L	0.91
	CHROMIUM (200.7)	MG/L	068
	SODIUM (200.7)	MG/L	56
708376-02	BORON (200.7)	MG/L	0.14
	MANGANESE (200.7)	MG/L	0.03
	SODIUM (200.7)	MG/L	42
708376-03	BORON (200.7)	MG/L	0.18
	MANGANESE (200.7)	MG/L	0.04
	SODIUM (200.7)	MG/L	46

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 001
Client Sample Id: 708376-01

Sample Date/Time: 21-AUG-97 1500
Received Date: 26-AUG-97

Batch: TOW080
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 03-SEP-97

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 002 Sample Date/Time: 21-AUG-97 1218
Client Sample Id: 708376-02 Received Date: 26-AUG-97

Batch: TOW080 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-SEP-97

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 21-AUG-97 1358
Client Sample Id: 708376-03 Received Date: 26-AUG-97

Batch: TOW080 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-SEP-97

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	TOTAL ORGANIC CARBON	MG/L	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001
Client Sample Id: 708376-01

Sample Date/Time: 21-AUG-97 1500
Received Date: 26-AUG-97

Batch: TXW043
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	7.8	10	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002
Client Sample Id: 708376-02

Sample Date/Time: 21-AUG-97 1218
Received Date: 26-AUG-97

Batch: TXW043
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	26	10	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 21-AUG-97 1358
Client Sample Id: 708376-03 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	60	10	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	TOTAL ORGANIC HALIDES	MG/L	7.8
708376-02	TOTAL ORGANIC HALIDES	MG/L	26
708376-03	TOTAL ORGANIC HALIDES	MG/L	60

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 03-Sep-97

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	SULFATE	TKN AUTO
Batch Id:	CIW081	CDW018	SEW069	TAW41D
Blank Result:	<1	<1	<10	<0.5
Anal. Method:	325.3	120.1	375.4	351.2
Prep. Method:	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	29-AUG-97	27-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	29-AUG-97	27-AUG-97	25-AUG-97
Sample Duplication				
Sample Dup:	708383-1	708383-3	708383-1	708383-1
Rept Limit:	<1	<1	<50+	<0.5
Sample Result:	18.7	4.4	116.5	<0.5
Dup Result:	18.9	4.4	115.5	<0.5
Sample RPD:	1	0G	1G	N/C
Max RPD:	6	1	50	0.5
Dry Weight%	N/A	N/A	N/A	N/A
Matrix Spike				
Sample Spiked:	708383-1	N/A	708383-1	708383-1
Rept Limit:	<1	N/A	<100+	<0.5
Sample Result:	18.7		116.5	<0.5
Spiked Result:	76.5		296.0	4.41
Spike Added:	55.0		200.0	4.00
% Recovery:	105		90	110
% Rec Limits:	88-113		64-150	64-122
Dry Weight%	N/A		N/A	N/A
ICV				
ICV Result:	93.5	1433	21.3	10.37
True Result:	100	1412	20.0	10.00
% Recovery:	94	101	107	104
% Rec Limits:	90-110	90-110	90-110	90-110
LCS				
LCS Result:				8.86
True Result:				10.00
% Recovery:				89
% Rec Limits:				67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97
TAW41D	708427-1; 708437-1,2,3; WERE ADDED TO BATCH ON 26-AUG-97
TAW41D	708448-1,2,3,; 708440-5 WERE ADDED TO BATCH ON 27-AUG-97

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

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

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

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

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	METALS

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W215	H0W215	G0W215	10W215	E0W215
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	04-SEP-97	08-SEP-97	09-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	28-AUG-97
Sample Duplication					
Sample Dup:	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.9	2.7	2.0	76	2.0
Dup Result:	2.9	2.7	2.0	76	2.0
Sample RPD:	0	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	0.91	0.68	<0.01	56	<0.02
Spiked Result:	2.9	2.7	2.0	76	2.0
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	100	101	100	100	100
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.0	5.0	4.9	25	4.8
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	100	100	98	100	96
% Rec Limits:	90-110	90-110	90-110	90-110	90-110
LCS					
LCS Result:	2.0	20	2.1	20	2.1
True Result:	2.0	20	2.0	20	2.0
% Recovery:	100	100	105	100	105
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
O0W215	ANALYST: JR
O0W215	The results reported under "Sample Duplication" are the MS/MSD.
H0W215	ANALYST: JLH
H0W215	The results reported under "Sample Duplication" are the MS/MSD.
G0W215	ANALYST: JLH
G0W215	The results reported under "Sample Duplication" are the MS/MSD.
10W215	ANALYST: JLH
10W215	The results reported under "Sample Duplication" are the MS/MSD.
E0W215	ANALYST: JLH
E0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

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

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

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

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

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

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-SEP-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-2

MS Date Analyzed: 03-SEP-97
MSD Date Analyzed: 03-SEP-97

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	7.2	107	7.2	107	0	30	51-135

Surrogates:

Comments:

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

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
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.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

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 LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

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

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

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 05-SEP-97 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

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

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	7.84	7.92	160*	7.90	120	29*	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

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

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

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

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

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

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

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

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

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

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

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

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

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

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708437 Date Received: 26-Aug-97

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

Red folder

Airbill Number(s): 2950482403

Shipped By: Fedx

Cooler Number(s): N/S

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 10 C

CCK5

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

ALL ME PH's < 2 LK 8/26/97

COC request HXCR, but per L. Lopton this Analysis is being performed @ AEN/~~ALBG~~ AZ. LK 8/26/97

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: L. Kitt Date 26-Aug-97 Logged By: L. Kitt Date 26-Aug-97

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

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

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

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

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE 8-26 PAGE 1 OF 1

007553

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

708437

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mn, Ni; Na Cr		TOX	TOC	Gen Chemistry: TKN cond, cl sol			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
708376-01	8-21	1500	AQ						X		X	X	X																					
-02		1214							X		X	X	X																					
-03		1358							X		X	X	X																					

PROJECT INFORMATION	
PROJECT NUMBER	~~Short~~ 708376
PROJECT NAME	Spartan technology
QC LEVEL	(STD) IV
QC REQUIRED	MS MSD BLANK
TAT	(STANDARD) RUSH

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

DUE DATE: 9-3
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: YES NO

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1700
Printed Name: Brian Price Date: 8-25-97
Albuquerque NM

RELINQUISHED BY: 2
Signature Time
Printed Name Date
Company

RECEIVED BY: 1.
Signature: Linda Kitt Time: 0840
Printed Name: Linda Kitt Date: 8/26/97
Company: AEN/71

RECEIVED BY: (LAB) 2.
Signature: Time:
Printed Name: Date:
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

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO_4 1	General Chemistry:	pH 1	Cr^{+6} 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr^{+3} (6)	TOC 1	NUMBER OF CONTAINERS 12
MW-14	8-21-97	1500	H2O	-01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X		X	X					X	X	12

007554

PROJECT INFORMATION	
PROJ. NO.:	082197 - A2
PROJ. NAME:	AGMP-3Q97-AP
P.O. NO.:	50650-02-06
SHIPPED VIA:	Delivered
SAMPLE RECEIPT	
NO. CONTAINERS	36
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	16

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [signature] Time: 4:31
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Enviromental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21 PAGE 1 OF 1

007555

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr Pb (Hexavalent)		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
708376 -01	8-21	1500	AQ	1					X																								
-02		1218		2					X																								
-03		1358		3					X																								

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER: 708376	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: Time: 1700	Signature Time
	CHAIN OF CUSTODY SEALS	Paragon	Printed Name: Date: 8-21-97	Printed Name Date

708361

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

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(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)	Nitrate as N	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO4	General Chemistry:	Pb	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
							1							2			2		1				1			1	1			6	1		12
MW-14	8-21-97	1300	H2O	-01			X							X			X		X				X		X	X				X	X		12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X				X	X		12
MW-22	"	1356	"	-03			X							X			X		X				X		X	X				X	X		12

PROJECT INFORMATION

PROJ. NO.: 082197-A2

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NELAC ☐ SDWA ☐ OTHER

cooler

RELINQUISHED BY: 1.
Signature: Time: 4:31
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company: American Environmental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21 PAGE 1 OF 1

00755

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr (Hexavalent)		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
708376-01	8-21	1500	AQ	1					X																								
1 -02	1	1218	1	2					X																								
1 -03	1	1358	1	3					X																								

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER 708376	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: Time: 1700	Signature Time
	CUSTODY SEALS	Paragon	Printed Name: Date: 8/21/92	Printed Name Date

708361

Labs: San Diego (619) 458 9141 • Phoenix (602) 496 4400 • Seattle (206) 226 8335 • Pensacola (904) 474 1001 • Portland (503) 684 0447 • Albuquerque (505) 344 3777

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (802/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (801/8010)	Nitrate as N	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec Cond., Cl, SO4	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
							1							2			2		1				1		1	1					3	1	12
MW-14	8-21-97	1300	GW	-01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1398	"	-03			X							X			X		X				X		X	X					X	X	12

007558

PROJECT INFORMATION
PROJ. NO.: 082197 - A2

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X
CERTIFICATION REQUIRED: ☐ NELAP ☐ SDWA ☐ OTHER

cooler

RELINQUISHED BY: 1.
Signature: Time: 4:31
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

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

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

RECEIVED BY: 2.
Signature: Time:
Printed Name: Date:
Company: American Environmental Network (NM), Inc.

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

00755

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 3	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO_4 1	General Chemistry:	pH 1	Cr^{+6} 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr^{+3} 6	TOC 1	NUMBER OF CONTAINERS 12
MW-14	8-21-97	1200	H2O	-01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X		X	X					X	X	12

PROJECT INFORMATION	
PROJ. NO.: 082197-A2	
PROJ. NAME: AGMP-3Q97-AP	
P.O. NO.: 50650-02-06	
SHIPPED VIA: Delivered	
SAMPLE RECEIPT	
NO. CONTAINERS	36
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	16

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐NM ☐SDWA ☐OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [signature] Time: 4:31
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Environmental Network (NM), Inc.