

American Environmental Network

(formerly Analytical Technologies Inc.)

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2nd Report - 9 pgs
3rd Report - 9 pgs

FROM:

DATE: 4/23

X H. Mitchell Rubenstein, Ph.D., Lab Manager
Kimberly D. McNeill, Project Manager
Andrew Parker
Ellen Dolock

TIME: 8⁰⁰A

FAX NUMBER: (505) 344-4413

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3WB-00560-SPARTON

COMMENTS:

John Wakefield of Sperton Tech. requested that I fax a copy of these gas vapor reports to you.

If you did not receive all pages of this transmission or if you experience Fax Transmission problems, Please call (505) 344-3777, as soon as possible after receipt.

AEN I.D. 604356

April 16, 1996

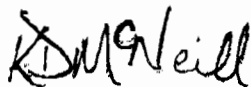
Sparton Technology Inc.
4901 Rockaway Blvd SE
Rio Rancho, NM 87124-4469

Project Name/Number: SVS-2Q96 041296

Attention: John Wakefield

On 04/12/96, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) (formerly ATI-NM), received a request to analyze air 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.

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.
Laboratory Manager

MR:jt

Enclosure

OGC-002027

GWB-00559-SPARTON

CLIENT : SPARTON TECHNOLOGY INC. DATE RECEIVED : 04/12/96
 PROJECT # : 041296
 PROJECT NAME : SVS-2Q96 REPORT DATE : 04/16/96

AEN ID: 604356

AEN #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-21 0.0	AIR	04/12/96
02	MW-14 2.5	AIR	04/12/96
03	MW-61 0.3	AIR	04/12/96

---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AIR	3

OGC-002028

AEN STANDARD DISPOSAL PRACTICE

GWB-00558-SPARTON

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.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 8010/8020)
 CLIENT : SPARTON TECHNOLOGY INC. AEN I.D.: 604356
 PROJECT # : 041296
 PROJECT NAME : SVS-2Q96

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-21 0.0	AIR	04/12/96	NA	04/13/96	1
02	MW-14 2.5	AIR	04/12/96	NA	04/12/96	1
03	MW-61 0.3	AIR	04/12/96	NA	04/12/96	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/M ³	<0.05	<0.05	<0.05
BROMODICHLOROMETHANE	MG/M ³	<0.02	<0.02	<0.02
BROMOFORM	MG/M ³	<0.05	<0.05	<0.05
BROMOMETHANE	MG/M ³	<0.10	<0.10	<0.10
CARBON TETRACHLORIDE	MG/M ³	<0.02	<0.02	<0.02
CHLOROBENZENE	MG/M ³	<0.05	<0.05	<0.05
CHLOROETHANE	MG/M ³	<0.05	<0.05	<0.05
CHLOROFORM	MG/M ³	<0.05	<0.05	<0.05
CHLOROMETHANE	MG/M ³	<0.10	<0.10	<0.10
DIBROMOCHLOROMETHANE	MG/M ³	<0.02	<0.02	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ³	<0.02	<0.02	<0.02
1,2-DICHLOROBENZENE	MG/M ³	<0.05	<0.05	<0.05
1,3-DICHLOROBENZENE	MG/M ³	<0.05	<0.05	<0.05
1,4-DICHLOROBENZENE	MG/M ³	<0.05	<0.05	<0.05
1,1-DICHLOROETHANE	MG/M ³	<0.03	<0.03	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ³	<0.05	<0.05	<0.05
1,1-DICHLOROETHENE	MG/M ³	0.84	0.93	0.02
CIS-1,2-DICHLOROETHENE	MG/M ³	<0.02	0.02	<0.02
TRANS-1,2-DICHLOROETHENE	MG/M ³	<0.10	<0.10	<0.10
1,2-DICHLOROPROPANE	MG/M ³	<0.02	<0.02	<0.02
CIS-1,3-DICHLOROPROPENE	MG/M ³	<0.02	<0.02	<0.02
TRANS-1,3-DICHLOROPROPENE	MG/M ³	<0.02	<0.02	<0.02
ETHYLBENZENE	MG/M ³	<0.05	<0.05	<0.05
METHYL-t-BUTYL ETHER	MG/M ³	<0.25	<0.25	<0.25
METHYLENE CHLORIDE	MG/M ³	<0.20	<0.20	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ³	<0.02	<0.02	<0.02
TETRACHLOROETHENE	MG/M ³	0.13	0.14	<0.05
TOLUENE	MG/M ³	<0.05	<0.05	<0.05
1,1,1-TRICHLOROETHANE	MG/M ³	3.6 D(10)	0.29	<0.10
1,1,2-TRICHLOROETHANE	MG/M ³	<0.02	<0.02	<0.02
TRICHLOROETHENE	MG/M ³	6.2 D(10)	15 D(25)	0.59
TRICHLOROFLUOROMETHANE	MG/M ³	<0.02	<0.02	<0.02
VINYL CHLORIDE	MG/M ³	<0.05	<0.05	<0.05
TOTAL XYLENES	MG/M ³	<0.05	<0.05	<0.05

SURROGATES:

BROMOCHLOROMETHANE (%)	92	100	89
TRIFLUOROTOLUENE (%)	96	81	91

D(10)=DILUTED 10X, ANALYZED 04/13/96
 D(25)=DILUTED 25X, ANALYZED 04/13/96

GWB-00557-SPARTON

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

TEST	: EPA 8010/8020	AEN I.D.	: 604356
BLANK I.D.	: 041296	MATRIX	: AIR
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 041296	DATE ANALYZED	: 04/12/96
PROJECT NAME	: SVS-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/M ³	<0.05
BROMODICHLOROMETHANE	MG/M ³	<0.02
BROMOFORM	MG/M ³	<0.05
BROMOMETHANE	MG/M ³	<0.10
CARBON TETRACHLORIDE	MG/M ³	<0.02
CHLOROBENZENE	MG/M ³	<0.05
CHLOROETHANE	MG/M ³	<0.05
CHLOROFORM	MG/M ³	<0.05
CHLOROMETHANE	MG/M ³	<0.10
DIBROMOCHLOROMETHANE	MG/M ³	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ³	<0.02
1,2-DICHLOROBENZENE	MG/M ³	<0.05
1,3-DICHLOROBENZENE	MG/M ³	<0.05
1,4-DICHLOROBENZENE	MG/M ³	<0.05
1,1-DICHLOROETHANE	MG/M ³	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ³	<0.05
1,1-DICHLOROETHENE	MG/M ³	<0.02
CIS-1,2-DICHLOROETHENE	MG/M ³	<0.02
TRANS-1,2-DICHLOROETHENE	MG/M ³	<0.10
1,2-DICHLOROPROPANE	MG/M ³	<0.02
CIS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
TRANS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
ETHYLBENZENE	MG/M ³	<0.05
METHYL-t-BUTYL ETHER	MG/M ³	<0.25
METHYLENE CHLORIDE	MG/M ³	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ³	<0.02
TETRACHLOROETHENE	MG/M ³	<0.05
TOLUENE	MG/M ³	<0.05
1,1,1-TRICHLOROETHANE	MG/M ³	<0.10
1,1,2-TRICHLOROETHANE	MG/M ³	<0.02
TRICHLOROETHENE	MG/M ³	<0.03
TRICHLOROFLUOROMETHANE	MG/M ³	<0.02
VINYL CHLORIDE	MG/M ³	<0.05
TOTAL XYLENES	MG/M ³	<0.05
 SURROGATES:		
BROMOCHLOROMETHANE (%)		89
TRIFLUOROTOLUENE (%)		94

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

TEST	: EPA 8010/8020	AEN I.D.	: 604356
BLANK I.D.	: 041296B	MATRIX	: AIR
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 041296	DATE ANALYZED	: 04/13/96
PROJECT NAME	: SVS-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/M ³	<0.05
BROMODICHLOROMETHANE	MG/M ³	<0.02
BROMOFORM	MG/M ³	<0.05
BROMOMETHANE	MG/M ³	<0.10
CARBON TETRACHLORIDE	MG/M ³	<0.02
CHLOROBENZENE	MG/M ³	<0.05
CHLOROETHANE	MG/M ³	<0.05
CHLOROFORM	MG/M ³	<0.05
CHLOROMETHANE	MG/M ³	<0.10
DIBROMOCHLOROMETHANE	MG/M ³	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ³	<0.02
1,2-DICHLOROBENZENE	MG/M ³	<0.05
1,3-DICHLOROBENZENE	MG/M ³	<0.05
1,4-DICHLOROBENZENE	MG/M ³	<0.05
1,1-DICHLOROETHANE	MG/M ³	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ³	<0.05
1,1-DICHLOROETHENE	MG/M ³	<0.02
CIS-1,2-DICHLOROETHENE	MG/M ³	<0.02
TRANS-1,2-DICHLOROETHENE	MG/M ³	<0.10
1,2-DICHLOROPROPANE	MG/M ³	<0.02
CIS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
TRANS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
ETHYLBENZENE	MG/M ³	<0.05
METHYL-t-BUTYL ETHER	MG/M ³	<0.25
METHYLENE CHLORIDE	MG/M ³	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ³	<0.02
TETRACHLOROETHENE	MG/M ³	<0.05
TOLUENE	MG/M ³	<0.05
1,1,1-TRICHLOROETHANE	MG/M ³	<0.10
1,1,2-TRICHLOROETHANE	MG/M ³	<0.02
TRICHLOROETHENE	MG/M ³	<0.03
TRICHLOROFLUOROMETHANE	MG/M ³	<0.02
VINYL CHLORIDE	MG/M ³	<0.05
TOTAL XYLENES	MG/M ³	<0.05
 SURROGATES:		
BROMOCHLOROMETHANE (%)		99
TRIFLUOROTOLUENE (%)		100

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

TEST	: EPA 8010/8020	AEN I.D.	: 604356
BLANK I.D.	: 041596	MATRIX	: AIR
CLIENT	: SPARTON TECHNOLOGY INC.	DATE EXTRACTED	: NA
PROJECT #	: 041296	DATE ANALYZED	: 04/15/96
PROJECT NAME	: SVS-2Q96	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/M ³	<0.05
BROMODICHLOROMETHANE	MG/M ³	<0.02
BROMOFORM	MG/M ³	<0.05
BROMOMETHANE	MG/M ³	<0.10
CARBON TETRACHLORIDE	MG/M ³	<0.02
CHLOROBENZENE	MG/M ³	<0.05
CHLOROETHANE	MG/M ³	<0.05
CHLOROFORM	MG/M ³	<0.05
CHLOROMETHANE	MG/M ³	<0.10
DIBROMOCHLOROMETHANE	MG/M ³	<0.02
1,2-DIBROMOETHANE (EDB)	MG/M ³	<0.02
1,2-DICHLOROBENZENE	MG/M ³	<0.05
1,3-DICHLOROBENZENE	MG/M ³	<0.05
1,4-DICHLOROBENZENE	MG/M ³	<0.05
1,1-DICHLOROETHANE	MG/M ³	<0.03
1,2-DICHLOROETHANE (EDC)	MG/M ³	<0.05
1,1-DICHLOROETHENE	MG/M ³	<0.02
CIS-1,2-DICHLOROETHENE	MG/M ³	<0.02
TRANS-1,2-DICHLOROETHENE	MG/M ³	<0.10
1,2-DICHLOROPROPANE	MG/M ³	<0.02
CIS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
TRANS-1,3-DICHLOROPROPENE	MG/M ³	<0.02
ETHYLBENZENE	MG/M ³	<0.05
METHYL-t-BUTYL ETHER	MG/M ³	<0.25
METHYLENE CHLORIDE	MG/M ³	<0.20
1,1,2,2-TETRACHLOROETHANE	MG/M ³	<0.02
TETRACHLOROETHENE	MG/M ³	<0.05
TOLUENE	MG/M ³	<0.05
1,1,1-TRICHLOROETHANE	MG/M ³	<0.10
1,1,2-TRICHLOROETHANE	MG/M ³	<0.02
TRICHLOROETHENE	MG/M ³	<0.03
TRICHLOROFLUOROMETHANE	MG/M ³	<0.02
VINYL CHLORIDE	MG/M ³	<0.05
TOTAL XYLENES	MG/M ³	<0.05

SURROGATES:

BROMOCHLOROMETHANE (%)	106
TRIFLUOROTOLUENE (%)	104

GWB-00554-SPARTON

OGC-002032 -

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 8010/8020)
 MSMSD # : 041596 AEN I.D. : 604356
 CLIENT : SPARTON TECHNOLOGY INC. DATE EXTRACTED : NA
 PROJECT # : 041296 DATE ANALYZED : 04/15/96
 PROJECT NAME : SVS-2Q96 SAMPLE MATRIX : AIR
 REF. I.D. : 041596 UNITS : MG/M³

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.05	1.00	1.04	104	0.87	87	18
CHLOROBENZENE	<0.05	1.00	1.05	105	0.95	95	10
1,1-DICHLOROETHENE	<0.02	1.00	0.81	81	0.69	69	16
TOLUENE	<0.05	1.00	1.05	105	0.88	88	18
TRICHLOROETHENE	<0.03	1.00	1.05	105	0.94	94	11

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

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

OGC-002033

GWB-00553-SPARTON



Analytical Technologies, Inc., Albuquerque, NM
 San Diego • Phoenix • Seattle • Pasadena • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 4-12-96 PAGE 1 OF 1

PROJECT MANAGER: John M. Walker

ANALYSIS REQUEST

COMPANY: Spectra Technology Inc.
 ADDRESS: 9621 Coors Rd. NW
 Albuquerque, NM 87114
 PHONE: 505 871-5500
 FAX: 505 871-5500
 BILL TO: 11
 COMPANY: 11
 ADDRESS: 4201 Macomber Blvd S
 Albuquerque, NM 87124

SAMPLE ID DATE TIME MATRIX LAB ID

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
NW-21	003	4:08	8005	AN
NW-21	005	11	8005	AN
NW-61	003	11	1300	11

Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel			
Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			
Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)			
SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.				
Pesticides/PCB (608/8080)	Herbicides (615/8150)			
Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)			
Polynuclear Aromatics (810/8310)				
SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona			
SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			
The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion			
RCRA Metals by TCLP (1311)				

NUMBER OF CONTAINERS:

PROJECT INFORMATION

SAMPLE RECEIPT

PROJ. NO.: 04-0004
 PROJ. NAME: SVS-2002
 P.O. NO.:
 SHIPPED VIA: Delivered
 PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
 (RUSH) 24hr 48hr 72hr 1 WEEK (NORMAL) 2 WEEK

NO. CONTAINERS: 3
 CUSTOMER'S SIGNATURE: [Signature]
 RECEIVED BY: [Signature] DATE: 4-12-96
 COMPANY: Spectra
 PHONE: 505-871-5500
 RECEIVED BY: [Signature] DATE: []
 COMPANY: []
 RECEIVED BY: [Signature] DATE: []
 COMPANY: []

OGC-00234

P. 9/9

APR 23 '96 07:22AM ATI ALBUQUERQUE

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

ATI Lab: San Diego (619) 498-9141 • Phoenix (602) 498-4400 • Seattle (206) 228-8335 • Pasadena (909) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Print - OPERATOR

3WB-00552-SPARTON

Comments:
 See Photos to SVS-2002
 214-770-1549

Signature: [Signature] Time: []
 Printed Name: [] Date: []
 Company: []
 Signature: [Signature] Time: []
 Printed Name: [] Date: []
 Company: []

Signature: [Signature] Time: []
 Printed Name: [] Date: []
 Company: []