

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
NMED/ Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR-	9603185
REQUEST ID No.:	151890
RECEIVED AT SLD:	10/3/96
USER	55321

SAMPLE COLLECTION: DATE: 10/3/96 TIME: 1020 BY: Mor
 SAMPLING LOCATION: Sparton MW-
 SAMPLE MATRIX: water REPORTING UNITS: ug/L

Remarks: Sample marked as: being preserved with Hydrochloric Acid;

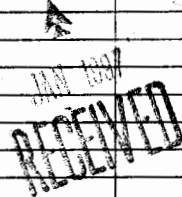
EPA METHOD 8260 MASS SPECTROMETER VOLATILES BY PURGE AND TRAP

DATE EXTRACTED: N/A
 DATE ANALYZED: 10/12/96 9 Days: Within EPA Analysis Time
 SAMPLE VOL (ml): 0.05

ANALYSIS No.: OR-	9603185
SLD BATCH No.:	519A
DILUTION FACTOR:	100.00
REQUEST ID No.:	151890

SAMPLE PRESERVATION: Sample Temperature when received: 10 Degrees C.; pH = 2

CAS #	ANALYTE NAME	CONC. (ug/L)	QUAL.	SDL
71-43-2	Benzene		U	50.0
108-86-1	Bromobenzene		U	50.0
74-97-5	Bromochloromethane		U	50.0
75-27-4	Bromodichloromethane*		U	50.0
75-25-2	Bromoform*		U	50.0
24-83-9	Bromomethane		U	50.0
78-93-3	2-Butanone (MEK)		U	500.0
104-51-8	n-Butylbenzene		U	50.0
135-98-8	sec-Butylbenzene		U	50.0
98-06-6	tert-Butylbenzene		U	50.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	500.0
56-23-5	Carbon tetrachloride		U	50.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	50.0
75-00-3	Chloroethane		U	50.0
67-66-3	Chloroform*		U	50.0
74-87-3	Chloromethane		U	50.0
95-49-8	2-Chlorotoluene		U	50.0
106-43-4	4-Chlorotoluene		U	50.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	50.0
124-48-1	Dibromochloromethane*		U	50.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	50.0
74-95-3	Dibromomethane		U	50.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	50.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	50.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	50.0
75-71-8	Dichlorodifluoromethane		U	50.0
75-34-3	1,1-Dichloroethane		U	50.0
107-06-2	1,2-Dichloroethane		U	50.0
75-35-4	1,1-Dichloroethene		U	50.0
156-59-2	cis-1,2-Dichloroethene		U	50.0
156-60-5	trans-1,2-Dichloroethene		U	50.0
78-87-5	1,2-Dichloropropane		U	50.0
142-28-9	1,3-Dichloropropane		U	50.0
590-20-7	2,2-Dichloropropane		U	50.0
563-58-6	1,1-Dichloropropene		U	50.0
1006-01-5	cis-1,3-Dichloropropene		U	50.0
1006-02-6	trans-1,3-Dichloropropene		U	50.0
100-41-4	Ethylbenzene		U	50.0
87-68-3	Hexachlorobutadiene		U	50.0
98-82-8	Isopropylbenzene		U	50.0



99-87-6	4-Isopropyltoluene		U	50.0
75-09-2	Methylene chloride (Dichloromethane)		U	100.0
91-20-3	Naphthalene		U	50.0
103-65-1	Propylbenzene		U	50.0
100-42-5	Styrene		U	50.0
630-20-6	1,1,1,2-Tetrachloroethane		U	50.0
79-34-5	1,1,2,2-Tetrachloroethane		U	50.0
127-18-4	Tetrachloroethene		U	50.0
109-99-9	Tetrahydrofuran (THF)		U	500.0
108-88-3	Toluene		U	50.0
87-61-5	1,2,3-Trichlorobenzene		U	50.0
120-82-1	1,2,4-Trichlorobenzene		U	50.0
71-55-6	1,1,1-Trichloroethane		U	50.0
79-00-5	1,1,2-Trichloroethane		U	50.0
79-01-6	Trichloroethene	488		50.0
75-69-4	Trichlorofluoromethane		U	50.0
96-18-4	1,2,3-Trichloropropane		U	50.0
95-63-6	1,2,4-Trimethylbenzene		U	50.0
108-67-8	1,3,5-Trimethylbenzene		U	50.0
75-01-4	Vinyl chloride		U	50.0
95-47-6	o-Xylene [#]		U	50.0
N/A	p- & m-Xylene [#]		U	50.0
N/A	*Total Xylenes*		U	50.0
N/A	*Total Trihalomethanes*		U	50.0

Laboratory Remarks:

An additional analysis conducted on this sample on November 22, 1996 using a GC with photoionization detector and Electrolytic conductivity detector gave results as follows:

Trichloroethene 720. ppb

Even though this result is not in good agreement with the results reported above, a cause of the discrepancy could not be identified with the data available.

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	Toluene - D8	539.0	107.8%
	4 - Bromofluorobenzene	501.0	100.2%
	1,2 - Dichlorobenzene - D4	461.0	92.2%
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:		
	<u>COMPOUND</u>	<u>CONCENTRATION (ug/L)</u>	<u>% RECOVERY</u>
	2,2-Dichloropropane	5.0	74%
	Styrene	5.0	175%
	Bromoform	5.0	78%
	Naphthalene	5.0	76%
	1,2,3-Trichlorobenzene	5.0	76%
LABORATORY BLANKS	No target compounds were detected above the sample detection limit in laboratory blank with the exception of the compound(s) listed below:		
	<u>COMPOUND</u>	<u>CONCENTRATION (ug/L)</u>	
	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 quantitation can be given (-3 * 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)

SCIENTIFIC LABORATORY DIVISION

96 OCT -3 PM 4:33

SLD No.

OR96-3185-C

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

Date Received:

2 User Code #: <u>55321</u>	3 Request ID No.:	Request ID No. 151890-C	4 Priority Code #: <u>3</u>	[If "1" or "2", call ED-SLD Coordinator]
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5 Facility Name: <u>Sparton</u>	6 County: <u>Bernalillo</u>	7 City: <u>Albuquerque</u>	8 State: <u>N.M.</u>
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9 Sample Location: Sparton, MW-

10 Collected By: DAVID MORGAN On: 96/10/03 At: 1020 hrs.
 First Last Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

11 Codes: 418 Submitter WSS # Organization

12 Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

13 Report To: Rob Pine 14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110
 City, State Zip: Santa Fe, NM 87502

15 Sampling Information:
 Sample Purpose: Grab Composite (Composite Time Period)
 Compliance Flow Proportioned
 NMED Monitoring Equal Aliquot
 Confirmation Sample Split w/Permittee
 Special Chain of Custody

16 Field Data: pH: _____, Conductivity: _____ umhos/cm @ Temperature: _____ °C, Chlorine Residual: _____ mg/l, Flow: _____

17 Sample Source:
 -Stream -Entry Point to Distribution
 -Lake -Well; Depth: _____
 -Drain -Spring
 -Pool -Distribution
 -WWTP -Other: _____

18 Field Remarks: Project Code: 515

19 Sample Type: - Water - Unchlorinated - Chlorinated
 - Wastewater
 - Soil, - Food, - Other

This form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40 ml ea.)
 _____ - glass jug(s) (volume = _____ ml ea.)
 _____ (volume = _____)

20 Preservation:
 - NP No Preservation; Sample stored at room temperature
 - P-Ice Sample stored in an ice bath (Not Frozen)
 - P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
 - P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
 - P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
 - Other _____

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

<p>Volatile Screens:</p> <input type="checkbox"/> - (753) Aliphatic Headspace (Qualitative Screen) <input checked="" type="checkbox"/> - (754) Aromatic & Halogenated Purgeables (EPA 601/2) <input type="checkbox"/> - (765) Mass Spectrometer Purgeables (EPA 624) <input type="checkbox"/> - (766) SDWA Total Trihalomethanes (EPA 501.1) <input type="checkbox"/> - (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2) <input type="checkbox"/> - (775) SDWA VOC's II [EDB & DBCP] (EPA 504) <input type="checkbox"/> - (790) Composite Sample for Analysis No. _____ <p>Other Specific Compounds or Classes:</p> <input type="checkbox"/> - () _____ <input type="checkbox"/> - () _____	<p>Semivolatile Screens:</p> <input type="checkbox"/> - (755) Base/Neutral Extractables (EPA 625) <input type="checkbox"/> - (756) Base/Neutral/Acid Extractables (EPA 8270) <input type="checkbox"/> - (772) Carbamate Pesticides (EPA 531.1) <input type="checkbox"/> - (758) Herbicides, Chlorophenoxy Acid (EPA 515.1) <input type="checkbox"/> - (759) Herbicides, Triazine (EPA 507) <input type="checkbox"/> - (751) Hydrocarbon Fuel Screen (EPA M-8015) <input type="checkbox"/> - (760) Organochlorine Pesticides (EPA 505) <input type="checkbox"/> - (761) Organophosphate Pesticides (EPA 507) <input type="checkbox"/> - (767) Polychlorinated Biphenyls (PCB's) in Oil <input type="checkbox"/> - (762) SDWA Synthetic Org. Cmpds. (SLD 758/760) <input type="checkbox"/> - (782) Total Petroleum Hydrocarbons (EPA 418.1)
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Remarks: 10c

SLD ORGANICS SAMPLE COLLECTION GUIDELINES

ANALYTICAL ANALYSIS GROUP	NO OF ANALYTES IN TEST	EPA METHOD NUMBER	SLD # METHOD NUMBER	MAX HOLDING TIME (DAYS)	SAMPLE (NO.) SIZE	PRESERVATIVE
ALIPHATIC HEADSPACE (QUALITATIVE GC SCAN)	6	N/A	763	14	(2) 40 ml Vials	Cool 4 Deg. C., 20 PPM Mercuric Chloride
AROMATIC & HALOGENATED VOLATILES	67	601/2	764	14	(2) 40 ml Vials	Cool 4 Deg. C., 20 PPM Mercuric Chloride
MASS SPECTROMETER VOLATILES	60	624	765	14	(2) 40 ml Vials	Cool 4 Deg. C., 20 PPM Mercuric Chloride
SDWA VOLATILES-1	60	602.2	774	14	(2) 40 ml Vials	Cool 4 Deg. C., HCl pH <2 (2 drops)
SDWA VOLATILES-2	2	604	776	28	(2) 40 ml Vials	Cool 4 Deg. C., HCl pH <2 (2 drops)
TRIPHALOMETHANES	4	501.1	766	14	(2) 40 ml Vials	Cool 4 Deg. C., Thiosulfate
BASE/NEUTRAL SEMIVOLATILES	50	625	755	7	(2) 1 L	HCl pH <2 Cool 4 Deg. C.,
BASE/NEUTRAL/ACID SEMIVOLATILES	64	8270	768	7	(2) 1 L	HCl pH <2 Cool 4 Deg. C.,
CARBAMATE PESTICIDES	10	631.1	780	28 +	(2) 40 ml Vials	Chloroacetic Acid Buffer 24 drops/40 ml vial
HERBICIDES, CHLOROPHENOXY ACID	10	616.1	768	14	(2) 1 L	10 ppm Mercuric Chloride 12 drops/L Bottle Cool 4 Deg. C.,
HERBICIDES, TRIAZINE	7	605	759	14	(2) 40 ml Vials	Cool 4 Deg. C.,
HYDROCARBON FUEL SCREEN (IDENTIFICATION & TPH)	N/A	GC-FID	751	14	(2) 40 ml Vials	Cool 4 Deg. C., 20 PPM Mercuric Chloride
ORGANOCHLORINE PESTICIDES AND PCB's	29	505	760	7	(2) 40 ml Vials	Cool 4 Deg. C.,
ORGANOPHOSPHATE PESTICIDES	15	507	761	14	(2) 1 L	Cool 4 Deg. C.,
PCB's IN OIL	6	MS-28	767	28	(2) 40 ml Vials	Cool 4 Deg. C.,
SDWA PESTICIDES & HERBICIDES	39	505/515.1	762	7	(2) 40 ml VIAL (2) 1 L	Cool 4 Deg. C.,
TOTAL PETROLEUM HYDROCARBONS	1	418.1	782	14	WATER: (2) 1 L SOIL: 2-40ML	Cool 4 Deg. C., pH <2 OR Mercuric Chloride

ALL SAMPLES SHOULD BE COLLECTED IN GLASS CONTAINERS WITH TEFLON LINED LIDS.

SAMPLE CONTAINERS ARE PROVIDED BY THE LABORATORY.

* ANALYSIS SHOULD BE SCHEDULED WITH LABORATORY PRIOR TO SUBMITTAL

USE ONLY WHEN NECESSARY

Chain-Of-Custody

I certify that this sample was transferred from DAND MARSH to B. Dobie

at (location) SLD on 10/3/96 at 16:32
Date Time

Seals Intact: -Yes -No

Signatures: [Signature] [Signature]

and from (if applicable) _____ to _____

(location) _____ on _____ at _____
Date Time

Seals Intact: -Yes -No

Signatures: _____