American Environmental Network, Inc.

1Q 1997 Gas Analysis
VR-1 to 5

AEN I.D. 702347

February 24, 1997

SPARTON TECHNOLOGIES
9621 COORS RD.
ALBUQUERQUE, NM 87124

Project Name VR-WELLS-1Q97
Project Number 22097

Attention: JOHN M. WAKEFIELD

On 2/20/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), 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.
General Manager

MR: mt

Enclosure

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES	AEN I.D.	: 702347
PROJECT #	: 22097	DATE RECEIVED	: 2/20/97
PROJECT NAME	: VR-WELLS-1Q97	REPORT DATE	: 2/24/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	VR-3	AIR	2/20/97
02	VR-5	AIR	2/20/97
03	VR-4	AIR	2/20/97
04	VR-2	AIR	2/20/97
05	VR-1	AIR	2/20/97

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES	AEN I.D.	: 702347
PROJECT #	: 22097	DATE RECEIVED	: 2/20/97
PROJECT NAME	: VR-WELLS-1Q97	REPORT DATE	: 2/24/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	VR-3	AIR	2/20/97
02	VR-5	AIR	2/20/97
03	VR-4	AIR	2/20/97
04	VR-2	AIR	2/20/97
05	VR-1	AIR	2/20/97

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702347
PROJECT # : 22097
PROJECT NAME : VR-WELLS-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	VR-3	AIR	2/20/97	NA	2/20/97	20
02	VR-5	AIR	2/20/97	NA	2/20/97	50
03	VR-4	AIR	2/20/97	NA	2/20/97	50

PARAMETER	DET. LIMIT	UNITS	01	02	03
BENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
BROMODICHLORMETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
BROMOFORM	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
BROMOMETHANE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
CARBON TETRACHLORIDE	0.02	**MG/M ^{3}**	**0.5**	< 1.0	< 1.0
CHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROETHANE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROFORM	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
CHLOROMETHANE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
DIBROMOCHLOROMETHANE	0.02	**MG/M ^{3}**	**0.6**	< 1.0	< 1.0
1,2-DIBROMOETHANE (EDB)	0.02	**MG/M ^{3}**	**1.1**	< 1.0	< 1.0
1,2-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,3-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,4-DICHLOROBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHANE	0.03	MG/M ^{3}	< 0.6	< 1.5	< 1.5
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHENE	0.02	**MG/M ^{3}**	**87 E**	**130 E**	**94**
cis-1,2-DICHLOROETHENE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
trans-1,2-DICHLOROETHENE	0.10	MG/M ^{3}	< 2.0	< 5.0	< 5.0
1,2-DICHLOROPROPANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
cis-1,3-DICHLOROPROPENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
trans-1,3-DICHLOROPROPENE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
ETHYLBENZENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
METHYL-t-BUTYL ETHER	0.25	MG/M ^{3}	< 5.0	< 13	< 13
METHYLENE CHLORIDE	0.20	MG/M ^{3}	< 4.0	< 10	< 10
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TETRACHLOROETHENE	0.05	**MG/M ^{3}**	**27**	**26**	**22**
TOLUENE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
1,1,1-TRICHLOROETHANE	0.10	**MG/M ^{3}**	**220 D(1000)**	**610 D(2000)**	**1600 D(2000)**
1,1,2-TRICHLOROETHANE	0.02	**MG/M ^{3}**	**0.5**	< 1.0	< 1.0
TRICHLOROETHENE	0.03	**MG/M ^{3}**	**870 D(1000)**	**2300 D(2000)**	**3800 D(2000)**
TRICHLOROFLUOROMETHANE	0.02	MG/M ^{3}	< 0.4	< 1.0	< 1.0
VINYL CHLORIDE	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TOTAL XYLENES	0.05	MG/M ^{3}	< 1.0	< 2.5	< 2.5
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ^{3}	< 4.0	< 10	< 10

SURROGATE:				
BROMOCHLOROMETHANE (%)		95	88	89
SURROGATE LIMITS	(73 - 117)			
TRIFLUOROTOLUENE (%)		93	88	89
SURROGATE LIMITS	(69 - 117)			

CHEMIST NOTES:
D(1000) = 1000X DILUTION ANALYZED ON 2/21/97, D(2000) = 2000X DILUTION ANALYZED 2/21/97
E = ESTIMATED VALUE, OVERRANGE FOR INSTRUMENTATION

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702347
PROJECT # : 22097
PROJECT NAME : VR-WELLS-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	VR-2	AIR	2/20/97	NA	2/20/97	100
05	VR-1	AIR	2/20/97	NA	2/20/97	1000

PARAMETER	DET. LIMIT	UNITS	04	05
BENZENE	0.05	MG/M ^{3}	< 5.0	< 50
BROMODICHLORMETHANE	0.02	MG/M ^{3}	< 2.0	< 20
BROMOFORM	0.05	**MG/M ^{3}**	**6.9**	< 50
BROMOMETHANE	0.10	MG/M ^{3}	< 10	< 100
CARBON TETRACHLORIDE	0.02	MG/M ^{3}	< 2.0	< 20
CHLOROBENZENE	0.05	**MG/M ^{3}**	**8.3**	< 50
CHLOROETHANE	0.05	MG/M ^{3}	< 5.0	< 50
CHLOROFORM	0.05	MG/M ^{3}	< 5.0	< 50
CHLOROMETHANE	0.10	MG/M ^{3}	< 10	< 100
DIBROMOCHLOROMETHANE	0.02	**MG/M ^{3}**	**2.9**	**25**
1,2-DIBROMOETHANE (EDB)	0.02	**MG/M ^{3}**	**5.5**	**54**
1,2-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 50
1,3-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 50
1,4-DICHLOROBENZENE	0.05	MG/M ^{3}	< 5.0	< 50
1,1-DICHLOROETHANE	0.03	MG/M ^{3}	< 3.0	< 30
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ^{3}	< 5.0	< 50
1,1-DICHLOROETHENE	0.02	**MG/M ^{3}**	**150 D(2000)**	**250**
cis-1,2-DICHLOROETHENE	0.02	MG/M ^{3}	< 2.0	< 20
trans-1,2-DICHLOROETHENE	0.10	MG/M ^{3}	< 10	< 100
1,2-DICHLOROPROPANE	0.02	MG/M ^{3}	< 2.0	< 20
cis-1,3-DICHLOROPROPENE	0.05	MG/M ^{3}	< 5.0	< 50
trans-1,3-DICHLOROPROPENE	0.02	MG/M ^{3}	< 2.0	< 20
ETHYLBENZENE	0.05	**MG/M ^{3}**	< 5.0	**350**
METHYL-t-BUTYL ETHER	0.25	MG/M ^{3}	< 25	< 250
METHYLENE CHLORIDE	0.20	MG/M ^{3}	< 20	< 200
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ^{3}	< 5.0	< 50
TETRACHLOROETHENE	0.05	**MG/M ^{3}**	**120**	**300**
TOLUENE	0.05	MG/M ^{3}	< 5.0	**7500**
1,1,1-TRICHLOROETHANE	0.10	**MG/M ^{3}**	**1200 D(2000)**	**1200 D(2000)**
1,1,2-TRICHLOROETHANE	0.02	**MG/M ^{3}**	**2.2**	**26**
TRICHLOROETHENE	0.03	**MG/M ^{3}**	**3600 D(2000)**	**7400 D(2000) E**
TRICHLOROFLUOROMETHANE	0.02	MG/M ^{3}	< 2.0	< 20
VINYL CHLORIDE	0.05	MG/M ^{3}	< 5.0	< 50
TOTAL XYLENES	0.05	**MG/M ^{3}**	< 5.0	**1100**
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ^{3}	< 4.0	< 10
SURROGATE:				
BROMOCHLOROMETHANE (%)			90	94
SURROGATE LIMITS	(73 - 117)			
TRIFLUOROTOLUENE (%)			89	92
SURROGATE LIMITS	(69 - 117)			

CHEMIST NOTES:
D(2000) = 2000X DILUTION ANALYZED ON 2/21/97 E = ESTIMATED VALUE, OVERRANGE FOR INSTRUMENTATION

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
BLANK I.D.	: 022097	AEN I.D.	: 702347
CLIENT	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
PROJECT #	: 22097	DATE ANALYZED	: 2/20/97
PROJECT NAME	: VR-WELLS-1Q97	SAMPLE MATRIX	: AIR

PARAMETER	UNITS	
BENZENE	MG/M ^{3}	<0.05
BROMODICHLORMETHANE	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}	<0.05
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

SURROGATE:		
BROMOCHLOROMETHANE (%)		88
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		87
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
BLANK I.D.	: 022197	AEN I.D.	: 702347
CLIENT	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: N/A
PROJECT #	: 22097	DATE ANALYZED	: 2/21/97
PROJECT NAME	: VR-WELLS-1Q97	SAMPLE MATRIX	: AIR

PARAMETER	UNITS	
BENZENE	MG/M ^{3}	<0.05
BROMODICHLORMETHANE	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}	<0.05
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

SURROGATE:

BROMOCHLOROMETHANE (%)		96
SURROGATE LIMITS	(73 - 117)	
TRIFLUOROTOLUENE (%)		88
SURROGATE LIMITS	(69 - 117)	

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)		
MSMSD #	: 702332-02	AEN I.D.	: 702347
CLIENT	: SPARTON TECHNOLOGIES	DATE EXRACTED	: N/A
PROJECT #	: 22097	DATE ANALYZED	: 2/20/97
PROJECT NAME	: VR-WELLS-1Q97	SAMPLE MATRIX	: AIR
		UNITS	: MG/M ^{3}

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.05	1.00	0.94	94	0.93	93	1	(82 -128)	20
TOLUENE	<0.05	1.00	0.93	93	0.92	92	1	(87 -128)	20
1,1-DICHLOROETHENE	<0.02	1.00	1.12	112	1.06	106	6	(40 - 120)	20
TRICHLOROETHENE	<0.03	1.00	1.21	121	1.19	119	2	(89 - 127)	20
CHLOROBENZENE	<0.05	1.00	0.95	95	0.96	96	1	(87 - 124)	20

CHEMIST NOTES:
N/A

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

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

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

CHAIN OF CUSTODY

DATE: 2-20-97 PAGE: 1 OF 1

ATI LAB I.D. 702347

SHADED AREAS ARE FOR LAB USE ONLY!

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield
COMPANY: Spurton Technology Inc
ADDRESS: 9671 Coors Rd. NW Alb NM 87124
PHONE: 505-892-5300
FAX: 5515
BILL TO: "
COMPANY: "
ADDRESS: 4901 Rockaway Blvd SE Rio Rancho NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)	M 8010 / 8020 on Gas	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry	PID readings 100 ppm Isobutylene = 52 ppm TCE	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	NUMBER OF CONTAINERS
VR-3	2-20-97	1130	Air	-01									X									56.6					1
VR-5	"	1200	"	-02									X									85.6					1
VR-4	"	1235	"	-03									X									82.5					1
VR-2	"	1237	"	-04									X									158.9					1
VR-1	"	1411	"	-05									X									1576.0			Pegged Out		1

PROJECT INFORMATION	
PROJ. NO.: 022097	
PROJ. NAME: VR-Wells-1Q97	
P.O. NO.: Pending	
SHIPPED VIA: Delivered	
SAMPLE RECEIPT	
NO. CONTAINERS	5
CUSTODY SEALS	Y/N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: PID readings above

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: John M. Wakefield Time: 1535	Signature: Time:
Printed Name: John M. Wakefield Date: 2-20-97	Printed Name: Date:
Company: STI	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2**
Signature: Time:	Signature: Francine Toriuo Time: 3:35
Printed Name: Date:	Printed Name: Francine Toriuo Date: 2/20/
Company:	Analytical Technologies of New Mexico

OGC-002053

STATE OF NEW MEXICO | DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700315
REQUEST ID No.: 189520
RECEIVED AT SLD: 2/20/97
SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 2/20/97 TIME: 1409 BY: Pin
SAMPLING LOCATION: Sparton Vapor Well VR-1
SAMPLE MATRIX: Gas REPORTING UNITS: ug/L

Remarks: Tedlar Gas Bag Sample
Evidenciary seals were broken by Patrick Basile on 2/20/97.

EPA METHOD 8021 Modified Volatiles by Purge & Trap Gas Chromatography [PID/ELCD]

DATE EXTRACTED: N/A
DATE ANALYZED: 2/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (ml): 0.01

ANALYSIS No.: OR- 9700315
SLD BATCH No.: 062
DILUTION FACTOR: 100.00
REQUEST ID No.: 189520

Barometric Pressure During Analayis in mm of Mercury: 634

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		ug/L$_{air}$	ppm V/V		ug/L$_{air}$	ppm V/V
71-43-2	Benzene			U	500.0	184.62
108-86-1	Bromobenzene			U	500.0	91.72
74-97-5	Bromochloromethane			U	500.0	111.63
75-27-4	Bromodichloromethane*			U	500.0	87.81
75-25-2	Bromoform*			U	500.0	56.92
24-83-9	Bromomethane			U	500.0	151.58
78-93-3	2-Butanone (MEK)			U	5000.0	2000.06
104-51-8	n-Butylbenzene			U	500.0	107.47
135-98-8	sec-Butylbenzene			U	500.0	107.47
98-06-6	tert-Butylbenzene			U	500.0	107.47
1634-04-4	tert-Butyl methyl ether (MTBE)			U	5000.0	1636.41
56-23-5	Carbon tetrachloride			U	500.0	93.51
108-90-7	Chlorobenzene (monochlorobenzene)			U	500.0	127.44
75-00-3	Chloroethane			U	500.0	221.55
67-66-3	Chloroform*			U	500.0	121.01
74-87-3	Chloromethane			U	500.0	288.01
95-49-8	2-Chlorotoluene			U	500.0	114.29
106-43-4	4-Chlorotoluene			U	500.0	114.29
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	500.0	60.76
124-48-1	Dibromochloromethane*			U	500.0	69.23
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	500.0	76.60
74-95-3	Dibromomethane			U	500.0	153.20
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	500.0	97.96
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	500.0	97.96
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	500.0	97.96
75-71-8	Dichlorodifluoromethane			U	500.0	119.01
75-34-3	1,1-Dichloroethane			U	500.0	145.46
107-06-2	1,2-Dichloroethane			U	500.0	145.46
75-35-4	1,1-Dichloroethene	380	110	J	500.0	148.46
156-59-2	cis-1,2-Dichloroethene			U	500.0	148.46
156-60-5	trans-1,2-Dichloroethene			U	500.0	148.46
78-87-5	1,2-Dichloropropane			U	500.0	127.44
142-28-9	1,3-Dichloropropane			U	500.0	127.44
590-20-7	2,2-Dichloropropane			U	500.0	127.44
563-58-6	1,1-Dichloropropene			U	500.0	129.73
1006-01-5	cis-1,3-Dichloropropene			U	500.0	129.73
1006-02-6	trans-1,3-Dichloropropene			U	500.0	129.73
100-41-4	Ethylbenzene	530	140		500.0	135.85
87-68-3	Hexachlorobutadiene			U	500.0	55.17
98-82-8	Isopropylbenzene			U	500.0	120.00
99-87-6	4-Isopropyltoluene			U	500.0	106.67

MAR 1997 RECEIVED

75-09-2	Methylene chloride (Dichloromethane)			U	1000.0	338.83
91-20-3	Naphthalene			U	500.0	91.14
103-65-1	Propylbenzene			U	500.0	120.00
100-42-5	Styrene			U	500.0	138.47
630-20-6	1,1,1,2-Tetrachloroethane			U	500.0	85.72
79-34-5	1,1,2,2-Tetrachloroethane			U	500.0	85.72
127-18-4	Tetrachloroethene	380	65	J	500.0	86.75
109-99-9	Tetrahydrofuran (THF)			U	5000.0	2000.06
108-88-3	Toluene	8300	2600		500.0	156.53
87-61-5	1,2,3-Trichlorobenzene			U	500.0	79.56
120-82-1	1,2,4-Trichlorobenzene			U	500.0	79.56
71-55-6	1,1,1-Trichloroethane	5,200	1100		500.0	108.27
79-00-5	1,1,2-Trichloroethane			U	500.0	108.27
79-01-6	Trichloroethene	25000	5500		500.0	109.93
75-69-4	Trichlorofluoromethane			U	500.0	104.35
96-18-4	1,2,3-Trichloropropane			U	500.0	97.96
95-63-6	1,2,4-Trimethylbenzene			U	500.0	120.00
108-67-8	1,3,5-Trimethylbenzene			U	500.0	120.00
75-01-4	Vinyl chloride			U	500.0	232.27
95-47-6	o-Xylene*	545	148		500.0	135.85
N/A	p- & m-Xylene*	1400	380		500.0	135.85
N/A	*Total Xylenes*	1900	530		500.0	135.85
N/A	*Total Trihalomethanes*		N/A	U	500.0	

Laboratory Remarks: **Results reported were confirmed by GC/MS analysis.**
Recovery of TCE gas calibration standard was 92% for this batch.

LABORATORY BATCH QUALITY CONTROL SUMMARY			
SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION (uG/L_{air})	% RECOVERY
	2-Bromochlorobenzene [Photo_Ionization_Detector]	12000	96.0%
	2-Bromochlorobenzene [Electro_Lytic-Conductivety_Detector]	11000	88.0%
LABORATORY FORTIFIED BLANK RECOVERIES	The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):		
	COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
	n-Butylbenzene	10	81%
	Naphthalene	10	79%
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):		
	COMPOUND	CONCENTRATION (ug/L)	
	No Exceptions		

ANALYST: **PATRICK BASILE** QC APPROVED BY: **Ken Sherrell**

DEFINITIONS

**	Concentration Exceeds EPA's allowable Maximum Contamination Level
CAS#	Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC.	Concentration (ug/L) of analyte actually detected in the sample
QUAL	Qualifier of analytical results as follows:
	B Analyte was detected in laboratory blank
	J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
	U No analyte was detected above the Sample Detection Limit.
SDL	Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
ug/L	Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

1 Request ID No.

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

2 SLD's Accession No.

Request ID No. 189520-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For SLD Use: OR-____ 0R9700315

3 **User Code:** 553211

Date & Time of Receipt at SLD: 97 FEB 20 PM 2:58

4 **Sample Priority:** 3 *If 1 or 2 call SLD*

5 **Submitter Code:** 4118 **WSS Code:** ___-___ User's Site ID: _____

6 *Sample Temp. Receipt @ SLD:* ____°C

7 **Facility or WSS Name:** SPARTON

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10*

8 County: Bernalillo

9 City: Albuquerque

10 State: *or CHANGE* NM *TO* ___

11 **Sampling Location:** SPARTON VAPOR WELL VR-1

12 **Sample Collection:** On: 02 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)

At: 14 : 09 (Time: 24:00 Hour Clock)

13 **Sample Info. Contact:** Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here: _____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to ➻

Name: _____

Address: _____

City: _____ *State:* _____ *Zip:* _____

15 **Field Data:** *(When appropriate)*

Temperature: ____°C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*

This well pegged The PID

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: _____

18 **Preservation:** *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: _____

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:

■-(754) Aromatic & Halogenated Volatiles (EPA 8021)
☐-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:

☐-(___) _____
☐-(___) _____

Remarks: _____

Semivolatile Screens:

☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002119

Organic Section Sample Collection Guidelines

(SLD-#) & Test Description	Approx. No. of Analytes Reported	Maximum Holding Time (days)	Sample Container	General Preservation Footnotes	Preservation Comments for Chlorinated Waters
VOLATILE ORGANIC COMPOUNDS:					
(754) Aromatic and Halogenated Volatiles	63	14	40 mL Glass Vial in duplicate	A, B, E	
(774) SDWA Volatile Organic Compounds, VOC-1's	63	14	40 mL Glass Vial in duplicate	A, B, E	Sample should be Unchlorinated
(766) SDWA Trihalomethanes	4	14	40 mL Glass Vial in duplicate	A, C, E	
(765) Volatile Organic Compounds, VOC's, by GC/MS	63	14	40 mL Glass Vial in duplicate	A, B, E	
SEMIVOLATILE ORGANIC COMPOUNDS:					
(758) Acid Herbicides	13	14	1 L Amber Glass	A, B, D	50 mG Sodium Sulfite per 1 L Bottle
(755) Base/Neutral Semivolatiles Organic Compounds by GC/MS	52	7	1 L Amber Glass in duplicate	A, B	
(756) Base/Neutral /Acid Semivolatile Organic Compounds by GC/MS	92	7	1 L Amber Glass in duplicate	A, B	
(772) Carbamate Pesticides	10	28	40 mL Glass Vial	A, C, D	3 mG Sodium Thiosulfate per 40 mL Vial
(783) Diquat	1	7	1 L Amber Plastic	A, C, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(775) EDB, DBCP & TCP	3	14	40 mL Glass Vial in duplicate	A, D	Sample should be Unchlorinated
(782) Endothall	1	7	40 mL Glass Vial in duplicate	A, D	4 mG Sodium Thiosulfate per 40 mL Vial
(781) Glyphosate	1	14	40 mL Amber Glass Vial	A, D	3 mG Sodium Thiosulfate per 40 mL Vial
(751) Hydrocarbon Fuel Screen (TPH and Hydrocarbon Range ID)	N/A	14	1 L Amber Glass in duplicate	A, B	
(760) Organochlorine Pesticides and PCB's	39	7	1 L Amber Glass in duplicate	A, B, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(788) Semivolatile Organic Compounds by GC/MS	72	14	1 L Amber Glass in duplicate	A, B, D	50 mG/L Sodium Sulfite per 1 L Bottle

Preservation Footnotes:

A = Cool samples to 4°C.
B = Reduce pH to 2 with Hydrochloric Acid, HCl.
C = As supplied by SLD, sample containers contain perservatives (check container label); Do **NOT** Rinse Container.
D = Chlorinated systems should request dechlorinating agents for SLD-#'s 775, 768, 772, 781, 782, 783 and 788. Add dechlorinating agent after filling bottle half full, then finish filling bottle. Do **NOT** add acid.
E = Fill bottle completely; i.e. **No** Air Bubble.

* * * * * Please Use Chain-Of-Custody Form Only When Requirements Mandate * * * * *

Single Sample **Chain-Of-Custody Form** *Single Sample*

We, the undersigned, certify that on 2/20/97 (Date) at 15:00 (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:* 189520" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☒ present & intact, ☐ present & damaged.

Released by: [signature] (Signature) & Received by: [signature] (Signature)

Additional Transfer, If Applicable:

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:*_____" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☐ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

STATE OF NEW MEXICO | DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700316
REQUEST ID No.: 189521
RECEIVED AT SLD: 2/20/97
SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 2/20/97 TIME: 1323 BY: Pin
SAMPLING LOCATION: Sparton Vapor Well VR-2
SAMPLE MATRIX: Gas REPORTING UNITS: ug/L

Remarks: Tedlar Gas Bag Sample
Evidenciary seals were broken by Patrick Basile on 2/20/97.

EPA METHOD 8021 Modified Volatiles by Purge & Trap Gas Chromatography [PID/ELCD]

DATE EXTRACTED: N/A
DATE ANALYZED: 2/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (ml): 0.015

ANALYSIS No.: OR- 9700316
SLD BATCH No.: 062
DILUTION FACTOR: 66.67
REQUEST ID No.: 189521

Barometric Pressure During Analayis in mm of Mercury: 634

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		ug/L$_{air}$	ppm V/V		ug/L$_{air}$	ppm V/V
71-43-2	Benzene			U	333.3	123.08
108-86-1	Bromobenzene			U	333.3	61.15
74-97-5	Bromochloromethane			U	333.3	74.42
75-27-4	Bromodichloromethane*			U	333.3	58.54
75-25-2	Bromoform*			U	333.3	37.95
24-83-9	Bromomethane			U	333.3	101.06
78-93-3	2-Butanone (MEK)			U	3333.3	1333.37
104-51-8	n-Butylbenzene			U	333.3	71.64
135-98-8	sec-Butylbenzene			U	333.3	71.64
98-06-6	tert-Butylbenzene			U	333.3	71.64
1634-04-4	tert-Butyl methyl ether (MTBE)			U	3333.3	1090.94
56-23-5	Carbon tetrachloride			U	333.3	62.34
108-90-7	Chlorobenzene (monochlorobenzene)			U	333.3	84.96
75-00-3	Chloroethane			U	333.3	147.70
67-66-3	Chloroform*			U	333.3	80.67
74-87-3	Chloromethane			U	333.3	192.01
95-49-8	2-Chlorotoluene			U	333.3	76.19
106-43-4	4-Chlorotoluene			U	333.3	76.19
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	333.3	40.51
124-48-1	Dibromochloromethane*			U	333.3	46.16
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	333.3	51.07
74-95-3	Dibromomethane			U	333.3	102.13
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	333.3	65.31
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	333.3	65.31
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	333.3	65.31
75-71-8	Dichlorodifluoromethane			U	333.3	79.34
75-34-3	1,1-Dichloroethane			U	333.3	96.97
107-06-2	1,2-Dichloroethane			U	333.3	96.97
75-35-4	1,1-Dichloroethene	320	94	J	333.3	98.97
156-59-2	cis-1,2-Dichloroethene			U	333.3	98.97
156-60-5	trans-1,2-Dichloroethene			U	333.3	98.97
78-87-5	1,2-Dichloropropane			U	333.3	84.96
142-28-9	1,3-Dichloropropane			U	333.3	84.96
590-20-7	2,2-Dichloropropane			U	333.3	84.96
563-58-6	1,1-Dichloropropene			U	333.3	86.49
1006-01-5	cis-1,3-Dichloropropene			U	333.3	86.49
1006-02-6	trans-1,3-Dichloropropene			U	333.3	86.49
100-41-4	Ethylbenzene			U	333.3	90.57
87-68-3	Hexachlorobutadiene			U	333.3	36.78
98-82-8	Isopropylbenzene			U	333.3	80.00
99-87-6	4-Isopropyltoluene			U	333.3	71.11

MAR 1997 RECEIVED

75-09-2	Methylene chloride (Dichloromethane)			U	666.7	225.89
91-20-3	Naphthalene			U	333.3	60.76
103-65-1	Propylbenzene			U	333.3	80.00
100-42-5	Styrene			U	333.3	92.31
630-20-6	1,1,1,2-Tetrachloroethane			U	333.3	57.14
79-34-5	1,1,2,2-Tetrachloroethane			U	333.3	57.14
127-18-4	Tetrachloroethene			U	333.3	57.83
109-99-9	Tetrahydrofuran (THF)			U	3333.3	1333.37
108-88-3	Toluene	360	110		333.3	104.35
87-61-5	1,2,3-Trichlorobenzene			U	333.3	53.04
120-82-1	1,2,4-Trichlorobenzene			U	333.3	53.04
71-55-6	1,1,1-Trichloroethane	2300	490		333.3	72.18
79-00-5	1,1,2-Trichloroethane			U	333.3	72.18
79-01-6	Trichloroethene	6600	1400		333.3	73.28
75-69-4	Trichlorofluoromethane			U	333.3	69.57
96-18-4	1,2,3-Trichloropropane			U	333.3	65.31
95-63-6	1,2,4-Trimethylbenzene			U	333.3	80.00
108-67-8	1,3,5-Trimethylbenzene			U	333.3	80.00
75-01-4	Vinyl chloride			U	333.3	154.84
95-47-6	o-Xylene#			U	333.3	90.57
N/A	p- & m-Xylene#	200	54	J	333.3	90.57
N/A	#Total Xylenes#			U	333.3	90.57
N/A	*Total Trihalomethanes*		N/A	U	333.3	

Laboratory Remarks: **Recovery of TCE Gas calibration standard was 92% in this batch.**

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY
	2-Bromochlorobenzene [Photo_Ionization_Detector]	**8143**	**97.7%**
	2-Bromochlorobenzene [Electro_Lytic-Conductivety_Detector]	**7597**	**91.2%**

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
n-Butylbenzene	10	**81%**
Naphthalene	10	**79%**

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)
No Exceptions	

ANALYST: **PATRICK BASILE** QC APPROVED BY: **KEN SHERRELL**

DEFINITIONS

**	Concentration Exceeds EPA's allowable Maximum Contamination Level
CAS#	Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
CONC.	Concentration (ug/L) of analyte actually detected in the sample
QUAL	Qualifier of analytical results as follows:
	B Analyte was detected in laboratory blank
	J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
	U No analyte was detected above the Sample Detection Limit.
SDL	Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
ug/L	Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

Request ID No. **ORGANIC CHEMISTRY ANALYTICAL REQUEST** SLD's Accession No.

Request ID No. 189521-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

SLD OR9700316

3 User Code: 553211	Date & Time of Receipt at SLD: 97 FEB 20 PM 2:58	4 Sample Priority: 3 — If 1 or 2 call SLD
5 Submitter Code:	WSS Code: -	User's Site ID:
		6 Sample Temp. Receipt @ SLD: °C
7 Facility or WSS Name: SPIRITON		
Facility/WSS Location: If No WSS Code Complete 8, 9 & 10	8 County: Bernalillo	9 City: Albuquerque
		10 State: or CHANGE NM TO
11 Sampling Location: SPIRITON VAPOR WELL VR-2		
12 Sample Collection: On: 02 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name)		
At: 13 : 23 (Time: 24:00 Hour Clock)	Rob (First Name)	
13 Sample Info. Contact: Ph: [505] - 827 - 0178	If not collector, per box 12, Please print name here:	

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client

☐ Send an additional Report to ➡

Name:

Address:

City: *State:* *Zip:*

15 **Field Data:** *(When appropriate)*

Temperature: °C; pH:

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: mG/L

Sulfate: mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*
should be Fairly high in TCE

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid:

18 **Preservation:** *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other:

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:
■-(754) Aromatic & Halogenated Volatiles (EPA 8021)
☐-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:
☐-(___)
☐-(___)

Remarks:

Semivolatile Screens:
☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002123

Organic Section Sample Collection Guidelines

(SLD-#) & Test Description	Approx. No. of Analytes Reported	Maximum Holding Time (days)	Sample Container	General Preservation Footnotes	Preservation Comments for Chlorinated Waters
VOLATILE ORGANIC COMPOUNDS:					
(754) Aromatic and Halogenated Volatiles	63	14	40 mL Glass Vial in duplicate	A, B, E	
(774) SDWA Volatile Organic Compounds, VOC-1's	63	14	40 mL Glass Vial in duplicate	A, B, E	Sample should be Unchlorinated
(766) SDWA Trihalomethanes	4	14	40 mL Glass Vial in duplicate	A, C, E	
(765) Volatile Organic Compounds, VOC's, by GC/MS	63	14	40 mL Glass Vial in duplicate	A, B, E	
SEMIVOLATILE ORGANIC COMPOUNDS:					
(758) Acid Herbicides	13	14	1 L Amber Glass	A, B, D	50 mG Sodium Sulfite per 1 L Bottle
(755) Base/Neutral Semivolatiles Organic Compounds by GC/MS	52	7	1 L Amber Glass in duplicate	A, B	
(756) Base/Neutral /Acid Semivolatile Organic Compounds by GC/MS	92	7	1 L Amber Glass in duplicate	A, B	
(772) Carbamate Pesticides	10	28	40 mL Glass Vial	A, C, D	3 mG Sodium Thiosulfate per 40 mL Vial
(783) Diquat	1	7	1 L Amber Plastic	A, C, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(775) EDB, DBCP & TCP	3	14	40 mL Glass Vial in duplicate	A, D	Sample should be Unchlorinated
(782) Endothall	1	7	40 mL Glass Vial in duplicate	A, D	4 mG Sodium Thiosulfate per 40 mL Vial
(781) Glyphosate	1	14	40 mL Amber Glass Vial	A, D	3 mG Sodium Thiosulfate per 40 mL Vial
(751) Hydrocarbon Fuel Screen (TPH and Hydrocarbon Range ID)	N/A	14	1 L Amber Glass in duplicate	A, B	
(760) Organochlorine Pesticides and PCB's	39	7	1 L Amber Glass in duplicate	A, B, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(788) Semivolatile Organic Compounds by GC/MS	72	14	1 L Amber Glass in duplicate	A, B, D	50 mG/L Sodium Sulfite per 1 L Bottle

Preservation Footnotes:

A = Cool samples to 4°C.
B = Reduce pH to 2 with Hydrochloric Acid, HCl.
C = As supplied by SLD, sample containers contain perservatives (check container label); Do **NOT** Rinse Container.
D = Chlorinated systems should request dechlorinating agents for SLD-#'s 775, 768, 772, 781, 782, 783 and 788. Add dechlorinating agent after filling bottle half full, then finish filling bottle. Do **NOT** add acid.
E = Fill bottle completely; i.e. **No** Air Bubble.

***** Please Use Chain-Of-Custody Form Only When Requirements Mandate *****

Single Sample **Chain-Of-Custody Form** *Single Sample*

We, the undersigned, certify that on 2/20/97 (Date) at 15:00 (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:* 189521" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☒ present & intact, ☐ present & damaged.

Released by: [signature] (Signature) & Received by: [signature] (Signature)

Additional Transfer, If Applicable:

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:*_____" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☐ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

OGC-002124

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505] 841-2500
ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700317
REQUEST ID No.: 189522
RECEIVED AT SLD: 2/20/97
SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 2/20/97 TIME: 1125 BY: Pin
SAMPLING LOCATION: Sparton Vapor Well VR-3
SAMPLE MATRIX: Gas REPORTING UNITS: ug/L

Remarks: Tedlar Gas Bag Sample
Evidenciary seals were broken by Patrick Basile on 2/20/97.

EPA METHOD 8021 Modified Volatiles by Purge & Trap Gas Chromatography [PID/ELCD]

DATE EXTRACTED: N/A
DATE ANALYZED: 2/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (ml): 0.025

ANALYSIS No.: OR- 9700317
SLD BATCH No.: 062
DILUTION FACTOR: 40.00
REQUEST ID No.: 189522

Barometric Pressure During Analayis in mm of Mercury: 634

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		ug/L$_{air}$	ppm V/V		ug/L$_{air}$	ppm V/V
71-43-2	Benzene			U	200.0	73.85
108-86-1	Bromobenzene			U	200.0	36.69
74-97-5	Bromochloromethane			U	200.0	44.65
75-27-4	Bromodichloromethane*			U	200.0	35.12
75-25-2	Bromoform*			U	200.0	22.77
24-83-9	Bromomethane			U	200.0	60.63
78-93-3	2-Butanone (MEK)			U	2000.0	800.02
104-51-8	n-Butylbenzene			U	200.0	42.99
135-98-8	sec-Butylbenzene			U	200.0	42.99
98-06-6	tert-Butylbenzene			U	200.0	42.99
1634-04-4	tert-Butyl methyl ether (MTBE)			U	2000.0	654.57
56-23-5	Carbon tetrachloride			U	200.0	37.40
108-90-7	Chlorobenzene (monochlorobenzene)			U	200.0	50.98
75-00-3	Chloroethane			U	200.0	88.62
67-66-3	Chloroform*			U	200.0	48.40
74-87-3	Chloromethane			U	200.0	115.20
95-49-8	2-Chlorotoluene			U	200.0	45.72
106-43-4	4-Chlorotoluene			U	200.0	45.72
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	200.0	24.30
124-48-1	Dibromochloromethane*			U	200.0	27.69
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	200.0	30.64
74-95-3	Dibromomethane			U	200.0	61.28
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	200.0	39.18
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	200.0	39.18
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	200.0	39.18
75-71-8	Dichlorodifluoromethane			U	200.0	47.60
75-34-3	1,1-Dichloroethane			U	200.0	58.18
107-06-2	1,2-Dichloroethane			U	200.0	58.18
75-35-4	1,1-Dichloroethene	110	33.0	J	200.0	59.38
156-59-2	cis-1,2-Dichloroethene			U	200.0	59.38
156-60-5	trans-1,2-Dichloroethene			U	200.0	59.38
78-87-5	1,2-Dichloropropane			U	200.0	50.98
142-28-9	1,3-Dichloropropane			U	200.0	50.98
590-20-7	2,2-Dichloropropane			U	200.0	50.98
563-58-6	1,1-Dichloropropene			U	200.0	51.89
1006-01-5	cis-1,3-Dichloropropene			U	200.0	51.89
1006-02-6	trans-1,3-Dichloropropene			U	200.0	51.89
100-41-4	Ethylbenzene			U	200.0	54.34
87-68-3	Hexachlorobutadiene			U	200.0	22.07
98-82-8	Isopropylbenzene			U	200.0	48.00
99-87-6	4-Isopropyltoluene			U	200.0	42.67

MAR 1997 RECEIVED

75-09-2	Methylene chloride (Dichloromethane)			U	400.0	-135.53
91-20-3	Naphthalene			U	200.0	36.46
103-65-1	Propylbenzene			U	200.0	48.00
100-42-5	Styrene			U	200.0	55.39
630-20-6	1,1,1,2-Tetrachloroethane			U	200.0	34.29
79-34-5	1,1,2,2-Tetrachloroethane			U	200.0	34.29
127-18-4	Tetrachloroethene			U	200.0	34.70
109-99-9	Tetrahydrofuran (THF)			U	2000.0	800.02
108-88-3	Toluene			U	200.0	62.61
87-61-5	1,2,3-Trichlorobenzene			U	200.0	31.82
120-82-1	1,2,4-Trichlorobenzene			U	200.0	31.82
71-55-6	1,1,1-Trichloroethane	850	180		200.0	43.31
79-00-5	1,1,2-Trichloroethane			U	200.0	43.31
79-01-6	Trichloroethene	2000	430		200.0	43.97
75-69-4	Trichlorofluoromethane			U	200.0	41.74
96-18-4	1,2,3-Trichloropropane			U	200.0	39.18
95-63-6	1,2,4-Trimethylbenzene			U	200.0	48.00
108-67-8	1,3,5-Trimethylbenzene			U	200.0	48.00
75-01-4	Vinyl chloride			U	200.0	92.91
95-47-6	o-Xylene*			U	200.0	54.34
N/A	p- & m-Xylene*			U	200.0	54.34
N/A	*Total Xylenes*			U	200.0	54.34
N/A	*Total Trihalomethanes*		N/A	U	200.0	

Laboratory Remarks: Recovery of TCE Gas calibration standard was 92% in this batch.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L_{air})	% RECOVERY
SURROGATE RECOVERIES:	2-Bromochlorobenzene [Photo_Ionization_Detector]	5140	102.8%
	2-Bromochlorobenzene [Electro_Lytic-Conductivety_Detector]	4704	94.1%

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
n-Butylbenzene	10	81%
Naphthalene	10	79%

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)
No Exceptions	

ANALYST: **PATRICK BASILE** QC APPROVED BY: **KEN SHERRELL**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

Request ID No.

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SLD's Accession No.

Request ID No. 189522-B

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For SLD OR- 0R9700317

3 **User Code:** 553211

Date & Time of Receipt at SLD: 97 FEB 20 PM 2:58

4 **Sample Priority:** 3 *If 1 or 2 call SLD*

5 **Submitter Code:** | | | | | **WSS Code:** | | | - | | | **User's Site ID:** | | | | | | | |

6 *Sample Temp. Receipt @ SLD:* _____ °C

7 **Facility or WSS Name:** SIPARTION

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10*

8 County: Bernalillo

9 City: Albuquerque

10 State: *or CHANGE* NM *TO* | | |

11 **Sampling Location:** SIPARTION VAPOR WELL VR-3

12 **Sample Collection:** On: 02 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)

At: 11 : 25 (Time: 24:00 Hour Clock)

13 **Sample Info. Contact:** Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here: _____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for:
☐ Submitter
☐ WSS / Client

☐ Send an additional Report to ➡

Name: _____
Address: _____
City: _____ *State:* _____ *Zip:* _____

15 **Field Data:** *(When appropriate)*

Temperature: _____ °C; pH: _____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: _____ mG/L

Sulfate: _____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*

Should be high in TCE

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: _____

18 **Preservation:** *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: _____

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles _____ Vials _____.

Volatile Screens:
■-(754) Aromatic & Halogenated Volatiles (EPA 8021)
☐-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:
☐-(___) _____
☐-(___) _____

Remarks: _____

Semivolatile Screens:
☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002127

Please RETAIN A COPY of your completed form for your records

Organic Section Sample Collection Guidelines

(SLD-#) & Test Description	Approx. No. of Analytes Reported	Maximum Holding Time (days)	Sample Container	General Preservation Footnotes	Preservation Comments for Chlorinated Waters
VOLATILE ORGANIC COMPOUNDS:					
(754) Aromatic and Halogenated Volatiles	63	14	40 mL Glass Vial in duplicate	A, B, E	
(774) SDWA Volatile Organic Compounds, VOC-1's	63	14	40 mL Glass Vial in duplicate	A, B, E	Sample should be Unchlorinated
(766) SDWA Trihalomethanes	4	14	40 mL Glass Vial in duplicate	A, C, E	
(765) Volatile Organic Compounds, VOC's, by GC/MS	63	14	40 mL Glass Vial in duplicate	A, B, E	
SEMIVOLATILE ORGANIC COMPOUNDS:					
(758) Acid Herbicides	13	14	1 L Amber Glass	A, B, D	50 mG Sodium Sulfite per 1 L Bottle
(755) Base/Neutral Semivolatiles Organic Compounds by GC/MS	52	7	1 L Amber Glass in duplicate	A, B	
(756) Base/Neutral /Acid Semivolatile Organic Compounds by GC/MS	92	7	1 L Amber Glass in duplicate	A, B	
(772) Carbamate Pesticides	10	28	40 mL Glass Vial	A, C, D	3 mG Sodium Thiosulfate per 40 mL Vial
(783) Diquat	1	7	1 L Amber Plastic	A, C, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(775) EDB, DBCP & TCP	3	14	40 mL Glass Vial in duplicate	A, D	Sample should be Unchlorinated
(782) Endothall	1	7	40 mL Glass Vial in duplicate	A, D	4 mG Sodium Thiosulfate per 40 mL Vial
(781) Glyphosate	1	14	40 mL Amber Glass Vial	A, D	3 mG Sodium Thiosulfate per 40 mL Vial
(751) Hydrocarbon Fuel Screen (TPH and Hydrocarbon Range ID)	N/A	14	1 L Amber Glass in duplicate	A, B	
(760) Organochlorine Pesticides and PCB's	39	7	1 L Amber Glass in duplicate	A, B, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(788) Semivolatile Organic Compounds by GC/MS	72	14	1 L Amber Glass in duplicate	A, B, D	50 mG/L Sodium Sulfite per 1 L Bottle

Preservation Footnotes:

A = Cool samples to 4°C.
B = Reduce pH to 2 with Hydrochloric Acid, HCl.
C = As supplied by SLD, sample containers contain perservatives (check container label); Do **NOT** Rinse Container.
D = Chlorinated systems should request dechlorinating agents for SLD-#'s 775, 768, 772, 781, 782, 783 and 788. Add dechlorinating agent after filling bottle half full, then finish filling bottle. Do **NOT** add acid.
E = Fill bottle completely; i.e. **No** Air Bubble.

* * * * * Please Use Chain-Of-Custody Form Only When Requirements Mandate * * * * *

Single Sample **Chain-Of-Custody Form** *Single Sample*

We, the undersigned, certify that on 2/20/97 (Date) at 15:00 (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:* 189522" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☒ present & intact, ☐ present & damaged.

Released by: [signature] (Signature) & Received by: [signature] (Signature)

Additional Transfer, If Applicable:

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:*_____" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☐ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

OGC-002128

STATE OF NEW MEXICO — DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700, Albuquerque, NM 87196-4700 — 700 Camino de Salud, NE, [505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700318
REQUEST ID No.: 189523
RECEIVED AT SLD: 2/20/97
SLD COPY — USER 55321

SAMPLE COLLECTION: DATE: 2/20/97 TIME: 1233 BY: Pin
SAMPLING LOCATION: Sparton Vapor Well VR-4
SAMPLE MATRIX: Gas — REPORTING UNITS: ug/L

Remarks: Tedlar Gas Bag Sample
Evidenciary seals were broken by Patrick Basile on 2/20/97.

EPA METHOD 8021 Modified Volatiles by Purge & Trap Gas Chromatography [PID/ELCD]

DATE EXTRACTED: N/A
DATE ANALYZED: 2/20/97 — 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (ml): 0.015

ANALYSIS No.: OR- 9700318
SLD BATCH No.: 062
DILUTION FACTOR: 66.67
REQUEST ID No.: 189523

Barometric Pressure During Analayis in mm of Mercury: 634

CAS #	ANALYTE NAME	CONCENTRATION ug/L$_{air}$	CONCENTRATION ppm V/V	QUAL.	Sample Detection Limit ug/L$_{air}$	Sample Detection Limit ppm V/V
71-43-2	Benzene			U	333.3	123.08
108-86-1	Bromobenzene			U	333.3	61.15
74-97-5	Bromochloromethane			U	333.3	74.42
75-27-4	Bromodichloromethane*			U	333.3	58.54
75-25-2	Bromoform*			U	333.3	37.95
24-83-9	Bromomethane			U	333.3	101.06
78-93-3	2-Butanone (MEK)			U	3333.3	1333.37
104-51-8	n-Butylbenzene			U	333.3	71.64
135-98-8	sec-Butylbenzene			U	333.3	71.64
98-06-6	tert-Butylbenzene			U	333.3	71.64
1634-04-4	tert-Butyl methyl ether (MTBE)			U	3333.3	1090.94
56-23-5	Carbon tetrachloride			U	333.3	62.34
108-90-7	Chlorobenzene (monochlorobenzene)			U	333.3	84.96
75-00-3	Chloroethane			U	333.3	147.70
67-66-3	Chloroform*			U	333.3	80.67
74-87-3	Chloromethane			U	333.3	192.01
95-49-8	2-Chlorotoluene			U	333.3	76.19
106-43-4	4-Chlorotoluene			U	333.3	76.19
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	333.3	40.51
124-48-1	Dibromochloromethane*			U	333.3	46.16
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	333.3	51.07
74-95-3	Dibromomethane			U	333.3	102.13
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	333.3	65.31
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	333.3	65.31
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	333.3	65.31
75-71-8	Dichlorodifluoromethane			U	333.3	79.34
75-34-3	1,1-Dichloroethane			U	333.3	96.97
107-06-2	1,2-Dichloroethane			U	333.3	96.97
75-35-4	1,1-Dichloroethene			U	333.3	98.97
156-59-2	cis-1,2-Dichloroethene			U	333.3	98.97
156-60-5	trans-1,2-Dichloroethene			U	333.3	98.97
78-87-5	1,2-Dichloropropane			U	333.3	84.96
142-28-9	1,3-Dichloropropane			U	333.3	84.96
590-20-7	2,2-Dichloropropane			U	333.3	84.96
563-58-6	1,1-Dichloropropene			U	333.3	86.49
1006-01-5	cis-1,3-Dichloropropene			U	333.3	86.49
1006-02-6	trans-1,3-Dichloropropene			U	333.3	86.49
100-41-4	Ethylbenzene			U	333.3	90.57
87-68-3	Hexachlorobutadiene			U	333.3	36.78
98-82-8	Isopropylbenzene			U	333.3	80.00
99-87-6	4-Isopropyltoluene			U	333.3	71.11

MAR 1997 RECEIVED

75-09-2	Methylene chloride (Dichloromethane)			U	666.7	225.39
91-20-3	Naphthalene			U	333.3	60.76
103-65-1	Propylbenzene			U	333.3	80.00
100-42-5	Styrene			U	333.3	92.31
630-20-6	1,1,1,2-Tetrachloroethane			U	333.3	57.14
79-34-5	1,1,2,2-Tetrachloroethane			U	333.3	57.14
127-18-4	Tetrachloroethene			U	333.3	57.83
109-99-9	Tetrahydrofuran (THF)			U	3333.3	1333.37
108-88-3	Toluene			U	333.3	104.35
87-61-5	1,2,3-Trichlorobenzene			U	333.3	53.04
120-82-1	1,2,4-Trichlorobenzene			U	333.3	53.04
71-55-6	1,1,1-Trichloroethane	1100	240		333.3	72.18
79-00-5	1,1,2-Trichloroethane			U	333.3	72.18
79-01-6	Trichloroethene	2600	570		333.3	73.28
75-69-4	Trichlorofluoromethane			U	333.3	69.57
96-18-4	1,2,3-Trichloropropane			U	333.3	65.31
95-63-6	1,2,4-Trimethylbenzene			U	333.3	80.00
108-67-8	1,3,5-Trimethylbenzene			U	333.3	80.00
75-01-4	Vinyl chloride			U	333.3	154.84
95-47-6	o-Xylene*			U	333.3	90.57
N/A	p- & m-Xylene*			U	333.3	90.57
N/A	*Total Xylenes*			U	333.3	90.57
N/A	*Total Trihalomethanes*		N/A	U	333.3	

Laboratory Remarks: **Results reported were confirmed by GC/MS analysis.**
Recovery of TCE Calibration Gas standard was 92% in this batch.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY
SURROGATE RECOVERIES:	2-Bromochlorobenzene [Photo_Ionization_Detector]	8400	100.8%
	2-Bromochlorobenzene [Electro_Lytic-Conductivety_Detector]	7573	90.9%

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
n-Butylbenzene	10	81%
Naphthalene	10	79%

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)
No Exceptions	

ANALYST: **PATRICK BASILE** QC APPROVED BY: **KEN SHERRELL**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

est ID No. **ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM** SLD's Accession No.

Request ID No. 189523-B **OR**

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR For SLD OR-_ OR9700318

3 User Code: 553211 | Date & Time of Receipt at SLD: 97 FEB 20 PM 2:58 | 4 Sample Priority: 3 *If 1 or 2 call SLD*

5 Submitter Code: | WSS Code: - | User's Site ID: | 6 *Sample Temp. Receipt @ SLD:* ____°C

7 Facility or WSS Name: SIPARTION

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10* | 8 County: Bernalillo | 9 City: Albuquerque | 10 State: *or CHANGE* NM *TO*

11 Sampling Location: SIPARTION VAPOR WELL VR-4

12 Sample Collection: On: 02 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name) Rob (First Name)
At: 12 : 33 (Time: 24:00 Hour Clock)

13 Sample Info. Contact: Ph: [505] - 827 - 0178 If not collector, per box 12, Please print name here: _____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for: ☐ Submitter ☐ WSS / Client
☐ Send an additional Report to ➡

Name: _____
Address: _____
City: _____ *State:* _____ *Zip:* _____

15 **Field Data:** *(When appropriate)*

Temperature: ____°C; pH: ____
Chlorinated ? ☐ YES or ☐ NO (Please Check Box)
Chlorine Residual: ____mG/L
Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 **Field Remarks:** *(Optional)*

17 **Sample Type:** *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: _____

18 **Preservation:** *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: _____

19 **Analyses Requested:** *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____

Volatile Screens:
■-(754) Aromatic & Halogenated Volatiles (EPA 8021)
☐-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:
☐-(___) _____
☐-(___) _____

Remarks: _____

Semivolatile Screens:
☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002131

Organic Section Sample Collection Guidelines

(SLD-#) & Test Description	Approx. No. of Analytes Reported	Maximum Holding Time (days)	Sample Container	General Preservation Footnotes	Preservation Comments for Chlorinated Waters
VOLATILE ORGANIC COMPOUNDS:					
(754) Aromatic and Halogenated Volatiles	63	14	40 mL Glass Vial in duplicate	A, B, E	
(774) SDWA Volatile Organic Compounds, VOC-1's	63	14	40 mL Glass Vial in duplicate	A, B, E	Sample should be Unchlorinated
(766) SDWA Trihalomethanes	4	14	40 mL Glass Vial in duplicate	A, C, E	
(765) Volatile Organic Compounds, VOC's, by GC/MS	63	14	40 mL Glass Vial in duplicate	A, B, E	
SEMIVOLATILE ORGANIC COMPOUNDS:					
(758) Acid Herbicides	13	14	1 L Amber Glass	A, B, D	50 mG Sodium Sulfite per 1 L Bottle
(755) Base/Neutral Semivolatiles Organic Compounds by GC/MS	52	7	1 L Amber Glass in duplicate	A, B	
(756) Base/Neutral /Acid Semivolatile Organic Compounds by GC/MS	92	7	1 L Amber Glass in duplicate	A, B	
(772) Carbamate Pesticides	10	28	40 mL Glass Vial	A, C, D	3 mG Sodium Thiosulfate per 40 mL Vial
(783) Diquat	1	7	1 L Amber Plastic	A, C, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(775) EDB, DBCP & TCP	3	14	40 mL Glass Vial in duplicate	A, D	Sample should be Unchlorinated
(782) Endothall	1	7	40 mL Glass Vial in duplicate	A, D	4 mG Sodium Thiosulfate per 40 mL Vial
(781) Glyphosate	1	14	40 mL Amber Glass Vial	A, D	3 mG Sodium Thiosulfate per 40 mL Vial
(751) Hydrocarbon Fuel Screen (TPH and Hydrocarbon Range ID)	N/A	14	1 L Amber Glass in duplicate	A, B	
(760) Organochlorine Pesticides and PCB's	39	7	1 L Amber Glass in duplicate	A, B, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(788) Semivolatile Organic Compounds by GC/MS	72	14	1 L Amber Glass in duplicate	A, B, D	50 mG/L Sodium Sulfite per 1 L Bottle

Preservation Footnotes:

A = Cool samples to 4°C.
B = Reduce pH to 2 with Hydrochloric Acid, HCl.
C = As supplied by SLD, sample containers contain perservatives (check container label); Do **NOT** Rinse Container.
D = Chlorinated systems should request dechlorinating agents for SLD-#'s 775, 768, 772, 781, 782, 783 and 788. Add dechlorinating agent after filling bottle half full, then finish filling bottle. Do **NOT** add acid.
E = Fill bottle completely; i.e. **No** Air Bubble.

* * * * * Please Use Chain-Of-Custody Form Only When Requirements Mandate * * * * *

Single Sample **Chain-Of-Custody Form** *Single Sample*

We, the undersigned, certify that on 2/20/97 (Date) at 15:00 (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:* 189523" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☒ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

Additional Transfer, If Applicable:

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:*_____" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☐ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

OGC-002132

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT: X

Attn: Rob Pine
Ground Water Quality Bureau
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9700319
REQUEST ID No.: 189524
RECEIVED AT SLD: 2/20/97
SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 2/20/97 TIME: 1156 BY: Pin
SAMPLING LOCATION: Sparton Vapor Well VR-5
SAMPLE MATRIX: Gas REPORTING UNITS: ug/L

Remarks: Tedlar Gas Bag Sample
Evidenciary seals were broken by Patrick Basile on 2/20/97.

EPA METHOD 8021 Modified Volatiles by Purge & Trap Gas Chromatography [PID/ELCD]

DATE EXTRACTED: N/A
DATE ANALYZED: 2/20/97 0 Days: Within EPA Analysis Time
AIR SAMPLE VOL (ml): 0.015

ANALYSIS No.: OR- 9700319
SLD BATCH No.: 062
DILUTION FACTOR: 66.67
REQUEST ID No.: 189524

Barometric Pressure During Analayis in mm of Mercury: 634

CAS #	ANALYTE NAME	CONCENTRATION		QUAL.	Sample Detection Limit	
		ug/L$_{air}$	ppm V/V		ug/L$_{air}$	ppm V/V
71-43-2	Benzene			U	333.3	123.08
108-86-1	Bromobenzene			U	333.3	61.15
74-97-5	Bromochloromethane			U	333.3	74.42
75-27-4	Bromodichloromethane*			U	333.3	58.54
75-25-2	Bromoform*			U	333.3	37.95
24-83-9	Bromomethane			U	333.3	101.06
78-93-3	2-Butanone (MEK)			U	3333.3	1333.37
104-51-8	n-Butylbenzene			U	333.3	71.64
135-98-8	sec-Butylbenzene			U	333.3	71.64
98-06-6	tert-Butylbenzene			U	333.3	71.64
1634-04-4	tert-Butyl methyl ether (MTBE)			U	3333.3	1090.94
56-23-5	Carbon tetrachloride			U	333.3	62.34
108-90-7	Chlorobenzene (monochlorobenzene)			U	333.3	84.96
75-00-3	Chloroethane			U	333.3	147.70
67-66-3	Chloroform*			U	333.3	80.67
74-87-3	Chloromethane			U	333.3	192.01
95-49-8	2-Chlorotoluene			U	333.3	76.19
106-43-4	4-Chlorotoluene			U	333.3	76.19
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)			U	333.3	40.51
124-48-1	Dibromochloromethane*			U	333.3	46.16
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))			U	333.3	51.07
74-95-3	Dibromomethane			U	333.3	102.13
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)			U	333.3	65.31
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)			U	333.3	65.31
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)			U	333.3	65.31
75-71-8	Dichlorodifluoromethane			U	333.3	79.34
75-34-3	1,1-Dichloroethane			U	333.3	96.97
107-06-2	1,2-Dichloroethane			U	333.3	96.97
75-35-4	1,1-Dichloroethene	200	59	J	333.3	98.97
156-59-2	cis-1,2-Dichloroethene			U	333.3	98.97
156-60-5	trans-1,2-Dichloroethene			U	333.3	98.97
78-87-5	1,2-Dichloropropane			U	333.3	84.96
142-28-9	1,3-Dichloropropane			U	333.3	84.96
590-20-7	2,2-Dichloropropane			U	333.3	84.96
563-58-6	1,1-Dichloropropene			U	333.3	86.49
1006-01-5	cis-1,3-Dichloropropene			U	333.3	86.49
1006-02-6	trans-1,3-Dichloropropene			U	333.3	86.49
100-41-4	Ethylbenzene			U	333.3	90.57
87-68-3	Hexachlorobutadiene			U	333.3	36.78
98-82-8	Isopropylbenzene			U	333.3	80.00
99-87-6	4-Isopropyltoluene			U	333.3	71.11

MAR 1997 RECEIVED

75-09-2	Methylene chloride (Dichloromethane)			U	666.7	225.89
91-20-3	Naphthalene			U	333.3	60.76
103-65-1	Propylbenzene			U	333.3	80.00
100-42-5	Styrene			U	333.3	92.31
630-20-6	1,1,1,2-Tetrachloroethane			U	333.3	57.14
79-34-5	1,1,2,2-Tetrachloroethane			U	333.3	57.14
127-18-4	Tetrachloroethene			U	333.3	57.83
109-99-9	Tetrahydrofuran (THF)			U	3333.3	1333.37
108-88-3	Toluene			U	333.3	104.35
87-61-5	1,2,3-Trichlorobenzene			U	333.3	53.04
120-82-1	1,2,4-Trichlorobenzene			U	333.3	53.04
71-55-6	1,1,1-Trichloroethane	980	210		333.3	72.18
79-00-5	1,1,2-Trichloroethane			U	333.3	72.18
79-01-6	Trichloroethene	2500	560		333.3	73.28
75-69-4	Trichlorofluoromethane			U	333.3	69.57
96-18-4	1,2,3-Trichloropropane			U	333.3	65.31
95-63-6	1,2,4-Trimethylbenzene			U	333.3	80.00
108-67-8	1,3,5-Trimethylbenzene			U	333.3	80.00
75-01-4	Vinyl chloride			U	333.3	154.84
95-47-6	o-Xylene*			U	333.3	90.57
N/A	p- & m-Xylene*			U	333.3	90.57
N/A	*Total Xylenes*			U	333.3	90.57
N/A	*Total Trihalomethanes*		N/A	U	333.3	

Laboratory Remarks: **The results reported were confirmed by GC/MS analysis.**
Recovery of the TCE Gas Calibration standard was 92% in this batch.

LABORATORY BATCH QUALITY CONTROL SUMMARY

	SURROGATE COMPOUNDS	CONCENTRATION (uG/L$_{air}$)	% RECOVERY
SURROGATE RECOVERIES:	2-Bromochlorobenzene [Photo_Ionization_Detector]	8300	99.6%
	2-Bromochlorobenzene [Electro_Lytic-Conductivety_Detector]	7800	93.6%

LABORATORY FORTIFIED BLANK RECOVERIES

The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)	% RECOVERY
n-Butylbenzene	10	81%
Naphthalene	10	79%

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blankwith the exception of the compound(s) listed below (concentrations are relative to sample dilution):

COMPOUND	CONCENTRATION (ug/L)
No Exceptions	

ANALYST: **PATRICK BASILE** QC APPROVED BY: **KEN SHERRELL**

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

1 Request ID No.

Request ID No. 189524-B

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

2 SLD's Accession No.

OR

Scientific Laboratory Division
700 Camino de Salud, NE (P.O. Box 4700)
Albuquerque, NM 87106 (87196-4700)
Phone: 505-841-2500/ -2570/ -2566

OR

For SLD OR-____ OR9700319

3 User Code: 553211

Date & Time of Receipt at SLD: 97 FEB 20 PM 2:59

4 Sample Priority: 3 *If 1 or 2 call SLD*

5 Submitter Code: ____ WSS Code: ____-____ User's Site ID: ____

6 *Sample Temp. Receipt @ SLD:* ____°C

7 Facility or WSS Name: SPARTON

Facility/WSS Location: *If No WSS Code Complete 8, 9 & 10*

8 County: Bernalillo

9 City: Albuquerque

10 State: *or CHANGE* NM *TO* ____

11 Sampling Location: SPARTON VAPOR WELL VR-5

12 Sample Collection: On: 02 / 20 / 97 (Date: MM / DD / YY) By: Pine (Last Name)

At: 11 : 56 (Time: 24:00 Hour Clock) Rob (First Name)

13 Sample Info. Contact: Ph: [505] - 827 - 0178

If not collector, per box 12, Please print name here: ____

14 *Reports are mailed to the address specified by the Submitter Code and WSS Code (when present). However, if one of the following applies, please check ☒ appropriate boxes below and complete address form.*

☐ New Address for:
☐ Submitter
☐ WSS / Client

☐ Send an additional Report to ➡

Name: ____

Address: ____

City: ____ *State:* ____ *Zip:* ____

15 Field Data: *(When appropriate)*

Temperature: ____°C; pH: ____

Chlorinated ? ☐ YES or ☐ NO (Please Check Box)

Chlorine Residual: ____mG/L

Sulfate: ____ mG/L

SDWA Compositing:
☐ No Compositing Permitted
☐ Within This System Only
☐ Within All Systems

16 Field Remarks: *(Optional)*

Should be high in TCE

17 Sample Type: *(Check ☒ only one)*
☐ Water ■ Vapor ☐ Tissue ☐ Other: ☐ Liquid:
☐ Soil ☐ Plant ☐ Blood ☐ Solid: ____

18 Preservation: *(Check ☒ all that apply)*
■ No Preservation
☐ Stored at 4°C ☐ Preserved with HCl to pH < 2 ☐ Other: ____

19 Analyses Requested: *Please Check ☒ the appropriate box(es) below to indicate your analytical request(s); and, please indicate the number of bottles & vials submitted:* Bottles ____ Vials ____.

Volatile Screens:

■-(754) Aromatic & Halogenated Volatiles (EPA 8021)
☐-(765) Mass Spectrometer Volatiles (EPA 8260)
☐-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)
☐-(766) SDWA Total Trihalomethanes (EPA 502.2)

Other Specific Compounds or Classes:

☐-(___) ____
☐-(___) ____

Remarks: ____

Semivolatile Screens:

☐-(789) Drinking Water Semivolatile Screens (Indented list)
- ☐-(775) EDB, DBCP & TCP (EPA 504.1)
- ☐-(758) Acid Herbicides (EPA 515.2)
- ☐-(772) Carbamates (EPA 531.1)
- ☐-(781) Glyphosate (EPA 547)
- ☐-(782) Endothall (EPA 548.1)
- ☐-(783) Diquat (EPA 549.1)
- ☐-(788) SOC (EPA 525.2)

☐-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
☐-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
☐-(760) Organochlorine Pesticides / PCB's (EPA 608)
☐-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
☐-(768) Disinfection Byproducts Screen (Indented list)
- ☐-(771) Haloacetic Acids (EPA 552.2)
- ☐-(769) Haloacetonitriles / THM's (EPA 551.1)
- ☐-(770) Chloral Hydrate (EPA 551.1)
- ☐-(773) Total Organic Halides [TOX] (EPA 5320b)

OGC-002135

Please RETAIN A COPY of your completed form for your records

Organic Section Sample Collection Guidelines

(SLD-#) & Test Description	Approx. No. of Analytes Reported	Maximum Holding Time (days)	Sample Container	General Preservation Footnotes	Preservation Comments for Chlorinated Waters
VOLATILE ORGANIC COMPOUNDS:					
(754) Aromatic and Halogenated Volatiles	63	14	40 mL Glass Vial in duplicate	A, B, E	
(774) SDWA Volatile Organic Compounds, VOC-1's	63	14	40 mL Glass Vial in duplicate	A, B, E	Sample should be Unchlorinated
(766) SDWA Trihalomethanes	4	14	40 mL Glass Vial in duplicate	A, C, E	
(765) Volatile Organic Compounds, VOC's, by GC/MS	63	14	40 mL Glass Vial in duplicate	A, B, E	
SEMIVOLATILE ORGANIC COMPOUNDS:					
(758) Acid Herbicides	13	14	1 L Amber Glass	A, B, D	50 mG Sodium Sulfite per 1 L Bottle
(755) Base/Neutral Semivolatiles Organic Compounds by GC/MS	52	7	1 L Amber Glass in duplicate	A, B	
(756) Base/Neutral /Acid Semivolatile Organic Compounds by GC/MS	92	7	1 L Amber Glass in duplicate	A, B	
(772) Carbamate Pesticides	10	28	40 mL Glass Vial	A, C, D	3 mG Sodium Thiosulfate per 40 mL Vial
(783) Diquat	1	7	1 L Amber Plastic	A, C, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(775) EDB, DBCP & TCP	3	14	40 mL Glass Vial in duplicate	A, D	Sample should be Unchlorinated
(782) Endothall	1	7	40 mL Glass Vial in duplicate	A, D	4 mG Sodium Thiosulfate per 40 mL Vial
(781) Glyphosate	1	14	40 mL Amber Glass Vial	A, D	3 mG Sodium Thiosulfate per 40 mL Vial
(751) Hydrocarbon Fuel Screen (TPH and Hydrocarbon Range ID)	N/A	14	1 L Amber Glass in duplicate	A, B	
(760) Organochlorine Pesticides and PCB's	39	7	1 L Amber Glass in duplicate	A, B, D	100 mG/L Sodium Thiosulfate per 1 L Bottle
(788) Semivolatile Organic Compounds by GC/MS	72	14	1 L Amber Glass in duplicate	A, B, D	50 mG/L Sodium Sulfite per 1 L Bottle

Preservation Footnotes:

A = Cool samples to 4°C.
B = Reduce pH to 2 with Hydrochloric Acid, HCl.
C = As supplied by SLD, sample containers contain perservatives (check container label); Do **NOT** Rinse Container.
D = Chlorinated systems should request dechlorinating agents for SLD-#'s 775, 768, 772, 781, 782, 783 and 788. Add dechlorinating agent after filling bottle half full, then finish filling bottle. Do **NOT** add acid.
E = Fill bottle completely; i.e. **No** Air Bubble.

* * * * * Please Use Chain-Of-Custody Form Only When Requirements Mandate * * * * *

Single Sample **Chain-Of-Custody Form** *Single Sample*

We, the undersigned, certify that on 2/20/97 (Date) at 15:00 (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:* 189524" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☒ present & intact, ☐ present & damaged.

Released by: [signature] (Signature) & Received by: [signature] (Signature)

Additional Transfer, If Applicable:

We, the undersigned, certify that on _____ (Date) at _____ (Time) the sample identified on the container(s) and reverse of this request form by "*Request ID No.:*_____" was transferred with evidentiary seal(s):

(check applicable box) ☐ not present, ☐ present & intact, ☐ present & damaged.

Released by: _____ (Signature) & Received by: _____ (Signature)

OGC-002136