

American Environmental Network, Inc.

~~As shipped~~ AS, K Effluent
~~Dissolved~~ Sampled: DMW
10-3-97

AEN I.D. 708376

Revised

September 29, 1997

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

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

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.

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

007483

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

007485

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	Limits % Rec
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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

007496

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

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

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

007497

DATE OF ANALYSIS REPORT

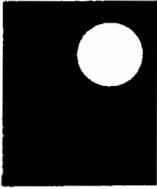
AEN ID: 708361

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:

Lucia 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

007499

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

007500

"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:					

"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 Matrix: ID:	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

007503

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

007504

"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:

"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 Matrix: ID:	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

007507

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

007508

"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

007509

----- 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 MICROBIOLOGICAL 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 LMITS = 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

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

007511

"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.
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 - * = 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
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 - 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".
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AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN
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 - ***= MATRIX INTERFERENCE
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 - 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 MICROBIOLOGICAL PROPERTIES, 2ND EDITION.
 - AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.
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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 #: 708387

Date Received: 22-Aug-97

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Was there a Chain of Custody? <input checked="" type="radio"/> Yes No⁺</p> <p>2. Was Chain of Custody properly filled out and relinquished? <input checked="" type="radio"/> Yes No⁺</p> <p>3. Were samples received cold? <input checked="" type="radio"/> Yes No⁺ N/A
(Criteria: 1° - 4°C: AEN-SOP 1055)</p> <p>4. Were all samples properly labeled and identified? <input checked="" type="radio"/> Yes No⁺</p> <p>5. Did samples require splitting? Yes⁺ <input checked="" type="radio"/> No
Req By: PM Client Other⁺</p> <p>6. Were samples received in proper containers for analysis requested? <input checked="" type="radio"/> Yes No⁺</p> <p>7. Were all sample containers received intact? <input checked="" type="radio"/> Yes No⁺</p> | <p>8. Were samples checked for preservative? <input checked="" type="radio"/> Yes No⁺ N/A
<i>(Check pH of all H₂O requiring preservative except VOA vials that require zero headspace)⁺</i></p> <p>9. Is there sufficient volume for analysis requested? <input checked="" type="radio"/> Yes No⁺</p> <p>10. Were samples received within Holding Time? <input checked="" type="radio"/> Yes No⁺
<i>(REFER TO AEN-SOP 1040)</i></p> <p>11. Is Headspace visible > ¼" in diameter in VOA vials? * If any headspace is evident, comment in out-of-control section. Yes⁺ No <input checked="" type="radio"/> N/A</p> <p>12. If sent, were matrix spike bottles returned? Yes No⁺ <input checked="" type="radio"/> N/A</p> <p>13. Was Project Manager notified of problems? (initials: _____) Yes No⁺ <input checked="" type="radio"/> N/A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Airbill Number(s): 294 9975 691/2949975 813

Shipped By: FEDEX

Cooler Number(s): N/A
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: P/E Date: 8/22/97 Logged By: P/E 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).

007514



Interlab Chain of Custody

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL						ANALYSIS REQUEST																							
COMPANY: American Environmental Network ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107 <div style="text-align: center; font-size: 2em; font-family: cursive;">708387</div>						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 (624/8240)	Volatile Organics GC/MS (610/8310)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	TO-14	Gross Alpha/Beta	007515	NUMBER OF CONTAINERS
CLIENT PROJECT MANAGER: Kim McNeill						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 (624/8240)	Volatile Organics GC/MS (610/8310)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	TO-14	Gross Alpha/Beta	007515	NUMBER OF CONTAINERS
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 (624/8240)	Volatile Organics GC/MS (610/8310)	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	AA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
I	-02	I	1218	I	2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
I	-03	I	1358	I	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

PROJECT INFORMATION			SAMPLE RECEIPT			SAMPLES SENT TO:			RELINQUISHED BY: 1.			RELINQUISHED BY: 2.		
PROJECT NUMBER: 708376-			TOTAL NUMBER OF CONTAINERS			SAN DIEGO			Signature: [Signature] Time: 1700			Signature: [Signature] Time: 8/22/97		
PROJECT NAME: Spartan			CHAIN OF CUSTODY SEALS			Paragon			Printed Name: [Signature] Date: 8-21-97			Printed Name: [Signature] Date: 8/22/97		
QC LEVEL: <u>STD</u> IV			INTACT?			RENTON			Albuquerque [Signature]			Company: [Signature]		
ACQUIRED: MS MSD BLANK			RECEIVED GOOD COND/COLD			PENSACOLA			RECEIVED BY: 1. Signature: [Signature] Time: [Signature] Printed Name: [Signature] Date: [Signature] Company: [Signature]			RECEIVED BY: (LAB) 2. Signature: [Signature] Time: 0823 Printed Name: R. ELSPERMAN Date: 8/22/97 Company: AENFL		
TAI <u>STANDARD</u> PUSH			LAB NUMBER			PORTLAND								
DUE DATE: 9-7						PIQUENIX								
MUSH SIGNATURE: _____														
CLIENT DISCOUNT: _____														
SPECIAL CERTIFICATION REQUIRED: I YES I NO														

HUB 60: 15. 77 90

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

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

AEN LAB ID: 208376

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John H. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
 Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515 208387
BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
 4901 Rockaway Blvd., NE
 Rio Rancho, NM 87124

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	ANALYSIS REQUEST
MW-14	8-21-97	1500	410	201	Petroleum Hydrocarbons (418.1) TRPH (MOD.3015) Diesel/Direct/Inject
MW-21	11	1218	11	201	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 (601/8010)
MW-22	11	1356	11	201	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, SO ₄ 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

007516

PROJECT INFORMATION

PROJ. NO.: 082197-A2
 PROJ. NAME: ASMP-3097-AP
 P.O. NO.: 50650-02-06

SHIPMENT VIA: Delivered

COMMENTS: FIXED FEE
 C of C Seals on cooler

PRELIMINARY INFORMATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: INM SDWA OTHER

METHANOL PRESERVATION

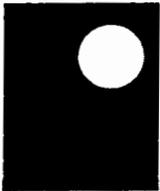
RECEIVED BY: 1. Signature: [Signature] Time: 4:31 Date: 8-21-97
 Company: John Wakefield

RECEIVED BY (LAB): 2. Signature: [Signature] Time: 4:31 Date: 8-21-97
 Company: American Environmental Network (AEN), Inc.

PRINTED NAME: [Name] DATE: [Date]

PRINTED NAME: [Name] DATE: [Date]

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 DISTRIBUTION: White, Canary - AEN Park - ORIGINATOR



American Environmental Network, Inc.

11 EAST OLIVE ROAD • PENSACOLA, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by:


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

007517

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

007518

"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:					

"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 Matrix: ID:	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

007521

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

007522

"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 Matrix: Id:	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

007523

"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

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

007526

"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	Sample Date/Time:	21-AUG-97 1500
Client Sample Id:	708376-01	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	2	1	
ANALYST	INITIALS	KL		

Comments:

007527

"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:

"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:

007529

"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

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

007531

"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 Sample Date/Time: 21-AUG-97 1500
Client Sample Id: 708376-01 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	7.8	10	
ANALYST	INITIALS	KL		

Comments:

007532

"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:

"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

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

007536

"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

"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 MICROBIOLOGICAL 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 HASENDORFER MG = MARY GUTIERREZ

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

007540.

"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

007541

"Quality Control Comments"

Batch Id: Comments:

OOW215	ANALYST: JR
OOW215	The results reported under "Sample Duplication" are the MS/MSD.
HOW215	ANALYST: JLH
HOW215	The results reported under "Sample Duplication" are the MS/MSD.
GOW215	ANALYST: JLH
GOW215	The results reported under "Sample Duplication" are the MS/MSD.
10W215	ANALYST: JLH
10W215	The results reported under "Sample Duplication" are the MS/MSD.
EOW215	ANALYST: JLH
EOW215	The results reported under "Sample Duplication" are the MS/MSD.

007542

----- 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 LMITS = 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

007543

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

007544

"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:

007545

"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 MS Date Analyzed: 03-SEP-97 MS Date Extracted: N/A
Sample Spiked: 708437-2 MSD Date Analyzed: 03-SEP-97 MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec 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.

007546

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

007547

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

007548

"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:

007549

"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 MS Date Analyzed: 05-SEP-97 MS Date Extracted: N/A
 Sample Spiked: 708437-1 MSD Date Analyzed: 05-SEP-97 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

007551

American Environmental Network of Florida

PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708437

Date Received: 26-Aug-97

- | | |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Was there a Chain of Custody? <input checked="" type="radio"/> Yes No* | 8. Were samples checked for preservative? (Check pH of all H ₂ O requiring preservative except VOA vials that require zero headspace)* <input checked="" type="radio"/> Yes No* N/A |
| 2. Was Chain of Custody properly filled out and relinquished? <input checked="" type="radio"/> Yes No* | 9. Is there sufficient volume for analysis requested? <input checked="" type="radio"/> Yes No* |
| 3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) <input checked="" type="radio"/> Yes No* N/A | 10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) <input checked="" type="radio"/> Yes No* |
| 4. Were all samples properly labeled and identified? <input checked="" type="radio"/> 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 <input checked="" type="radio"/> N/A |
| 5. Did samples require splitting? Req By: PM Client Other* Yes* <input checked="" type="radio"/> No | 12. If sent, were matrix spike bottles returned? Yes No* <input checked="" type="radio"/> N/A |
| 6. Were samples received in proper containers for analysis requested? <input checked="" type="radio"/> Yes No* | 13. Was Project Manager notified of problems? (initials: _____) <input checked="" type="radio"/> Yes No* <input checked="" type="radio"/> N/A ^{JK} 8/26/97
Red folder |
| 7. Were all sample containers received intact? <input checked="" type="radio"/> Yes No* | |

Airbill Number(s): 2950482 403

Shipped By: Yedx

Cooler Number(s): N/A

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 10 C

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION) CCR5

Out of Control Events and Inspection Comments:

ALL ME PH'S < 2 ^{JK} 8/26/97

CDC request HXCR, but per K. Hopton this analysis is being performed @ AEN/ALBQ, AZ ^{JK} 8/26/97

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: J. Kitt Date 26-Aug-97 Logged By: J. 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).



Interlab Chain of Custody

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL					ANALYSIS REQUEST																				
COMPANY: American Environmental Network ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107 <div style="font-size: 2em; text-align: center; margin-top: 20px;">708437</div>					Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mg, Ni, Na, Cr, Pb	TOX	TOC	Gen Chemistry: TKN, cond, cl, 504	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
CLIENT PROJECT MANAGER: Kim McNeill					Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mg, Ni, Na, Cr, Pb	TOX	TOC	Gen Chemistry: TKN, cond, cl, 504	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
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mg, Ni, Na, Cr, Pb	TOX	TOC	Gen Chemistry: TKN, cond, cl, 504	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														
I-02	I	1219	I					X	X	X	X														
I-03	I	1358	I					X	X	X	X														

007553

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:	
PROJECT NUMBER: <u>Spartan 708376</u>	TOTAL NUMBER OF CONTAINERS: _____	SAN DIEGO	RELINQUISHED BY: 1. Signature: _____ Time: _____	Paragon		Signature: _____ Time: _____	
PROJECT NAME: <u>Spartan technology</u>	CHAIN OF CUSTODY SEALS	RENTON	RELINQUISHED BY: 2. Signature: _____ Time: _____	PENSACOLA		Signature: _____ Time: _____	
CK LEVEL: <u>(811) IV</u>	INTACT? _____	PORTLAND	RELINQUISHED BY: 1. Signature: _____ Time: _____	PHOENIX		Signature: _____ Time: _____	
CK REQUIRED: <u>MS MSD BLANK</u>	RECEIVED GOOD COND/COLD		RELINQUISHED BY: 2. Signature: _____ Time: _____			Signature: _____ Time: _____	
IAI: <u>(STANDARD) RUSH</u>	LAB NUMBER		RELINQUISHED BY: 1. Signature: _____ Time: _____			Signature: _____ Time: _____	
INJE DATE: <u>8-3</u>			RELINQUISHED BY: 2. Signature: _____ Time: _____			Signature: _____ Time: _____	
RUSH SURCHARGE: _____			RELINQUISHED BY: 1. Signature: _____ Time: _____			Signature: _____ Time: _____	
CLIENT DISCOUNT: _____			RELINQUISHED BY: 2. Signature: _____ Time: _____			Signature: _____ Time: _____	
SPECIAL CERTIFICATION REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			RELINQUISHED BY: 1. Signature: _____ Time: _____			Signature: _____ Time: _____	

CHAIN OF CUSTODY

AEN LAB I.D.

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

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 (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, SO ₄	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: Pb, Mn, Ni, Na, Cr+3 (6)	NUMBER OF CONTAINERS		
MW-14	8-21-97	1500	tlc	-01		X						X			X	X	X			X	X	X										
MW-21	15	1218	tlc	-02		X						X			X	X	X			X	X	X										
MW-22	16	1358	tlc	-03		X						X			X	X	X			X	X	X										

007554

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJ. NO.: <u>082197-A2</u>		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>		Signature: <u>[Signature]</u> Time: <u>4:31</u>		Signature: _____ Time: _____	
PROJ. NAME: <u>AGMP-3097-AP</u>		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name: _____ Date: <u>8-21-97</u>		Printed Name: _____ Date: _____	
P.O. NO.: <u>50650-02-06</u>		METHANOL PRESERVATION <input type="checkbox"/>		Company: <u>John Wakefield</u>		Company: _____	
SHIPPED VIA: <u>Delivered</u>		COMMENTS: FIXED FEE <input type="checkbox"/>		S.T.I. <u>892-5300</u>		RECEIVED BY: 1.	
SAMPLE RECEIPT		C of C Seals on cooler		RECEIVED BY: 2.		RECEIVED BY: (LAB)	
NO. CONTAINERS	<u>36</u>			Signature: _____ Time: <u>4:31</u>		Signature: _____ Time: _____	
CUSTODY SEALS	<u>Y/N/NA</u>			Printed Name: _____ Date: _____		Printed Name: <u>Brian Prew</u> Date: <u>8-21-97</u>	
RECEIVED INTACT	<u>yes</u>			Company: _____		Company: <u>American Environmental Network (NM), Inc.</u>	
BLUE ICE/ICE	<u>16</u>			<u>From Field</u>			



Interlab Chain of Custody

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL					ANALYSIS REQUEST																			
COMPANY: American Environmental Network ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107					Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	TOX	TOC	Gen Chemistry	Oil and Grease	BOD	COD	Pesticides/PCB (608/6080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (825/8240)	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
CLIENT PROJECT MANAGER: Kim McNeill																								
SAMPLE ID	DATE	TIME	MATRIX	LAB ID																				
708376-01	8-21	1500	AR	1																				
1-02	1	1218	1	2																				
1-03	1	1358	1	3																				

007555

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT NUMBER: 708376	CLIENT CUSTODY BY SERIALS	TOTAL NUMBER OF CONTAINERS	CLIENT CUSTODY BY SERIALS	SAN DIEGO	Paragon	Signature: <i>[Signature]</i>	Time: 1700	Signature:	Time:
708361						Date: 8-21-97		Printed Name:	Date:

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.
MW-14	8-21-97	1500	60	01
MW-21	15	1218	4	02
MW-22	15	1356	4	03

Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)	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)	Elem. Cond. Cl, SO ₄	General Chemistry:	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, 61	NUMBER OF CONTAINERS
XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12
XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12

007556

PLEASE FILL THIS IN COMPLETELY.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJ. NO.: <u>082197-A2</u>	(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>	Signature: <u>[Signature]</u>	Time: <u>4:31</u>	Signature: _____	Time: _____	Signature: _____	Time: _____
CERTIFICATION REQUIRED: <input type="checkbox"/> EPA <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER	Printed Name: <u>John Wakefield</u>	Date: <u>8-21-97</u>	Printed Name: _____	Date: _____	Printed Name: _____	Date: _____	Printed Name: _____
cooler	Company: <u>SPARTON TECHNOLOGY, INC.</u>	Signature: _____	Time: _____	Signature: _____	Time: _____	Signature: _____	Time: _____
	Signature: <u>[Signature]</u>	Time: _____	Time: _____	Signature: _____	Time: _____	Signature: _____	Time: _____
	Printed Name: _____	Date: _____	Date: _____	Printed Name: _____	Date: _____	Printed Name: _____	Date: _____
	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____	Company: _____



Interlab Chain of Custody

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL					ANALYSIS REQUEST																			
COMPANY: American Environmental Network ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107					Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	TOX	TOC	Gen Chemistry	Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	TO-14	Gross Alpha/Beta	NUMBER OF CONTAINERS
CLIENT PROJECT MANAGER: Kim McNeill					<div style="display: flex; justify-content: space-between; align-items: center;"> 007557 </div>																			
SAMPLE ID	DATE	TIME	MATRIX	LAB #																				
708376-01	8-21	1500	AR	1																				
708376-02	8-21	1218	AR	2																				
708376-03	8-21	1358	AR	3																				

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT NUMBER	708376	TOTAL NUMBER OF CONTAINERS		SAN DIEGO		Signature:	Time:	Signature:	Time:
		CLIENT PROJECT MANAGER'S		Paragon		<i>[Signature]</i>	1700		
						Print Name:	Date:	Print Name:	Date:
						Kim McNeill	8/23/97		

CHAIN OF CUSTODY

AEN LAB I.D.

708 376

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

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 (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)	Elem. Cond. Cl, SO ₄	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	NUMBER OF CONTAINERS	
MW-14	8-21-97	1500	tl0	-01		X							X			X		X			X	X	X	X						X	X	1
MW-21	11	1218	11	-02		X							X			X		X			X	X	X	X						X	X	1
MW-22	11	1358	11	-03		X							X			X		X			X	X	X	X						X	X	1

PLEASE FILL THIS FORM IN COMPLETELY.

655200

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJ. NO.: 082197-A2		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>		Signature: [Signature] Time: 4:31		Signature: _____ Time: _____	
PROJ. NAME: AGMP-3097-AP		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name: Date: 8-21-97		Printed Name: Date: _____	
P.O. NO.: 50650-02-06		METHANOL PRESERVATION <input type="checkbox"/>		John Wakefield		Company: _____	
SHIPPED VIA: Delivered		COMMENTS: FIXED FEE <input type="checkbox"/>		S.T.I. 892-5300		Company: _____	
SAMPLE RECEIPT		C of C Seals on cooler From Field		RECEIVED BY: 1.		RECEIVED BY: (LAB) 2.	
NO. CONTAINERS	36			Signature: _____ Time: 4:31		Signature: [Signature] Time: 4:31	
CUSTODY SEALS	Y/N/NA			Printed Name: _____ Date: _____		Printed Name: [Signature] Date: 8-21-97	
RECEIVED INTACT	yes			Company: _____		Company: American Environmental Network (NM), Inc.	
BLUE ICE/ICE	16						