



Environmental Services Company, Inc.

CORPORATE OFFICE:  
13715 W. MARKHAM - P.O. BOX 5644  
LITTLE ROCK, ARKANSAS 72215  
(501) 221-2565 - FAX NO. (501) 221-1341

NORTHWEST BRANCH:  
1107 CENTURY  
SPRINGDALE, ARKANSAS 72762  
(501) 750-1170 - FAX NO. (501) 750-1172

Handwritten notes: 2, 1-1896, PT

January 11, 1996

2920

Mr. Al Eckert  
Solid Waste Division  
Ark. Dept. of Pollution Control & Ecology  
8001 National Drive  
P.O. Box 8913  
Little Rock, AR 72219-8913

Scanned and Entered

Dear Mr. Eckert:

Please find the completed analytical testing results from the monitoring wells at the Tontitown Landfill site of Sunray Services, Inc.

The samples were collected on Tuesday, December 5, 1995 and transported back to our Northwest Arkansas Branch Office. Portions of the samples, metals, were sent to the Little Rock Laboratory for analysis on Wednesday, December 6, 1995.

Due to the organic section of ESC being moved from the Little Rock laboratory the Springdale laboratory, the organic analyses portion of the samples were subcontracted out to Sorrell's Research on December 6, 1995.

The results of the analyses are presented with the monitoring wells being first, leachate tanks next and then the trip and equipment Blanks. Both the original chain of custody forms and the forms associated with the samples sent to Little Rock and Sorrell's Research are located after the analytical results.

If you have any questions, please feel free to contact our office.

Sincerely,

Robert F. Benham  
Branch Manager/Laboratory Director

cc: Kevin Hodges, Sunray Services  
Dan McCullough, Genesis Environmental  
Mark Witherspoon, Genesis Environmental

SAMPLE

CONTROL NUMBER

MW #1	9512020046
MW #2	9512020047
MW #3	9512020048
MW #4	9512020049
MW #5	9512020050
MW #6	9512020051
MW #6 Duplicate	9512020052
MW #7	9512020053
MW #8	9512020054
MW #10	9512020055
MW #11	9512020056
Equipment Blank	9512020057
Trip Blank	9512020041
Site #3 leachate	9512020042
Site #4 leachate	9512020044
Transfer Station leachate	9512020045



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SPRINGDALE, ARKANSAS 72762  
(501) 750-1170 - FAX NO. (501) 750-1172

JAN 18 1996

This document contains results for analyses on samples for the Tontitown landfill site of SUNRAY SERVICES, INC.

The samples were collected on December 5, 1995, and transported to the Northwest Arkansas branch of Environmental Services Company, Inc. The samples were received at the branch laboratory on the same day as the sampling, December 5. Portions of the samples were transported to the Little Rock laboratory of Environmental Services Company, Inc. on December 6.

Due to the organic section of ESC being moved from the Little Rock office to the Springdale Branch office, the volatile samples for the monitoring wells and the organic portions of the TCLP's for the leachate tanks were subcontracted out to Sorrell's Research on December 6.

The report contains:            results for the Monitoring Wells, in order  
   results for the Trip and Equipment Blanks  
   results for TCLP analyses of leachate tanks  
   Chains of Custodies  
   Groundwater Sampling Records

Note that there are three Chains of Custody for each sample. The original Chain of Custody is the one associated with the samples being delivered to the Springdale laboratory. The second Chain of Custody is associated with the samples that were transported to the Little Rock laboratory. The third Chain of Custody is associated with the samples that were sent to Sorrell's Research for the organic work.



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8002 Stanton Road  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020046. WATER GRAB. *mw-1*

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene		5.500	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane		5.800	ug/Liter	8260
Chloroform		0.200	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-		16.900	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-		7.620	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-		8.600	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-		0.500	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.001



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# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

8002 Stanton Road  
Little Rock, Arkansas 72209

## WEF



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Fax 501-562-7025  
Toll Free 1-800-331-8139

### LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020046. WATER GRAB. *MW-1*

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		0.600	ug/Liter	8260
Toluene	<	0.050	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		1.100	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		8.940	ug/Liter	8260
Xylene, o-		0.200	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes		0.200	ug/Liter	8260



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**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 *mw-1*

Sample From: SAMPLE IDENT. 9512020046. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD
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Collected by:  
CLIENT on 12/05/95 at 8:30  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.001

TRR Reviewed By: K. E. Sorrells, M.S. *[Signature]*



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
 Sample preservation and laboratory analysis conducted according to EPA  
 40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
 ADPC&E. Include replication.

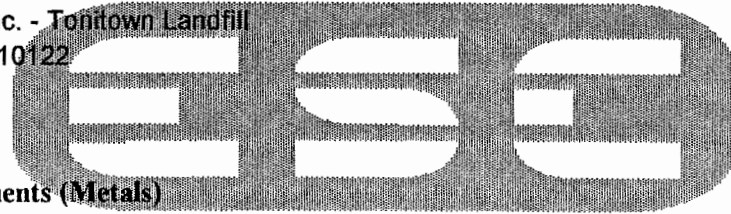
KES = K. E. Sorrells  
 JBS = James B. Sorrells  
 CAS = Cecil A. Sorrells  
 KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
 TJS = Todd J. Sanders  
 MKM = Mark K. McKenzie

Laboratory Number: R061.001      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020046/9512010122  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #1


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	97.00	2.47	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	96.00	8.96	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	95.70	1.45	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	93.90	0.94	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	101.40	1.08	73.0-125.4
Cobalt	0.09	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	93.60	1.34	72.0-124.3
Nickel	0.204	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	121.70	46.91	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	95.90	1.22	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.486	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

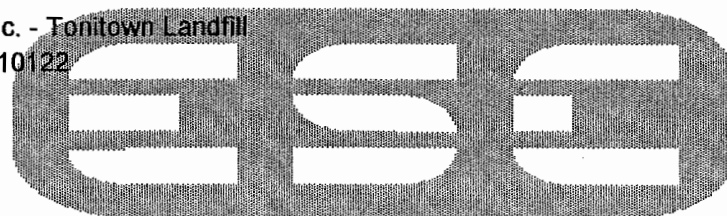
Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 (501) 221-1341 FAX

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX



Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020046/9512010122  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #1


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	8-Dec	930	BTM	EPA 350.2	0.10	100.10	1.98	85.9-107.0
Bicarbonate	525.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	527.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	35.625	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	25.6	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	1.57	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	4.22	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	4.73	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	100.20	10.53	53.0-137.1
Nitrate Nitrogen	0.822	12-Dec	1410	VLP	EPA 353.3	0.05	101.00	5.16	65.1-123.8
Potassium	335.0	14-Dec	830	BET	EPA 258.1	0.50	114.00	4.29	51.2-145.9
Sodium	18.74	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	3.086	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	630.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	2.962	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 FAX (501) 221-1341

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72762  
 (501) 750-1170 FAX (501) 750-1172



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# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

8002 Stanton Road  
Little Rock, Arkansas 72209

# WEF



Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-2*

Sample From: SAMPLE IDENT. 9512020047. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.800	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.002



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*MW-2*

Sample From: SAMPLE IDENT. 9512020047. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene	<	0.130	ug/Liter	8260
Toluene		0.400	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene	<	0.130	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride	<	1.180	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes		0.200	ug/Liter	8260
Xylenes		0.200	ug/Liter	8260



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020047. WATER GRAB. *mw-2*

ANALYTE	RESULT UNITS	METHOD
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Collected by:  
CLIENT on 12/05/95 at 14:05  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained.  
See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.002 - TRR Reviewed By: K. E. Sorrells, M.S. - [Signature]



CHEMISTS  
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Little Rock, Arkansas 72209

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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

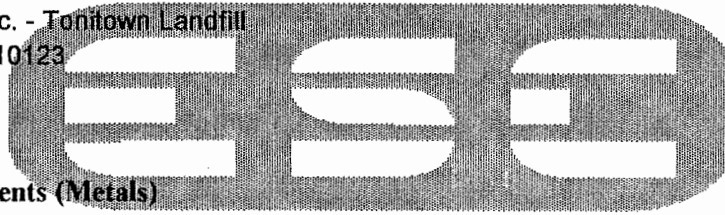
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.002      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020047/9512010123  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #2

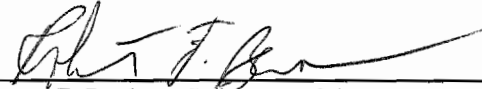
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	97.00	2.47	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	96.00	8.96	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	93.90	0.94	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	101.40	1.08	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	93.60	1.34	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	121.70	46.91	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	95.90	1.22	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.031	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

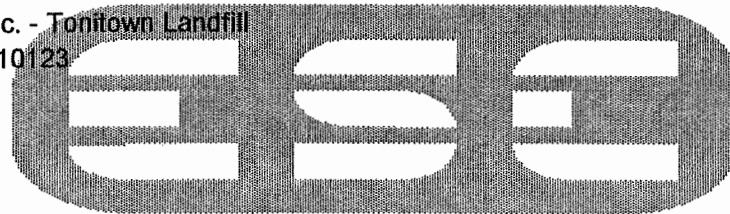
  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
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Environmental Services Company, Inc.  
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 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020047/9512010123  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #2

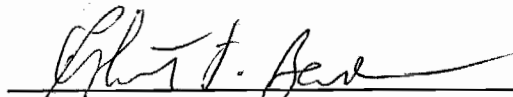
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	8-Dec	930	BTM	EPA 350.2	0.10	100.10	1.98	85.9-107.0
Bicarbonate	185.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	286.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	10.00	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	<3.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.32	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	4.96	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	100.20	10.53	53.0-137.1
Nitrate Nitrogen	0.729	12-Dec	1410	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	256.0	14-Dec	830	BET	EPA 258.1	0.50	114.00	4.29	51.2-145.9
Sodium	5.13	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	1.288	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	208.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	1.436	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*MW-3*

Sample From: SAMPLE IDENT. 9512020048. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene		0.900	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane		1.590	ug/Liter	8260
Chloroform		0.700	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-		1.900	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-		0.130	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-		2.000	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.003





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**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-3*

Sample From: SAMPLE IDENT. 9512020048. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		0.500	ug/Liter	8260
Toluene	<	0.050	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		0.500	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		3.280	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes	<	0.090	ug/Liter	8260



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-3*

Sample From: SAMPLE IDENT. 9512020048. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:  
CLIENT on 12/05/95 at 14:25  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.003      TRR Reviewed By: K. E. Sorrells, M.S. [4/6]



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

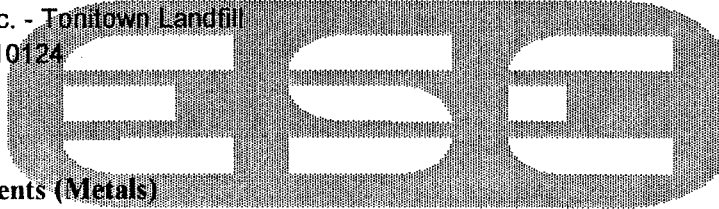
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.003      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020048/9512010124  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #3


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Appendix I Inorganic Constituents (Metals)**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	97.00	2.47	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	96.00	8.96	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	93.90	0.94	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	101.40	1.08	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	93.60	1.34	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.112	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

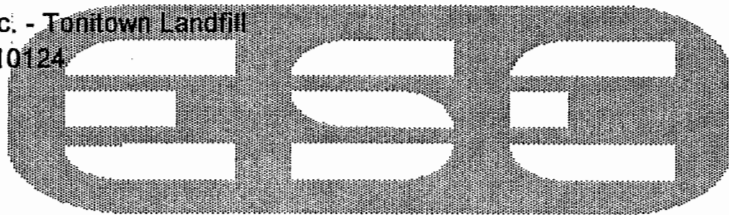
  
 Robert F. Benham, Laboratory Director

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Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020048/9512010124  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #3

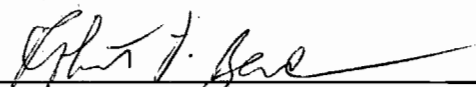
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	8-Dec	930	BTM	EPA 350.2	0.10	100.10	1.98	85.9-107.0
Bicarbonate	615.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	377.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	1.25	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	11.3	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.63	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	2.01	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	0.443	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	100.20	10.53	53.0-137.1
Nitrate Nitrogen	<0.05	12-Dec	1410	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	154.0	14-Dec	830	BET	EPA 258.1	0.50	114.00	4.29	51.2-145.9
Sodium	2.52	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	2.187	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	260.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	5.549	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-4*

Sample From: SAMPLE IDENT. 9512020049. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	4.000	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	2.910	ug/Liter	8260
Chloroform	<	0.210	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	7.200	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.740	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	15.100	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.600	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.004



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020049. WATER GRAB. *mw-4*

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		1.300	ug/Liter	8260
Toluene	<	0.050	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		4.700	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		7.550	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes	<	0.090	ug/Liter	8260



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Little Rock, Arkansas 72209

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Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-  
Job: CONTRACT ANALYSIS. P.O. #749  
Sample From: SAMPLE IDENT. 9512020049. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD
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Collected by:  
CLIENT on 12/05/95 at 12:00  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.004

TRR Reviewed By: K. E. Sorrells, M.S. [45]





CHEMISTS  
ECOLOGISTS  
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PLANNERS



# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

8002 Stanton Road  
Little Rock, Arkansas 72209

# WEF



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

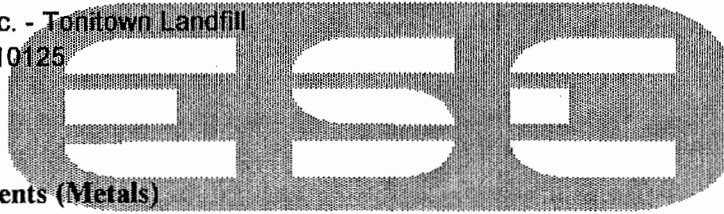
Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.004      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020049/9512010125  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #4

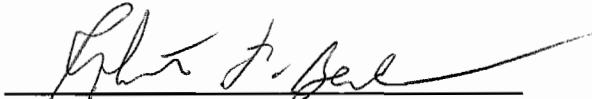


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95

Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	97.00	2.47	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	96.00	8.96	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	93.90	0.94	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	93.60	1.34	72.0-124.3
Nickel	0.258	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.166	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

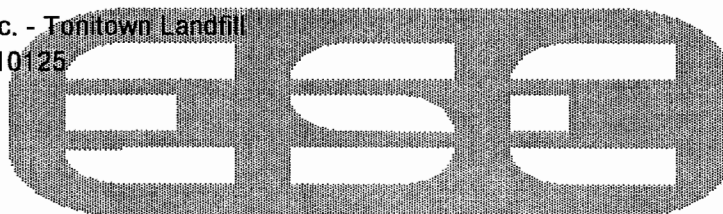
  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 (501) 221-1341 FAX

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020049/9512010125  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #4

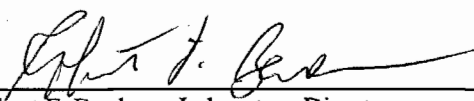
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	355.0	13-Dec	1500	VLP	SM, 18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	457.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	10.00	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	15.0	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.69	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	3.43	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	9.89	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	100.20	10.53	53.0-137.1
Nitrate Nitrogen	<0.05	12-Dec	1410	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	208.0	14-Dec	830	BET	EPA 258.1	0.50	114.00	4.29	51.2-145.9
Sodium	5.9	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	1.378	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	656.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	7.906	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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 Little Rock, Arkansas 72211  
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# WEF



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Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-5*

Sample From: SAMPLE IDENT. 9512020050. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.200	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.300	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	4.500	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.070	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	1.500	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
ibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.005



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 *MW-5*

Sample From: SAMPLE IDENT. 9512020050. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		5.200	ug/Liter	8260
Toluene		0.600	ug/Liter	8260
Trichloroethane, 1, 1, 1-		1.200	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		1.600	ug/Liter	8260
Trichlorofluoromethane	<	0.070	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride	<	1.180	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes		0.100	ug/Liter	8260
Xylenes		0.100	ug/Liter	8260



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For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 *mw-5*

Sample From: SAMPLE IDENT. 9512020050. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

---

Collected by:  
CLIENT on 12/05/95 at 9:15  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.005

TRR Reviewed By: K. E. Sorrells, M.S. [ *JS* ]



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

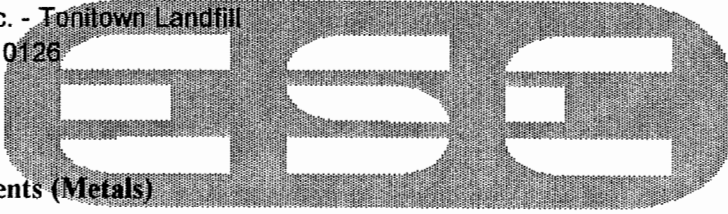
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.005      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020050/9512010126  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #5

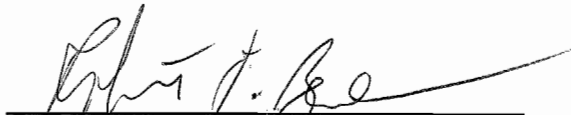
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.105	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

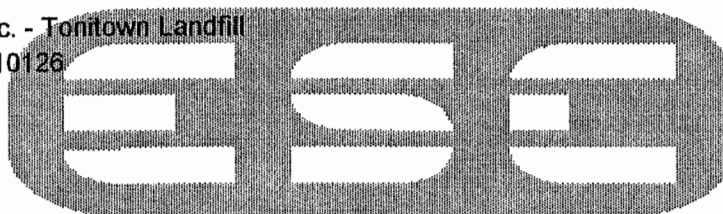
Environmental Services Company, Inc.  
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Environmental Services Company, Inc.  
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 1107 Century  
 Springdale, Arkansas 72764  
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Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020050/9512010126  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #5

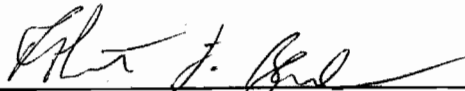
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	340.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	392.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	31.25	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	15.0	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.07	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	1.79	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	1.519	12-Dec	1410	VLP	EPA 353.3	0.05	101.00	5.16	65.1-123.8
Potassium	200.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	10.02	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	3.086	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	504.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	4.407	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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 Little Rock, Arkansas 72211  
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 Springdale, Arkansas 72762  
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LABORATORY AND FIELD SERVICES**

**WEF**



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-  
Job: CONTRACT ANALYSIS. P.O. #749

*mw-6*

Sample From: SAMPLE IDENT. 9512020051. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene		0.250	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane		1.100	ug/Liter	8260
Chloroform	<	0.210	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-		3.100	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-		1.000	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Bromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.006



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Little Rock, Arkansas 72209

# WEF



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Fax 501-562-7025  
Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-6*

Sample From: SAMPLE IDENT. 9512020051. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		3.400	ug/Liter	8260
Toluene		0.900	ug/Liter	8260
Trichloroethane, 1, 1, 1-		1.000	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		1.500	ug/Liter	8260
Trichlorofluoromethane		2.400	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		4.020	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes		0.050	ug/Liter	8260
Xylenes		0.050	ug/Liter	8260

Laboratory Number: R061.006



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020051. WATER GRAB. *mw-6*

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:  
CLIENT on 12/05/95 at 9:50  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.006

TRR Reviewed By: K. E. Sorrells, M.S. [Signature]



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**QUALITY ASSURANCE**

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
 Sample preservation and laboratory analysis conducted according to EPA  
 40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
 ADPC&E. Include replication.

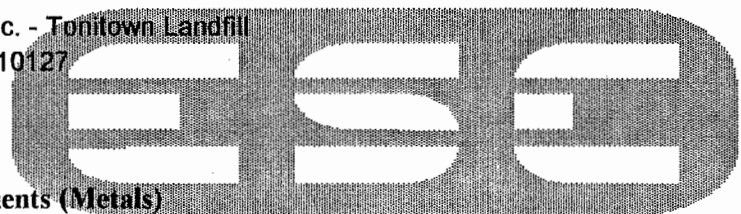
KES = K. E. Sorrells  
 JBS = James B. Sorrells  
 CAS = Cecil A. Sorrells  
 KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
 TJS = Todd J. Sanders  
 MKM = Mark K. McKenzie

Laboratory Number: R061.006      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020051/9512010127  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #6

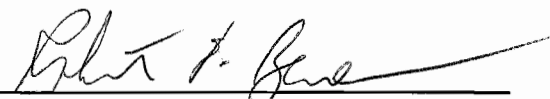
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.047	13-Dec	1500	BET	EPA 289.1	0.01	105.80	2.82	72.0-119.3

Data Release Authorized By:

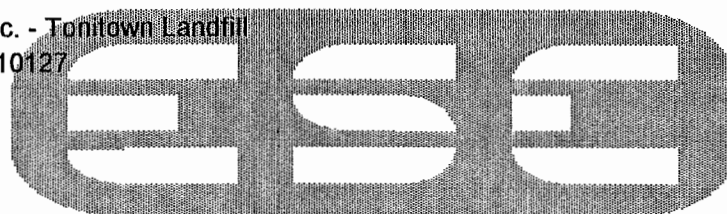
  
 Robert F. Benham, Laboratory Director

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 Little Rock, Arkansas 72211  
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Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
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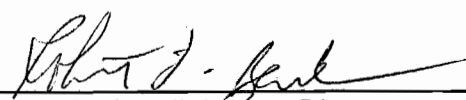
Client Name : Sunray Services, Inc. - Tomitown Landfill  
 Lab Control Number : 9512020051/9512010127  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #6

Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	235.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	402.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	16.25	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	7.5	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.08	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	2.14	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	0.024	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	3.622	12-Dec	1410	VLP	EPA 353.3	0.05	101.00	5.16	65.1-123.8
Potassium	248.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	6.83	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	1.198	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	344.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	2.863	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:   
 Robert F. Benham, Laboratory Director

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# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*MW-6 Dup.*

Sample From: SAMPLE IDENT. 951202052-DUP. WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene		0.300	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.210	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	3.300	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	1.000	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.007





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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-6 Dup.*

Sample From: SAMPLE IDENT. 951202052-DUP. WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		3.200	ug/Liter	8260
Toluene		0.900	ug/Liter	8260
Trichloroethane, 1, 1, 1-		1.000	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		1.500	ug/Liter	8260
Trichlorofluoromethane		0.100	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		4.830	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes		0.100	ug/Liter	8260
Xylenes		0.100	ug/Liter	8260



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
 Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
 13715 W. MARKHAM  
 LITTLE ROCK, AR 72215-  
 Job: CONTRACT ANALYSIS. P.O. #749  
 Sample From: SAMPLE IDENT. 951202052-DUP. WATER GRAB

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

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Collected by:  
 CLIENT on 12/05/95 at 9:50  
 Analysis by :  
 SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
 MRS. JOYCE BROWN

13715 W. MARKHAM  
 LITTLE ROCK, AR 72215-

Laboratory Number: R061.007

TRR Reviewed By: K. E. Sorrells, M.S. [45]



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
 Sample preservation and laboratory analysis conducted according to EPA  
 40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
 ADPC&E. Include replication.

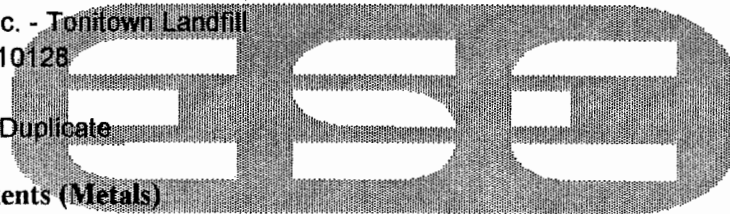
KES = K. E. Sorrells  
 JBS = James B. Sorrells  
 CAS = Cecil A. Sorrells  
 KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
 TJS = Todd J. Sanders  
 MKM = Mark K. McKenzie

Laboratory Number: R061.007      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020052/9512010128  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #6 Duplicate

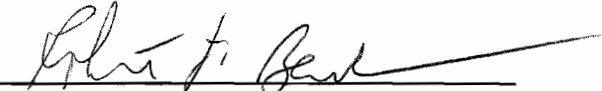
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Appendix I Inorganic Constituents (Metals)**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.070	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

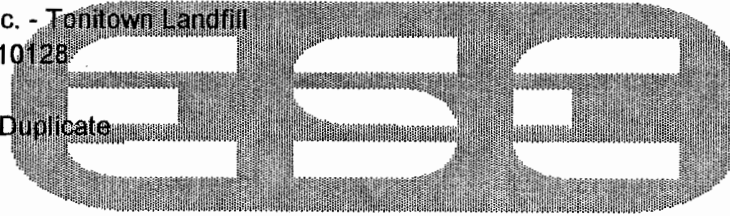
Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
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Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020052/9512010128  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #6 Duplicate

Sample Date : 12/05/95  
 Log-In Date : 12/05/95

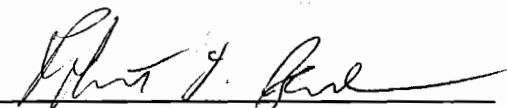
Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	250.0	13-Dec	1500	VLP	SM, 18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	430.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	16.25	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	7.5	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	90.60	0.00	65.9-130.8
Iron	0.11	13-Dec	1745	BET	EPA 236.1	0.05	93.00	2.88	54.6-140.9
Magnesium	2.46	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	2.965	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	216.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	6.98	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	1.108	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	344.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	2.627	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM

LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-7*

Sample From: SAMPLE IDENT. 9512020053 WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene		2.900	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane		0.960	ug/Liter	8260
Chloroform	<	0.210	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-		4.500	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-		0.490	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-		9.100	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride		1.000	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.008



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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-7*

Sample From: SAMPLE IDENT. 9512020053 WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene		0.500	ug/Liter	8260
Toluene		1.000	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene		0.700	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride		3.540	ug/Liter	8260
Xylene, o-		0.200	ug/Liter	8260
m&p-Xylenes		0.200	ug/Liter	8260
Xylenes		0.400	ug/Liter	8260



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 Fax 501-562-7025  
 Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: December 13, 1995  
 Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
 13715 W. MARKHAM  
 LITTLE ROCK, AR 72215-  
 Job: CONTRACT ANALYSIS. P.O. #749  
 Sample From: SAMPLE IDENT. 9512020053 WATER GRAB

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:  
 CLIENT on 12/05/95 at 10:30  
 Analysis by :  
 SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
 MRS. JOYCE BROWN

13715 W. MARKHAM  
 LITTLE ROCK, AR 72215-

Laboratory Number: R061.008

TRR Reviewed By: K. E. Sorrells, M.S. [Signature]





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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.)	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
 Sample preservation and laboratory analysis conducted according to EPA  
 40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
 ADPC&E. Include replication.

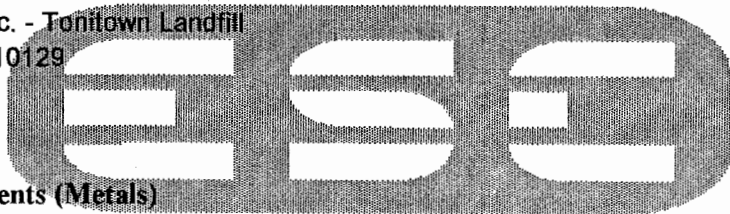
KES = K. E. Sorrells  
 JBS = James B. Sorrells  
 CAS = Cecil A. Sorrells  
 KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
 TJS = Todd J. Sanders  
 MKM = Mark K. McKenzie

Laboratory Number: R061.008      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020053/9512010129  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #7

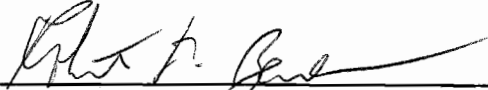
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Appendix I Inorganic Constituents (Metals)**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.127	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

Data Release Authorized By:

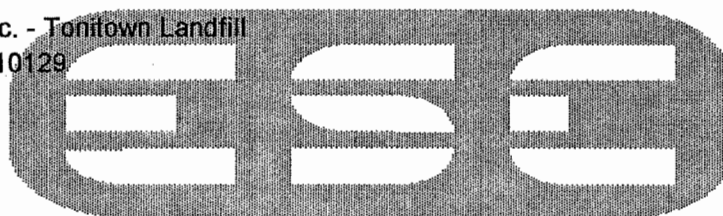
  
 Robert F. Benham, Laboratory Director

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Environmental Services Company, Inc.  
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 Springdale, Arkansas 72764  
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Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020053/9512010129  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #7

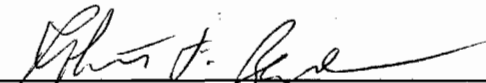
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	390.0	13-Dec	1500	VLP	SM, 18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	460.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	11.25	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	18.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	102.20	0.00	65.9-130.8
Iron	0.63	13-Dec	1745	BET	EPA 236.1	0.05	94.00	2.34	54.6-140.9
Magnesium	2.55	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	0.911	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	2.965	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	267.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	5.16	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	1.198	18-Dec	1420	VLP	EPA 375.4	1.00	84.80	5.83	62.1-135.0
Total Dissolved Solids	472.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	10.750	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*mw-8*

Sample From: SAMPLE IDENT. 9512020054. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.400	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.009



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### LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020054. WATER GRAB. *mw-8*

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene	<	0.130	ug/Liter	8260
Toluene	<	0.050	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene	<	0.130	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride	<	1.180	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes	<	0.090	ug/Liter	8260



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM

LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*MW-8*

Sample From: SAMPLE IDENT. 9512020054. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD

Collected by:  
CLIENT on 12/05/95 at 15:25  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.009

TRR Reviewed By: K. E. Sorrells, M.S. [*KS*]



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

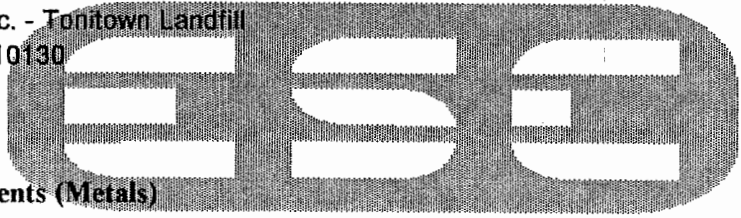
Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.009      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020054/9512010130  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #8

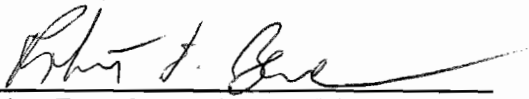


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95

**Parameter : Appendix I Inorganic Constituents (Metals)**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	102.90	0.78	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	95.10	2.34	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	93.40	1.68	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.020	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

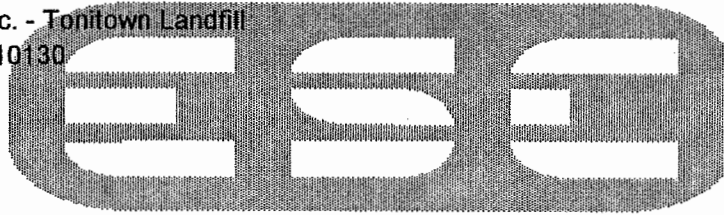
Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 (501) 221-1341 FAX

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX



Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020054/9512010130  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #8

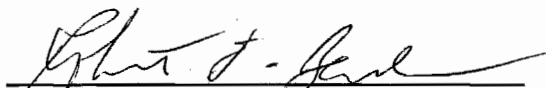
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	220.0	13-Dec	1500	VLP	SM,18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	407.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	2.50	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	<3.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	102.20	0.00	65.9-130.8
Iron	0.14	13-Dec	1745	BET	EPA 236.1	0.05	94.00	2.34	54.6-140.9
Magnesium	2.52	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	<0.05	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	261.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	3.62	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	3.086	18-Dec	1420	VLP	EPA 375.4	1.00	98.10	5.67	62.1-135.0
Total Dissolved Solids	304.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	1.925	19-Dec	1200	RFB	EPA 415.2	1.00	110.60	1.67	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 *mW-10*

Sample From: SAMPLE IDENT. 9512020055. WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.210	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.010



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### LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*MW-10*

Sample From: SAMPLE IDENT. 9512020055. WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene	<	0.130	ug/Liter	8260
Toluene	<	0.050	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene	<	0.130	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride	<	1.180	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes	<	0.090	ug/Liter	8260



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-  
Job: CONTRACT ANALYSIS. P.O. #749  
Sample From: SAMPLE IDENT. 9512020055. WATER GRAB

ANALYTE	RESULT	UNITS	METHOD
---------	--------	-------	--------

Collected by:  
CLIENT on 12/05/95 at 12:30  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.010

TRR Reviewed By: K. E. Sorrells, M.S.



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.)	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

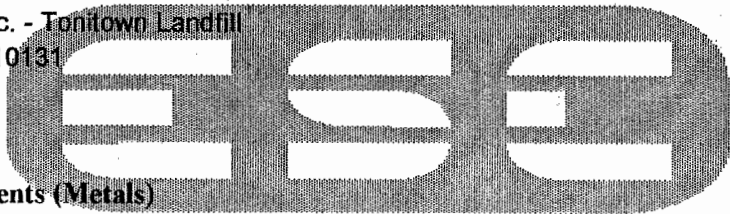
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.010      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020055/9512010131  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #10

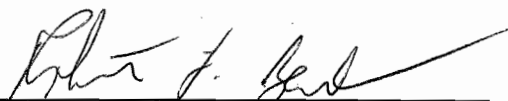
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	94.70	10.88	63.1-134.8
Arsenic	0.0115	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	95.70	1.45	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.80	0.00	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	99.50	8.49	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	107.00	10.45	50.0-150.0
Zinc	0.102	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

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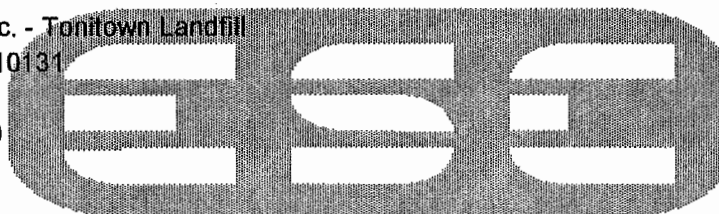
  
 Robert F. Benham, Laboratory Director

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 Springdale, Arkansas 72764  
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Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020055/9512010131  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #10

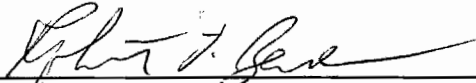
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95



**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	155.0	13-Dec	1500	VLP	SM, 18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	395.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	2.50	15-Dec	1400	VLP	EPA 325.3	1.0	93.00	3.51	78.4-118.3
Chemical Oxygen Demand	<3.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	102.20	0.00	65.9-130.8
Iron	0.38	13-Dec	1745	BET	EPA 236.1	0.05	94.00	2.34	54.6-140.9
Magnesium	9.22	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	94.40	0.53	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	<0.05	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	209.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	3.55	15-Dec	1115	BET	EPA 273.1	1.00	98.00	0.76	53.4-150.0
Sulfate	7.561	18-Dec	1420	VLP	EPA 375.4	1.00	98.10	5.67	62.1-135.0
Total Dissolved Solids	236.0	11-Dec	1000	RFB	EPA 160.1	1.00	N/A	8.25	N/A
Total Organic Carbon	2.808	19-Dec	1200	RFB	EPA 415.2	1.00	97.30	0.32	85.0-115.2

Data Release Authorized By:

  
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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215- *mw-11*

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020056. WATER GRAB.

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	0.700	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Dibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.011





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## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

MN-11

Sample From: SAMPLE IDENT. 9512020056. WATER GRAB.

ANALYTE		RESULT UNITS	METHOD
Methyl iodide	<	0.480 ug/Liter	8260
Methyl isobutyl ketone	<	0.230 ug/Liter	8260
Styrene	<	0.110 ug/Liter	8260
tetrachloroethane, 1, 1, 1, 2-	<	0.120 ug/Liter	8260
tetrachloroethane, 1, 1, 2, 2	<	0.320 ug/Liter	8260
Tetrachloroethylene	<	0.130 ug/Liter	8260
Toluene	<	0.300 ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070 ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190 ug/Liter	8260
Trichloroethylene	<	0.130 ug/Liter	8260
Trichlorofluoromethane	<	0.090 ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180 ug/Liter	8260
Vinyl acetate	<	1.000 ug/Liter	8260
Vinyl chloride	<	1.180 ug/Liter	8260
Xylene, o-	<	0.040 ug/Liter	8260
m&p-Xylenes	<	0.050 ug/Liter	8260
Xylenes	<	0.090 ug/Liter	8260

Laboratory Number: R061.011



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**LABORATORY ANALYSIS**

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020056. WATER GRAB.

ANALYTE	RESULT UNITS	METHOD
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Collected by:  
CLIENT on 12/05/95 at 14:55  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.011

TRR Reviewed By: K. E. Sorrells, M.S. [Signature]



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8002 Stanton Road  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

**QUALITY ASSURANCE**

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.)	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

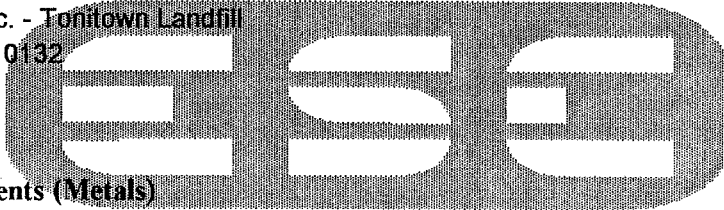
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.011      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020056/9512010132  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #11

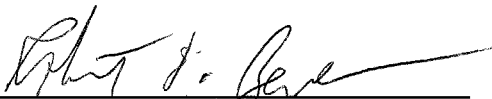
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Appendix I Inorganic Constituents (Metals)**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	97.70	7.65	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	95.70	1.45	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.10	0.62	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	104.30	0.77	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	115.80	0.52	50.0-150.0
Zinc	0.027	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

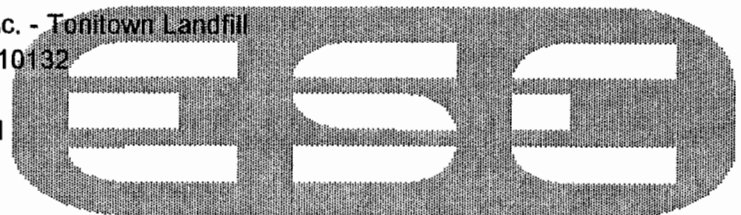
Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 (501) 221-1341 FAX

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020056/9512010132  
 Sample Type : Grab Water  
 Sample Identification: Monitoring Well #11

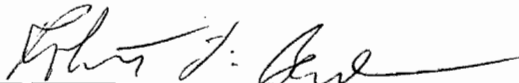


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95

Parameter : Miscellaneous Tests

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	180.0	13-Dec	1500	VLP	SM, 18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	433.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	7.50	15-Dec	1400	VLP	EPA 325.3	1.0	96.90	0.00	78.4-118.3
Chemical Oxygen Demand	3.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	102.20	0.00	65.9-130.8
Iron	0.16	13-Dec	1745	BET	EPA 236.1	0.05	94.00	2.34	54.6-140.9
Magnesium	0.92	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	86.50	3.89	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	2.593	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	159.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	3.37	15-Dec	1115	BET	EPA 273.1	1.00	107.00	2.28	53.4-150.0
Sulfate	2.384	18-Dec	1420	VLP	EPA 375.4	1.00	98.10	5.67	62.1-135.0
Total Dissolved Solids	282.0	12-Dec	930	RFB	EPA 160.1	1.00	N/A	4.26	N/A
Total Organic Carbon	1.595	19-Dec	1200	RFB	EPA 415.2	1.00	97.30	0.32	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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 Little Rock, Arkansas 72211  
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Little Rock, Arkansas 72209

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Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

*Blank*

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020057-EB WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	2.200	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Ibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.190	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.012



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Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

*Blank*

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020057-EB WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Methyl iodide	<	0.480	ug/Liter	8260
Methyl isobutyl ketone	<	0.230	ug/Liter	8260
Styrene	<	0.110	ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120	ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320	ug/Liter	8260
Tetrachloroethylene	<	0.130	ug/Liter	8260
Toluene	<	0.200	ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070	ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190	ug/Liter	8260
Trichloroethylene	<	0.130	ug/Liter	8260
Trichlorofluoromethane	<	0.090	ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180	ug/Liter	8260
Vinyl acetate	<	1.000	ug/Liter	8260
Vinyl chloride	<	1.180	ug/Liter	8260
Xylene, o-	<	0.040	ug/Liter	8260
m&p-Xylenes	<	0.050	ug/Liter	8260
Xylenes	<	0.090	ug/Liter	8260



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Date of Report: December 13, 1995  
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For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020057-EB WATER GRAB

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

Collected by:  
CLIENT on 12/05/95 at 15:45  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.012

TRR Reviewed By: K. E. Sorrells, M.S. [Signature]





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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

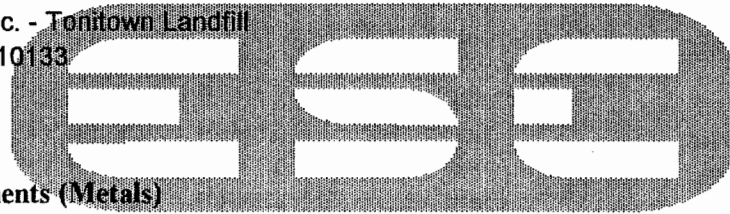
KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.012      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020057/9512010133  
 Sample Type : Grab Water  
 Sample Identification: Equipment Blank

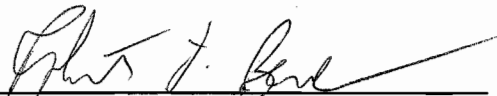
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



Parameter : Appendix I Inorganic Constituents (Metals)

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Antimony	<0.200	12-Dec	1045	BET	EPA 204.1	0.20	97.70	7.65	63.1-134.8
Arsenic	<0.005	14-Dec	1445	BET	EPA 206.2	0.005	107.60	4.42	50.0-149.1
Barium	<0.500	12-Dec	1000	BET	EPA 208.1	0.50	112.00	0.00	56.6-139.3
Beryllium	<0.005	12-Dec	1030	BET	EPA 210.1	0.005	95.70	1.45	66.9-120.1
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Cobalt	<0.05	12-Dec	845	BET	EPA 219.1	0.05	97.10	0.62	74.2-124.2
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	<0.05	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Selenium	<0.005	14-Dec	1800	BET	EPA 270.2	0.005	110.00	0.00	50.0-149.5
Silver	<0.01	13-Dec	1330	BET	EPA 272.1	0.01	97.50	0.82	64.9-130.0
Thallium	<0.10	12-Dec	915	BET	EPA 279.1	0.10	104.30	0.77	66.7-130.5
Vanadium	<0.50	12-Dec	930	BET	EPA 286.1	0.50	115.80	0.52	50.0-150.0
Zinc	0.019	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

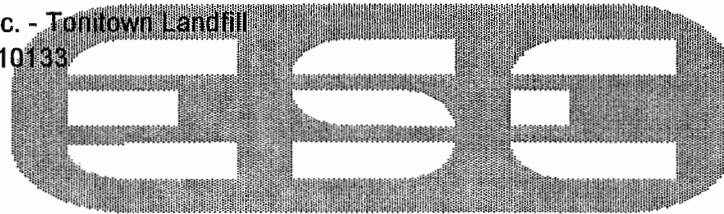
Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
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Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72764  
 (501) 750-1170 (501) 750-1172 FAX

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number : 9512020057/9512010133  
 Sample Type : Grab Water  
 Sample Identification: Equipment Blank

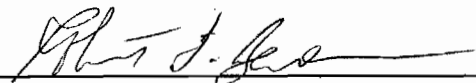


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/19/95

**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Ammonia Nitrogen	<0.10	11-Dec	1700	VLP	EPA 350.2	0.10	96.60	0.00	85.9-107.0
Bicarbonate	5.0	13-Dec	1500	VLP	SM.18th 2320B	1.00	100.00	5.71	50.0-150.0
Calcium	325.0	14-Dec	930	BET	EPA 215.1	1.00	104.50	0.00	50.0-146.0
Chloride	<1.0	15-Dec	1400	VLP	EPA 325.3	1.0	96.90	0.00	78.4-118.3
Chemical Oxygen Demand	3.7	7-Dec	1045	VLP	EPA 410.4	1.00	106.00	0.00	86.7-118.4
Cyanide	<0.02	15-Dec	1148	VLP	EPA 335.2	0.02	102.20	0.00	65.9-130.8
Iron	0.07	13-Dec	1745	BET	EPA 236.1	0.05	94.00	2.34	54.6-140.9
Magnesium	1.65	13-Dec	2200	BET	EPA 242.1	0.50	103.00	0.38	59.3-144.7
Manganese	<0.01	12-Dec	1115	BET	EPA 243.1	0.01	86.50	3.89	59.0-131.3
Mercury	<0.0002	15-Dec	1500	BET	EPA 245.1	0.0002	106.00	3.77	53.0-137.1
Nitrate Nitrogen	1.323	14-Dec	1400	VLP	EPA 353.3	0.05	104.40	0.00	65.1-123.8
Potassium	249.0	14-Dec	830	BET	EPA 258.1	0.50	113.00	1.75	51.2-145.9
Sodium	<1.00	15-Dec	1115	BET	EPA 273.1	1.00	107.00	2.28	53.4-150.0
Sulfate	2.735	18-Dec	1420	VLP	EPA 375.4	1.00	98.10	5.67	62.1-135.0
Total Dissolved Solids	64.0	12-Dec	930	RFB	EPA 160.1	1.00	N/A	4.26	N/A
Total Organic Carbon	1.971	19-Dec	1200	RFB	EPA 415.2	1.00	97.30	0.32	85.0-115.2

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*trip blank*

Sample From: SAMPLE IDENT. 9512020041-B WATER GRAB

ANALYTE		RESULT	UNITS	METHOD
Acetone	<	10.000	ug/Liter	8260
Acrylonitrile	<	0.390	ug/Liter	8260
Benzene	<	0.160	ug/Liter	8260
Bromochloromethane	<	0.270	ug/Liter	8260
Bromodichloromethane	<	0.120	ug/Liter	8260
Bromoform	<	0.300	ug/Liter	8260
Carbon disulfide	<	1.390	ug/Liter	8260
Carbon tetrachloride	<	0.080	ug/Liter	8260
Chlorobenzene	<	0.090	ug/Liter	8260
Chloroethane	<	1.210	ug/Liter	8260
Chloroform	<	2.600	ug/Liter	8260
Dibromochloromethane	<	0.160	ug/Liter	8260
Dibromo-3-chloropropane, 1,2-	<	0.560	ug/Liter	8260
Dibromoethane, 1,2-	<	0.240	ug/Liter	8260
Dichloroethane, 1,2-	<	0.230	ug/Liter	8260
Dichloroethane, 1,1-	<	0.550	ug/Liter	8260
Dichloro-2-butene, trans-1,4-	<	0.170	ug/Liter	8260
Dichlorobenzene, 1,4-	<	0.060	ug/Liter	8260
Dichlorobenzene, 1,2-	<	0.150	ug/Liter	8260
Dichloroethylene, 1,1-	<	0.750	ug/Liter	8260
Dichloroethylene, cis-1,2-	<	0.160	ug/Liter	8260
Dichloroethylene, trans-1,2-	<	0.190	ug/Liter	8260
Dichloropropane, 1,2-	<	0.150	ug/Liter	8260
Dichloropropene, cis-1,3-	<	0.200	ug/Liter	8260
Dichloropropene, trans, 1,3-	<	0.280	ug/Liter	8260
Ethylbenzene	<	0.030	ug/Liter	8260
Hexanone, 2-	<	0.120	ug/Liter	8260
Bromomethane	<	0.660	ug/Liter	8260
Methyl chloride	<	1.440	ug/Liter	8260
Ibromomethane	<	0.300	ug/Liter	8260
Methylene chloride	<	0.700	ug/Liter	8260
Methyl ethyl ketone	<	0.370	ug/Liter	8260

Laboratory Number: R061.013



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

*trip blank*

Sample From: SAMPLE IDENT. 9512020041-B WATER GRAB

ANALYTE		RESULT UNITS	METHOD
Methyl iodide	<	0.480 ug/Liter	8260
Methyl isobutyl ketone	<	0.230 ug/Liter	8260
Styrene	<	0.110 ug/Liter	8260
Tetrachloroethane, 1, 1, 1, 2-	<	0.120 ug/Liter	8260
Tetrachloroethane, 1, 1, 2, 2	<	0.320 ug/Liter	8260
Tetrachloroethylene	<	0.130 ug/Liter	8260
Toluene	<	1.100 ug/Liter	8260
Trichloroethane, 1, 1, 1-	<	0.070 ug/Liter	8260
Trichloroethane, 1, 1, 2-	<	0.190 ug/Liter	8260
Trichloroethylene	<	0.130 ug/Liter	8260
Trichlorofluoromethane	<	0.090 ug/Liter	8260
Trichloropropane, 1, 2, 3-	<	0.180 ug/Liter	8260
Vinyl acetate	<	1.000 ug/Liter	8260
Vinyl chloride	<	1.180 ug/Liter	8260
Xylene, o-	<	0.040 ug/Liter	8260
m&p-Xylenes	<	0.050 ug/Liter	8260
Xylenes	<	0.090 ug/Liter	8260



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LABORATORY ANALYSIS

Date of Report: December 13, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749

Sample From: SAMPLE IDENT. 9512020041-B WATER GRAB

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

---

Collected by:  
CLIENT on 12/04/95 at 18:25  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained.  
See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R061.013

TRR Reviewed By: K. E. Sorrells, M.S. *[Signature]*



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	# IN BAT
Volatiles (Surrogate Avg. JWW		12/08/95	1351	12/09/95	2335	0.01	93.2	24

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R061.013      TRR



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# WEF



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Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

*Leachate # 3*

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS

Sample From: SAMPLE IDENT. 9512020042. LEACHATE GRAB

ANALYTE		RESULT	UNITS	METHOD
Benzene	<	0.001	mg/Liter	8260
Carbon tetrachloride	<	0.001	mg/Liter	8260
Chlorobenzene	<	0.001	mg/Liter	8260
Chloroform	<	0.001	mg/Liter	8260
Dichlorobenzene, 1,4-	<	0.001	mg/Liter	8260
Dichloroethane, 1,2-	<	0.001	mg/Liter	8260
Dichloroethylene, 1,1-	<	0.001	mg/Liter	8260
Methyl ethyl ketone	<	0.001	mg/Liter	8260
Tetrachloroethylene	<	0.001	mg/Liter	8260
Trichloroethylene	<	0.001	mg/Liter	8260
Vinyl chloride	<	0.001	mg/Liter	8260
Cresol, m-	<	0.050	mg/Liter	8270
Cresol, o-	<	0.050	mg/Liter	8270
Cresol, p-	<	0.050	mg/Liter	8270
Dinitrotoluene, 2,4-	<	0.050	mg/Liter	8270
Heptachlor	<	0.008	mg/Liter	8080
Heptachlor epoxide	<	0.008	mg/Liter	8080
Hexachlorobenzene	<	0.050	mg/Liter	8270
Hexachlorobutadiene	<	0.001	mg/Liter	8260
Hexachloroethane	<	0.050	mg/Liter	8270
Nitrobenzene	<	0.050	mg/Liter	8270
Pentachlorophenol	<	0.250	mg/Liter	8270
Pyridine	<	0.250	mg/Liter	8270
Trichlorophenol, 2, 4, 5-	<	0.050	mg/Liter	8270
Trichlorophenol, 2, 4, 6-	<	0.050	mg/Liter	8270
2,4,5-TP Silvex	<	0.002	mg/Liter	8150
Solids	<	0.500	percent	1311
Methoxychlor	<	0.100	mg/Liter	8080
Lindane	<	0.010	mg/Liter	8080
Endrin	<	0.010	mg/Liter	8080
2,4 D	<	0.002	mg/Liter	8150
Toxaphene	<	0.100	mg/Liter	8080

Laboratory Number: R060.001





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LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS  
Sample From: SAMPLE IDENT. 9512020042. LEACHATE GRAB

*Leachate #3*

ANALYTE		RESULT UNITS	METHOD
Chlordane	<	0.010 mg/Liter	8080
Corrosivity pH >12.5 or <2		8.000 units	9040
Cresol	<	0.150 mg/Liter	8270

Collected by:  
RFB/OJ/DM on 12/05/95 at 16:55  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R060.001

*K. E. Sorrells*  
TRR Reviewed By: K. E. Sorrells, M.S. [9.2]



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## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Corrosivity pH >12.5 or	KESII	12/08/95	1100	12/08/95	1145	0.00	0.0	3
Herbicides (Surrogate)	KES/M	12/13/95	1640	12/14/95	1330	7.64	67.6	5
Pesticides/PCB's (Surr.)	KES/M	12/12/95	2359	12/14/95	602	0.22	101.5	5
Solids	KESII	12/08/95	955	12/08/95	1045	0.00	0.0	3
Semi-Volatiles (Surr. Avg)	KES/M	12/13/95	1603	12/14/95	1034	16.06	50.9	5
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

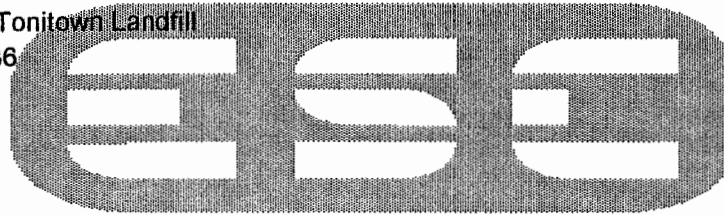
Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R060.001 TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number 9512020042/9512010136  
 Sample Type : Grab Leachate  
 Sample Identificatio Site #3

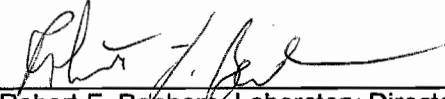


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95

**Parameter : TCLP Metals**

Target Compound	Result (mg/L)	Regulatory Levels (mg/L)	Analysis Date	Analysis Time	Analyst	MDL (mg/L)	Method Reference	% Recovery Spike	% Recovery Matrix Spike	RPD MS/MSD	Matrix Spike Recovery Limits
Arsenic	0.0115	5.00	14-Dec	1445	BET	0.005	SW846 7060	98.10	127.10	7.75	50.0-146.6
Barium	<0.50	100.00	12-Dec	1000	BET	0.50	SW846 7080	106.00	106.00	5.56	50.8-142.4
Cadmium	<0.005	1.00	13-Dec	1615	BET	0.005	SW846 7130	86.40	86.40	1.86	74.3-120.7
Chromium	<0.05	5.00	13-Dec	2045	BET	0.05	SW846 7190	93.10	93.10	0.47	61.5-134.1
Lead	<0.10	5.00	13-Dec	1830	BET	0.10	SW846 7420	93.40	93.40	1.30	66.4-130.4
Mercury	<0.0002	0.20	15-Dec	1500	BET	0.0002	SW846 7470	94.30	94.30	10.17	54.2-143.5
Selenium	<0.005	1.00	14-Dec	1800	BET	0.005	SW846 7741	113.70	119.20	3.27	51.3-144.7
Silver	0.015	5.00	13-Dec	1330	BET	0.01	SW846 7760	95.00	95.00	2.95	69.3-125.6

Data Release Authorized By:

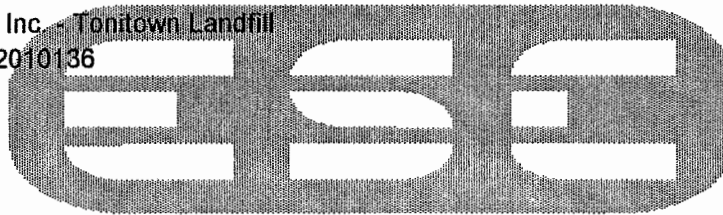
  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
 (501) 221-2565 FAX (501) 221-1341  
 (501) 221-2565 FAX (501) 221-1341

Environmental Services Company, Inc.  
 Northwest Arkansas Branch  
 1107 Century  
 Springdale, Arkansas 72762  
 (501) 750-1170 FAX (501) 750-1172

Client Name : Sunray Services, Inc. Tonitown Landfill  
 Lab Control Number : 9512020042/9512010136  
 Sample Type : Grab Leachate  
 Sample Identification: Site #3

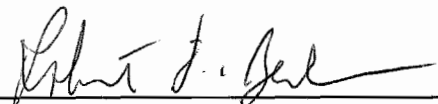
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Biochemical Oxygen Demand	67	6-Dec	2000	VLP	EPA 405.1	1.00	86.80	1.78	85.0-115.0
Chemical Oxygen Demand	637.0	7-Dec	1045	VLP	EPA 410.4	1.00	91.40	0.00	86.7-118.4
Chloride	125.0	15-Dec	1400	VLP	EPA 325.3	10.00	96.90	0.00	78.4-118.3
pH (S.U.)	6.89	5-Dec	1830	BTM	EPA 150.1	0.02	N/A	0.24	N/A
Total Dissolved Solids	1976.0	12-Dec	930	RFB	EPA 160.1	1.00	N/A	4.26	N/A
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	92.10	0.00	73.0-125.4
Copper	0.022	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	0.217	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Zinc	0.452	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

Environmental Services Company, Inc.  
 Corporate Headquarters  
 13715 West Markham  
 Little Rock, Arkansas 72211  
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Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

*Leachate #4*

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS  
Sample From: SAMPLE IDENT. 9512020044. LEACHATE GRAB

ANALYTE		RESULT	UNITS	METHOD
Cresol, m-	<	0.050	mg/Liter	8270
Cresol, o-	<	0.050	mg/Liter	8270
Cresol, p-	<	0.050	mg/Liter	8270
initrotoluene, 2,4-	<	0.050	mg/Liter	8270
Heptachlor	<	0.008	mg/Liter	8080
Heptachlor epoxide	<	0.008	mg/Liter	8080
Hexachlorobenzene	<	0.050	mg/Liter	8270
Hexachlorobutadiene	<	0.001	mg/Liter	8260
Hexachloroethane	<	0.050	mg/Liter	8270
Nitrobenzene	<	0.050	mg/Liter	8270
Pentachlorophenol	<	0.250	mg/Liter	8270
Pyridine	<	0.250	mg/Liter	8270
Trichlorophenol, 2, 4, 5-	<	0.050	mg/Liter	8270
Trichlorophenol, 2, 4, 6-	<	0.050	mg/Liter	8270
Benzene	<	0.001	mg/Liter	8260
Carbon tetrachloride	<	0.001	mg/Liter	8260
Chlorobenzene	<	0.001	mg/Liter	8260
Chloroform	<	0.001	mg/Liter	8260
Dichlorobenzene, 1,4-	<	0.001	mg/Liter	8260
Dichloroethane, 1,2-	<	0.001	mg/Liter	8260
Dichloroethylene, 1,1-	<	0.001	mg/Liter	8260
Methyl ethyl ketone	<	0.001	mg/Liter	8260
Tetrachloroethylene	<	0.001	mg/Liter	8260
Trichloroethylene	<	0.001	mg/Liter	8260
Vinyl chloride	<	0.001	mg/Liter	8260
2,4,5-TP Silvex	<	0.002	mg/Liter	8150
Solids	<	0.500	percent	1311
Methoxychlor	<	0.100	mg/Liter	8080
indane	<	0.010	mg/Liter	8080
ndrin	<	0.010	mg/Liter	8080
2,4 D	<	0.002	mg/Liter	8150
Toxaphene	<	0.100	mg/Liter	8080

Laboratory Number: R060.002



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Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS  
Sample From: SAMPLE IDENT. 9512020044. LEACHATE GRAB

*Leachate #4*

ANALYTE		RESULT UNITS	METHOD
Chlordane	<	0.010 mg/Liter	8080
Corrosivity pH >12.5 or <2		7.800 units	9040
Cresol	<	0.150 mg/Liter	8270

Collected by:  
RFB/DJ/DM on 12/04/95 at 16:00  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R060.002

TRR Reviewed By: K. E. Sorrells, M.S. [4]



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Toll Free 1-800-331-8139

## QUALITY ASSURANCE

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Corrosivity pH >12.5 or	KESII	12/08/95	1100	12/08/95	1145	0.00	0.0	3
Herbicides (Surrogate)	KES/M	12/13/95	1640	12/14/95	1330	7.64	67.6	5
Pesticides/PCB's (Surr.)	KES/M	12/12/95	2359	12/14/95	602	0.22	101.5	5
Solids	KESII	12/08/95	955	12/08/95	1045	0.00	0.0	3
Semi-Volatiles (Surr. Avg)	KES/M	12/13/95	1603	12/14/95	1034	16.06	50.9	5
Volatiles (Surrogate Avg.	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

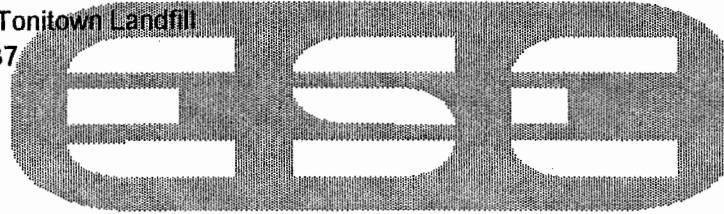
Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R060.002      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
Lab Control Number 9512020044/9512010137  
Sample Type : Grab Leachate  
Sample Identification Site #4

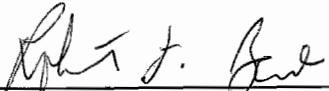


Sample Date : 12/05/95  
Log-In Date : 12/05/95  
Report Date : 12/18/95

**Parameter : TCLP Metals**

Target Compound	Result (mg/L)	Regulatory Levels (mg/L)	Analysis Date	Analysis Time	Analyst	MDL (mg/L)	Method Reference	% Recovery Spike	% Recovery Matrix Spike	RPD MS/MSD	Matrix Spike Recovery Limits
Arsenic	<0.005	5.00	14-Dec	1445	BET	0.005	SW846 7060	98.10	105.50	7.75	50.0-146.6
Barium	0.7	100.00	12-Dec	1000	BET	0.50	SW846 7080	106.00	98.00	5.56	50.8-142.4
Cadmium	<0.005	1.00	13-Dec	1615	BET	0.005	SW846 7130	86.40	88.10	1.86	74.3-120.7
Chromium	<0.05	5.00	13-Dec	2045	BET	0.05	SW846 7190	93.10	92.50	0.47	61.5-134.1
Lead	<0.10	5.00	13-Dec	1830	BET	0.10	SW846 7420	93.40	85.30	1.30	66.4-130.4
Mercury	0.0002	0.20	15-Dec	1500	BET	0.0002	SW846 7470	94.30	147.00	10.17	54.2-143.5
Selenium	<0.005	1.00	14-Dec	1800	BET	0.005	SW846 7741	113.70	122.00	3.27	51.3-144.7
Silver	0.081	5.00	13-Dec	1330	BET	0.01	SW846 7760	95.00	92.20	2.95	69.3-125.6

Data Release Authorized By:

  
Robert F. Benham, Laboratory Director

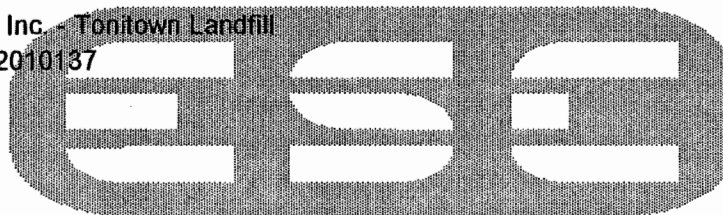
Environmental Services Company, Inc.  
Corporate Headquarters  
13715 West Markham  
Little Rock, Arkansas 72211  
(501) 221-2565 FAX (501) 221-1341  
(501) 221-2565 FAX (501) 221-1341

Environmental Services Company, Inc.  
Northwest Arkansas Branch  
1107 Century  
Springdale, Arkansas 72762  
(501) 750-1170 FAX (501) 750-1172



Client Name : Sunray Services, Inc. Tonitown Landfill  
 Lab Control Number : 9512020044/9512010137  
 Sample Type : Grab Leachate  
 Sample Identification: Site #4

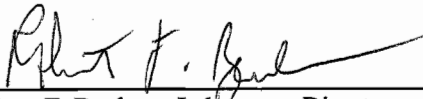
Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95



**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Biochemical Oxygen Demand	67	6-Dec	2000	VLP	EPA 405.1	1.00	86.80	1.78	85.0-115.0
Chemical Oxygen Demand	637.0	7-Dec	1045	VLP	EPA 410.4	1.00	91.40	0.00	86.7-118.4
Chloride	125.0	15-Dec	1400	VLP	EPA 325.3	10.00	96.90	0.00	78.4-118.3
pH (S.U.)	6.89	5-Dec	1830	BTM	EPA 150.1	0.02	N/A	0.24	N/A
Total Dissolved Solids	1976.0	12-Dec	930	RFB	EPA 160.1	1.00	N/A	4.26	N/A
Cadmium	<0.005	13-Dec	1615	BET	EPA 213.1	0.005	95.20	0.53	84.5-109.7
Chromium	<0.05	13-Dec	2045	BET	EPA 218.1	0.05	93.80	0.00	73.0-125.4
Copper	<0.02	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	<0.10	13-Dec	1830	BET	EPA 239.1	0.10	92.50	1.50	72.0-124.3
Nickel	0.105	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Zinc	0.143	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

Data Release Authorized By:

  
 Robert F. Benham, Laboratory Director

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LABORATORY AND FIELD SERVICES**

**WEF**



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ECOLOGISTS  
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PLANNERS

8002 Stanton Road  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS  
Sample From: SAMPLE IDENT. 9512020045. LEACHATE GRAB

*Transfer Station  
Leachate*

ANALYTE		RESULT UNITS	METHOD
2,4,5-TP Silvex	<	0.002 mg/Liter	8150
Solids		21.800 percent	1311
Methoxychlor	<	0.100 mg/Liter	8080
Endane	<	0.010 mg/Liter	8080
Heptachlor epoxide	<	0.008 mg/Liter	8080
Heptachlor	<	0.008 mg/Liter	8080
Endrin	<	0.010 mg/Liter	8080
2,4 D		0.031 mg/Liter	8150
Toxaphene	<	0.100 mg/Liter	8080
Chlordane	<	0.010 mg/Liter	8080
Corrosivity pH >12.5 or <2		4.200 units	9040
Cresol, m-	<	0.050 mg/Liter	8270
Cresol, o-	<	0.050 mg/Liter	8270
Cresol, p-	<	0.050 mg/Liter	8270
Dinitrotoluene, 2,4-	<	0.050 mg/Liter	8270
Hexachlorobenzene	<	0.050 mg/Liter	8270
Hexachlorobutadiene	<	0.001 mg/Liter	8260
Hexachloroethane	<	0.050 mg/Liter	8270
Nitrobenzene	<	0.050 mg/Liter	8270
Pentachlorophenol	<	0.250 mg/Liter	8270
Pyridine	<	0.250 mg/Liter	8270
Trichlorophenol, 2, 4, 5-	<	0.050 mg/Liter	8270
Trichlorophenol, 2, 4, 6-	<	0.050 mg/Liter	8270
Benzene	<	0.001 mg/Liter	8260
Carbon tetrachloride	<	0.001 mg/Liter	8260
Chlorobenzene	<	0.001 mg/Liter	8260
Chloroform		0.023 mg/Liter	8260
Dichlorobenzene, 1,4-	<	0.001 mg/Liter	8260
Dichloroethane, 1,2-	<	0.001 mg/Liter	8260
Dichloroethylene, 1,1-	<	0.001 mg/Liter	8260
Methyl ethyl ketone		0.116 mg/Liter	8260
Tetrachloroethylene	<	0.001 mg/Liter	8260

Laboratory Number: R060.003



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LABORATORY ANALYSIS

Date of Report: December 14, 1995  
Date Received : December 7, 1995

For: ENVIRONMENTAL SERVICES COMPANY, INC.  
13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

*Transfer Station  
Leachate*

Job: CONTRACT ANALYSIS. P.O. #749 TCLP ORGANICS  
Sample From: SAMPLE IDENT. 9512020045. LEACHATE GRAB

ANALYTE		RESULT UNITS	METHOD
Trichloroethylene	<	0.001 mg/Liter	8260
Vinyl chloride	<	0.001 mg/Liter	8260
Cresol	<	0.150 mg/Liter	8270

Collected by:  
RFB/DJ/DM on 12/05/95 at 16:25  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 261. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Calibration records maintained. See Attached.

Copies to:  
MRS. JOYCE BROWN

13715 W. MARKHAM  
LITTLE ROCK, AR 72215-

Laboratory Number: R060.003

*K. E. Sorrells*

TRR Reviewed By: K. E. Sorrells, M.S. [ *KE* ]



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**QUALITY ASSURANCE**

December 7, 1995

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Corrosivity pH >12.5 or	KESII	12/08/95	1100	12/08/95	1145	0.00	0.0	3
Herbicides (Surrogate)	KES/M	12/13/95	1640	12/14/95	1330	7.64	67.6	5
Pesticides/PCB's (Surr.)	KES/M	12/12/95	2359	12/14/95	602	0.22	101.5	5
Solids	KESII	12/08/95	955	12/08/95	1045	0.00	0.0	3
Semi-Volatiles (Surr. Avg)	KES/M	12/13/95	1603	12/14/95	1034	16.06	50.9	5
Volatiles (Surrogate Avg)	JWW	12/08/95	1351	12/09/95	2335	0.01	93.2	24

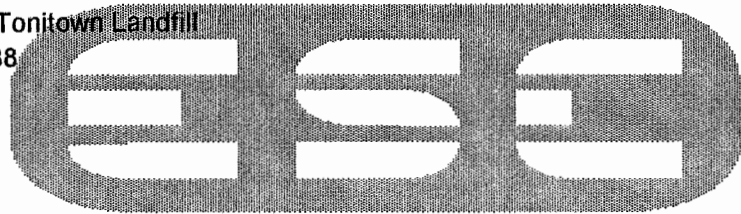
Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 261 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
KRL = Karl E. Sorrells

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
MKM = Mark K. McKenzie

Laboratory Number: R060.003      TRR

Client Name : Sunray Services, Inc. - Tonitown Landfill  
 Lab Control Number 9512020045/9512010138  
 Sample Type : Grab Leachate  
 Sample Identificatio Transfer Station

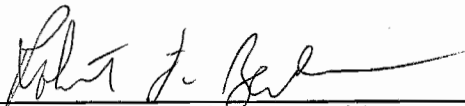


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95

**Parameter : TCLP Metals**

Target Compound	Result (mg/L)	Regulatory Levels (mg/L)	Analysis Date	Analysis Time	Analyst	MDL (mg/L)	Method Reference	% Recovery Spike	% Recovery Matrix Spike	RPD MS/MSD	Matrix Spike Recovery Limits
Arsenic	0.0401	5.00	14-Dec	1445	BET	0.005	SW846 7060	98.10	105.50	7.75	50.0-146.6
Barium	0.58	100.00	12-Dec	1000	BET	0.50	SW846 7080	106.00	98.00	5.56	50.8-142.4
Cadmium	0.008	1.00	13-Dec	1615	BET	0.005	SW846 7130	86.40	86.60	1.86	74.3-120.7
Chromium	0.301	5.00	13-Dec	2045	BET	0.05	SW846 7190	93.10	117.50	0.47	61.5-134.1
Lead	0.233	5.00	13-Dec	1830	BET	0.10	SW846 7420	93.40	101.20	1.30	66.4-130.4
Mercury	0.0007	0.20	15-Dec	1500	BET	0.0002	SW846 7470	94.30	105.40	10.17	54.2-143.5
Selenium	<0.005	1.00	14-Dec	1800	BET	0.005	SW846 7741	113.70	121.70	3.27	51.3-144.7
Silver	0.318	5.00	13-Dec	1330	BET	0.01	SW846 7760	95.00	88.50	2.95	69.3-125.6

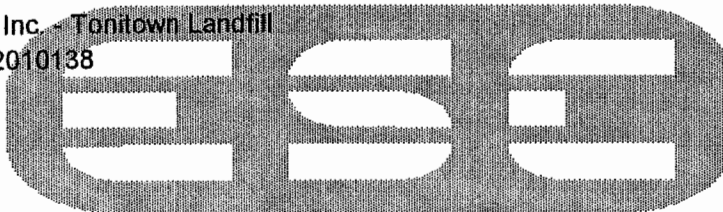
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 Robert F. Benham, Laboratory Director

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 1107 Century  
 Springdale, Arkansas 72762  
 (501) 750-1170 FAX (501) 750-1172

Client Name : Sunray Services, Inc. Tonitown Landfill  
 Lab Control Number : 9512020045/9512010138  
 Sample Type : Grab Leachate  
 Sample Identification: Transfer Station

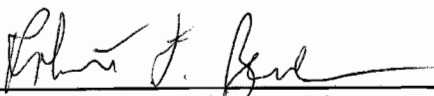


Sample Date : 12/05/95  
 Log-In Date : 12/05/95  
 Report Date : 12/18/95

**Parameter : Miscellaneous Tests**

Target Compound	Result (mg/L)	Analysis Date	Analysis Time	Analyst	Method Reference	MDL (mg/L)	% Recovery (Matrix Spike)	RPD (MS/MSD)	Matrix Spike Recovery Limits
Biochemical Oxygen Demand	15173	6-Dec	2000	VLP	EPA 405.1	1.00	86.80	1.78	85.0-115.0
Chemical Oxygen Demand	65400.0	7-Dec	1045	VLP	EPA 410.4	1.00	91.40	0.00	86.7-118.4
Chloride	1125.0	15-Dec	1400	VLP	EPA 325.3	10.00	96.90	0.00	78.4-118.3
pH (S.U.)	4.22	5-Dec	1830	BTM	EPA 150.1	0.02	N/A	0.24	N/A
Total Dissolved Solids	15736.0	12-Dec	930	RFB	EPA 160.1	1.00	N/A	4.26	N/A
Cadmium	0.011	13-Dec	1615	BET	EPA 213.1	0.005	92.70	0.75	84.5-109.7
Chromium	0.36	13-Dec	2045	BET	EPA 218.1	0.05	93.80	0.00	73.0-125.4
Copper	0.607	13-Dec	1630	BET	EPA 220.1	0.02	94.90	0.95	73.9-117.3
Lead	0.307	13-Dec	1830	BET	EPA 239.1	0.10	98.00	2.32	72.0-124.3
Nickel	0.553	13-Dec	2000	BET	EPA 249.1	0.05	105.50	7.48	72.9-121.9
Zinc	14.500	13-Dec	1500	BET	EPA 289.1	0.01	111.10	3.82	72.0-119.3

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Little Rock, AR 72211

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# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

1107 Century Ave.

Springdale, AR 72762

Tel. (501) 750-1170 Fax (501) 750-1172

Client Information		Project Information				Requested Parameters																																						
Company Name <u>Sunray Services, Inc.</u> Address : <u>P. O. Box 1310</u> <u>Springdale, AR 72765</u> Telephone : <u>751-7024</u> FAX : <u>751-7924</u>		Permit / Project # : _____ Purchase Order # : _____ Sampler Name(s) : <u>Sidney L. Brackeen</u> and Signature(s) : <u>Sidney L. Brackeen</u>				<table border="1"> <tr> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">App. I Volatiles</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>								App. I Volatiles																X														
App. I Volatiles																																												
	X																																											
Client Number: <u>1123</u>		Sample Identification		Sample Collection		Sample Containers																																						
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative																																				
<u>Trip Blanks</u>	<u>1210091</u>	<u>12-4-95</u>	<u>1745</u>	<u>Grab</u>	<u>Water</u>	<u>Glass</u>	<u>40ml</u>	<u>HCL</u>																																				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)																																								
<u>Sidney L. Brackeen</u>		<u>12-4-95</u>	<u>1800</u>	<u>Robert F. Benhan</u>																																								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)																																								
<u>Robert F. Benhan</u>		<u>12/6/95</u>	<u>0800</u>																																									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)																																								
				<u>Sidney L. Brackeen</u>																																								
Comm s :		Custody Seals <input type="checkbox"/> Used? <input type="checkbox"/> Intact? Turn-around <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special This Document is Page Number <u>1</u> of <u>1</u>																																										

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 13715 West Markham  
 Little Rock, AR 72211  
 Tel. (501) 221-2565 Fax (501) 221-1341



# Chain of Custody

Environmental Services Co., Inc.  
 Northwest Arkansas Branch  
 1107 Century Ave.  
 Springdale, AR 72762  
 Tel. (501) 750-1170 Fax (501) 750-1172

Client Information		Project Information				Requested Parameters																																																																																													
Company Name <u>Sunray Services, Inc.</u>		Permit / Project # : _____				<table border="1"> <tr> <td>TCLP Volatiles</td> <td>TCLP Semi-Volatiles</td> <td>TCLP Metals</td> <td>TCLP Pesticides</td> <td>TCLP Herbicides</td> <td>BOD, TDS, Chloride</td> <td>COD</td> <td>Zn, Cu, Ni, Pb, Cr, Cd</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	TCLP Pesticides	TCLP Herbicides	BOD, TDS, Chloride	COD	Zn, Cu, Ni, Pb, Cr, Cd															X	X	X	X																							X																									X										
TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	TCLP Pesticides	TCLP Herbicides	BOD, TDS, Chloride											COD	Zn, Cu, Ni, Pb, Cr, Cd																																																																																		
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Address : <u>P. O. Box 1310</u>		Purchase Order # : _____																																																																																																	
<u>Springdale, AR 72765</u>		Sampler Name(s) : <u>Robert F. Berhan</u>																																																																																																	
Telephone : <u>751-7024</u>		and Signature(s) : <u>David Johnston</u>																																																																																																	
FAX : <u>751-7924</u>		<u>DAW NSC Johnson</u>																																																																																																	
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Sample Identification		Sample Collection				Sample Containers																																																																																													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative																																																																																											
Site #3	16-0042	12/5/95	1655	Grab	Leachate	Glass	40ml	HLC	X																																																																																										
						Glass	1qt	None	X X X X																																																																																										
						Plastic	1/2gal	H <sub>2</sub> SO <sub>4</sub>	X																																																																																										
						Plastic	1/2gal	HNO <sub>3</sub>	X																																																																																										
						Plastic	1/2gal	None	X																																																																																										
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<u>Robert F. Berhan</u>		12/6/95	0800					Turn-around <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special																																																																																											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				This Document is Page Number <u>1</u> of <u>1</u>																																																																																											
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				<u>David Johnston</u>																																																																																															
Comments																																																																																																			



Environmental Services Co., Inc.

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13715 West Markham  
Little Rock, AR 72211

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# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch  
1107 Century Ave.  
Springdale, AR 72762

Tel. (501) 750-1170 Fax (501) 750-1172

Client Information				Project Information				Requested Parameters									
Company Name <u>Sunray Services, Inc.</u>				Permit / Project # : _____				TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	TCLP Pesticides	TCLP Herbicides	BOD, TDS, Chloride	COD	Zn, Cu, Ni, Pb, Cr, Cd		
Address : <u>P. O. Box 1310</u>				Purchase Order # : _____													
<u>Springdale, AR 72765</u>				Sampler Name(s) : <u>Robert F. Berham</u> <u>David Johnston</u> <u>David McCallum</u>				TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	TCLP Pesticides	TCLP Herbicides	BOD, TDS, Chloride	COD	Zn, Cu, Ni, Pb, Cr, Cd		
Telephone : <u>751-7024</u>				and Signature(s) : <u>Robert F. Berham</u> <u>David Johnston</u> <u>David McCallum</u>													
FAX : <u>751-7924</u>				Client Number : <u>1123</u>													
Sample Identification		Sample Collection				Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative									
Class #4	12-0044	12/5/95	1600	Grab	Leachate	Glass	40ml	HLC	X								
I		I	I	I	I	Glass	1qt	None		X	X	X	X				
						Plastic	1/2gal	H <sub>2</sub> SO <sub>4</sub>						X			
						Plastic	1/2gal	HNO <sub>3</sub>							X		
						Plastic	1/2gal	None				X					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Custody Seals <input type="checkbox"/> Used? <input type="checkbox"/> Intact?									
<u>Robert F. Berham</u> Robert F. Berham		12/6/95	0800					Turn-around <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				This Document is Page Number <u>1</u> of <u>1</u>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)													
				<u>Robert F. Berham</u>													
Comments																	

Environmental Services Co., Inc.  
 Corporate Office  
 13715 West Markham  
 Little Rock, AR 72211  
 Tel. (501) 221-2565 Fax (501) 221-1341

# Chain of Custody

Environmental Services Co., Inc.  
 Northwest Arkansas Branch  
 1107 Century Ave.  
 Springdale, AR 72762  
 Tel. (501)750-1170 Fax (501) 750-1172

Client Information		Project Information				Requested Parameters																																																																																									
Company Name <u>Sunray Services, Inc.</u>		Permit / Project # : _____				<table border="1"> <tr> <td rowspan="4">TCIP Volatiles</td> <td rowspan="4">TCIP Semi-Volatiles</td> <td rowspan="4">TCIP Metals</td> <td rowspan="4">TCIP Pesticides</td> <td rowspan="4">TCIP Herbicides</td> <td rowspan="4">BOD, TDS, Chloride</td> <td rowspan="4">COD</td> <td rowspan="4">Zn, Cu, Ni, Pb, Cr, Cd</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										TCIP Volatiles	TCIP Semi-Volatiles	TCIP Metals	TCIP Pesticides	TCIP Herbicides	BOD, TDS, Chloride	COD	Zn, Cu, Ni, Pb, Cr, Cd																																																																								
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Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative																																																																																							
<u>Transfer Station</u>	<u>1710049</u>	<u>12/6/95</u>	<u>1625</u>	<u>Grab</u>	<u>Leachate</u>	<u>Glass</u>	<u>40ml</u>	<u>HLC</u>	<u>X</u>																																																																																						
						<u>Glass</u>	<u>1qt</u>	<u>None</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																																																																		
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<u>Robert F. Benhan</u>		<u>12/6/95</u>	<u>0900</u>	<u>Robert F. Benhan</u>																																																																																											
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# Chain of Custody

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 Northwest Arkansas Branch  
 1107 Century Ave.  
 Springdale, AR 72762  
 Tel. (501) 750-1170 Fax (501) 750-1172

Client Information				Project Information				Requested Parameters														
Company Name <u>Sunray Services, Inc.</u>				Permit / Project # : _____				App. I Volatiles App. I Metals Ca Fe Hg Mg Mn K Na Bicarbonate, Sulfate, Chloride, TDS NH <sub>3</sub> -N, COD, TOC, NO <sub>3</sub> -N CN														
Address : <u>P. O. Box 1310</u>				Purchase Order # : _____																		
Telephone : <u>Springdale, AR 72765</u>				Sampler Name(s) : <u>David Johnston</u>																		
FAX : <u>751-7024</u>				and Signature(s) : <u>David Johnston</u>																		
Client Number : <u>1123</u>				<u>Robert F. Benham</u>																		
Sample Identification		Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative														
<u>MW #1</u>	<u>170046</u>	<u>12/15/95</u>	<u>0830</u>	<u>Grab</u>	<u>Water</u>	<u>Glass</u>	<u>40ml</u>	<u>HCL</u>	<input checked="" type="checkbox"/>													
						<u>Plastic</u>	<u>1/2gal</u>	<u>HNO<sub>3</sub></u>	<input checked="" type="checkbox"/>													
						<u>Plastic</u>	<u>1/2gal</u>	<u>None</u>	<input checked="" type="checkbox"/>													
						<u>Plastic</u>	<u>1/2gal</u>	<u>H<sub>2</sub>SO<sub>4</sub></u>	<input checked="" type="checkbox"/>													
						<u>Plastic</u>	<u>1/2gal</u>	<u>NaOH</u>	<input checked="" type="checkbox"/>													
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Custody Seals <input type="checkbox"/> Used? <input type="checkbox"/> Intact? <input type="checkbox"/>														
<u>Robert F. Benham</u>		<u>12/16/95</u>	<u>0850</u>	<u>Robert F. Benham</u>				Turn-around <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special														
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)																		
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)				This Document is Page Number <u>1</u> of <u>1</u>														
				<u>Robert F. Benham</u>																		
Comments :																						

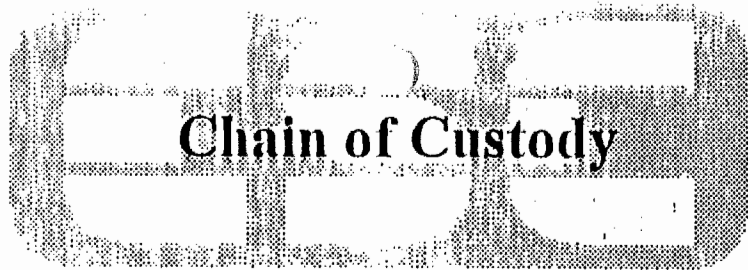
Environmental Services Co., Inc.

Corporate Office

13715 West Markham

Little Rock, AR 72211

Tel. (501) 221-2565 Fax (501) 221-1341



# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

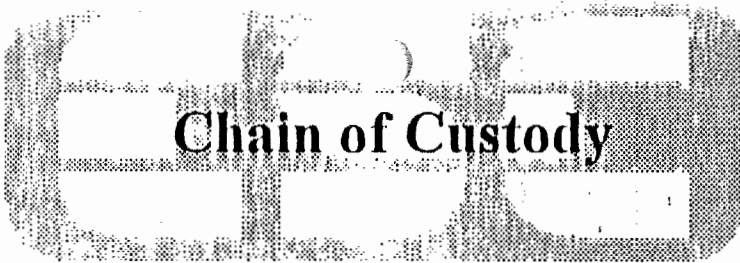
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Company Name <u>Sunray Services, Inc.</u> Address: <u>P. O. Box 1310</u> <u>Springdale, AR 72765</u> Telephone: <u>751-7024</u> FAX: <u>751-7924</u>				Permit / Project #: _____ Purchase Order #: _____ Sampler Name(s): <u>Robert F. Berhan</u> <u>David Johnston</u> <u>[Signature]</u> and Signature(s): <u>[Signature]</u> <u>[Signature]</u>				<table border="1"> <tr> <td>App. I Volatiles</td> <td>App. I Metals</td> <td>Ca</td> <td>Fe</td> <td>Hg</td> <td>Mg</td> <td>Mn</td> <td>K</td> <td>Na</td> <td>Bicarbonate</td> <td>Sulfate</td> <td>Chloride</td> <td>TDS</td> <td>NH<sub>3</sub>-N</td> <td>COD</td> <td>TOC</td> <td>NO<sub>2</sub>-N</td> <td>CN</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> </table>								App. I Volatiles	App. I Metals	Ca	Fe	Hg	Mg	Mn	K	Na	Bicarbonate	Sulfate	Chloride	TDS	NH <sub>3</sub> -N	COD	TOC	NO <sub>2</sub> -N	CN	X																			X	X							X				X																						X
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<u>MW# 2</u>	<u>12-0047</u>	<u>12/6/95</u>	<u>140.5</u>	<u>Grab</u>	<u>Water</u>	<u>Glass</u>	<u>40ml</u>	<u>HCL</u>																																																																															
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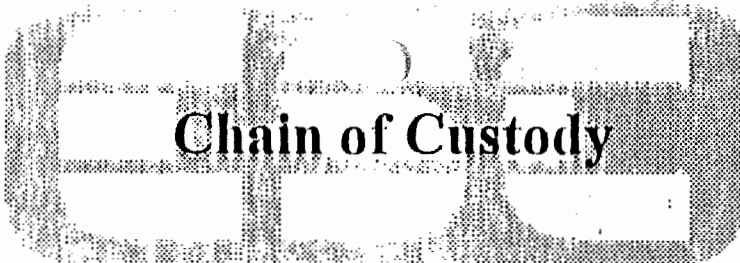
# Chain of Custody

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Corporate Office

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# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

1107 Century Ave.

Springdale, AR 72762

Tel. (501) 750-1170 Fax (501) 750-1172

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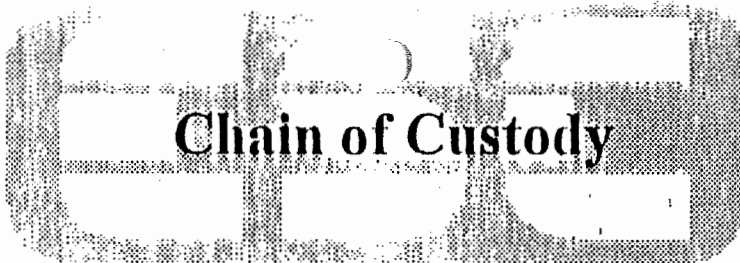
# Chain of Custody

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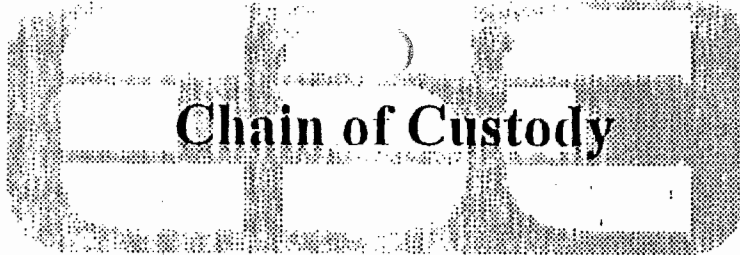
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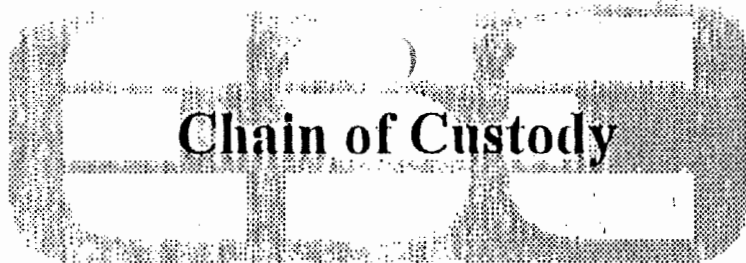
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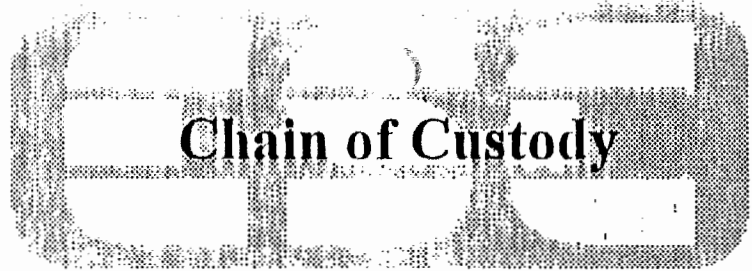


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# Chain of Custody

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Box 1310</u> <u>Springdale, AR 72765</u> Telephone: <u>751-7024</u> FAX: <u>750-7924</u> Client Number: <u>1123</u>			Permit / Project #: _____ Purchase Order #: _____ Sampler Name(s): <u>RFB/DJ/DM</u> and Signature(s): _____				<table border="1"> <tr> 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Environmental Services Co., Inc.

Corporate Office

13715 West Markham

Little Rock, AR 72211

Tel. (501) 221-2565 Fax (501) 221-1341

# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

1107 Century Ave.

Springdale, AR 72762

Tel. (501)750-1170 Fax (501) 750-1172

Client Information				Project Information					Requested Parameters									
Company Name <u>Sunray Services, Inc.</u>				Permit / Project # : _____					TCIP Pb, Cd, Hg, Ba TCIP As, Se, Ag, Cr Zn, Cu, Ni, Pb, Cr, Cd SO <sub>3</sub> S SO <sub>4</sub> SO <sub>10</sub> SO <sub>17</sub> SO <sub>12</sub> SO <sub>8</sub> SO <sub>6</sub> I.A 4.0 I.C 45.11 SO <sub>15</sub> 2.A 2.0 2.C									
Address : <u>P. O. Box 1310</u>				Purchase Order # : _____														
<u>Springdale, AR 72765</u>				Sampler Name(s) : <u>RFB/OL/DM</u>														
Telephone : <u>751-7024</u>				and Signature(s) : _____														
FAX : <u>751-7924</u>																		
Client Number: <u>1123</u>																		
Sample Identification		Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative										
9512020042 #3	9512010136	12-5	1455	Grab	Leachate	Glass	1qt	None										
						Plastic	1qt	Nitric										
9512020044 #4	9512010137		1600			Glass	1qt	None										
						Plastic	1qt	Nitric										
9512020045 TS	9512010138		1625			Glass	1qt	None										
						Plastic	1qt	Nitric										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)					Results due by 12-15-95									
<i>Widney Brasher</i> Sidney L Brasher		12-6-95	1830	<i>Seane Seane</i>					Custody Seals <input type="checkbox"/> Used? <input checked="" type="checkbox"/> Intact?									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)					Results due by 12-15-95									
<i>Seane Seane</i>		12/7	1020	<i>BE Tomblin BE Tomblin</i>					Turn-around <input type="checkbox"/> Regular <input checked="" type="checkbox"/> Special									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)					This Document is Page Number ___ of ___									
<i>Seane Seane</i>				<i>BE Tomblin BE Tomblin</i>														
Comments : Special reporting format to be used.																		



Environmental Services Co., Inc.

Corporate Office

13715 West Markham

Little Rock, AR 72211

Tel. (501) 221-2565 Fax (501) 221-1341

# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

1107 Century Ave.

Springdale, AR 72762

Tel. (501) 750-1170 Fax (501) 750-1172

Client Information				Project Information				Requested Parameters										
Company Name <u>ESC-Springdale</u> Address : <u>1107 Century</u> <u>Springdale, AR 72762</u> Telephone : <u>750-1170</u> FAX : <u>750-1172</u> Client Number: <u>1123</u>				Permit / Project # : _____ Purchase Order # : <u>749</u> Sampler Name(s) : <u>RFB/DJ/DM</u> and Signature(s) : _____														
Sample Identification		Sample Collection			Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	App. I Volatiles									
<u>9512020046</u>		<u>12-5</u>	<u>0830</u>	<u>Grab</u>	<u>Water</u>	<u>Glass</u>	<u>40ml</u>	<u>HCL</u>	<u>X</u>									
<u>047</u>			<u>1405</u>						<u>X</u>									
<u>048</u>			<u>1425</u>						<u>X</u>									
<u>049</u>			<u>1200</u>						<u>X</u>									
<u>050</u>			<u>0915</u>						<u>X</u>									
<u>051</u>			<u>0950</u>						<u>X</u>									
<u>052-Dup</u>			<u>0950</u>						<u>X</u>									
<u>053</u>			<u>1030</u>						<u>X</u>									
<u>054</u>			<u>1525</u>						<u>X</u>									
<u>055</u>			<u>1230</u>						<u>X</u>									
<u>056</u>			<u>1455</u>						<u>X</u>									
<u>057-EB</u>			<u>1545</u>						<u>X</u>									
<u>041-B</u>		<u>12-4</u>	<u>1825</u>						<u>X</u>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Custody Seals <input type="checkbox"/> Used? <input type="checkbox"/> Intact? Results due by 12-15-95 Turn-around <input type="checkbox"/> Regular <input checked="" type="checkbox"/> Special										
<u>Sidney A. Brackeen, Sidney Brackeen</u>		<u>12-6-95</u>	<u>1830</u>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				This Document is Page Number ___ of ___										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)														
Comm: _____																		

R060.001-003

Environmental Services Co., Inc.

Corporate Office

13715 West Markham

Little Rock, AR 72211

Tel. (501) 221-2565 Fax (501) 221-1341

# Chain of Custody

Environmental Services Co., Inc.

Northwest Arkansas Branch

1107 Century Ave.

Springdale, AR 72762

Tel. (501) 750-1170 Fax (501) 750-1172

Client Information				Project Information					Requested Parameters																																					
Company Name <u>ESC-Springdale</u> Address : <u>1107 Century</u> <u>Springdale, AR 72762</u> Telephone : <u>750-1170</u> FAX : <u>750-1172</u> Client Number: <u>1123</u>				Permit / Project # : _____ Purchase Order # : <u>749</u> Sampler Name(s) : <u>RFB/DJ/DM</u> and Signature(s) : _____					<table border="1"> <tr> <td rowspan="2">TCLP Volatiles</td> <td rowspan="2">TCLP Semi-Volatiles</td> <td rowspan="2">TCLP Herbicides</td> <td rowspan="2">TCLP Pesticides</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>								TCLP Volatiles	TCLP Semi-Volatiles	TCLP Herbicides	TCLP Pesticides																										
TCLP Volatiles	TCLP Semi-Volatiles	TCLP Herbicides	TCLP Pesticides																																											
Sample Identification		Sample Collection				Sample Containers																																								
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative																																						
001 9512020042		12-5	11:55	Grab	Leachate	Glass	40ml (2)	HCL	X																																					
001						Glass	1ltr (2)	None		X	X	X																																		
002 9512020044			11:00				40ml (2)	HCL	X																																					
002							1ltr (2)	None		X	X	X																																		
003 9512020045			11:25				40ml (2)	HCL	X																																					
003							1ltr (2)	None		X	X	X																																		
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)					Results due by 12-15-95																																					
<u>Sidney A. Brackeen</u> Sidney Brackeen		12-6-95	1830	_____					Custody Seals <input type="checkbox"/> Used? <input type="checkbox"/> Intact?																																					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)					Turn-around <input type="checkbox"/> Regular <input checked="" type="checkbox"/> Special																																					
_____				_____					This Document is Page Number ___ of ___																																					
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Laboratory By: (Signature and Printed Name)																																										
_____				<u>T.H.T. Smith</u> 12/7/95 1000																																										
Comments :																																														

# GROUNDWATER MONITORING SAMPLING RECORD

## GEC

PROJECT Sunray  
 PROJECT NUMBER 19439  
 SAMPLING LOCATION Tantitown MW-1  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 12:30 0830  
 WEATHER Clear + cold

### MONITOR WELL CONDITION:

LOCK  UNLOCKED   
 WELL NUMBER: MW-1  
 CASING CONDITION: Good - pad cracked  
 DATUM FOR WATER DEPTH MEASUREMENT: TOL

1. DECON FIELD EQUIPMENT Yes  
 2. WATER DEPTH Pre-purge: 76.15 Pre-sample: 76.19  
 3. TOTAL DEPTH OF WELL 125'  
 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

### 5. WELL EVACUATION:

VOLUME OF WATER IN WELL BORE: 6" well 72 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 72 gal  
 ODOR: None  
 APPEARANCE: Clear

### 6. SAMPLE EXTRACTION METHOD: Disposable boiler

### 7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>12.8 °C</u>	<u>6.12</u>	<u>729 uS/cm</u>
<u>13.8 °C</u>	<u>6.02</u>	<u>737</u>
<u>14.3 14.5</u>	<u>5.97 6.00</u>	<u>746 748</u>

8. FIELD SAMPLE FILTRATION: None  
 9. FIELD SAMPLE PRESERVATION: By lab  
 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

GROUNDWATER MONITORING  
SAMPLING RECORD

GEC

PROJECT Sunray  
PROJECT NUMBER 9439  
SAMPLING LOCATION Tontitown MW-2  
SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
TIME OF SAMPLING 1405  
WEATHER Clear, windy & cool  
MONITOR WELL CONDITION:  
LOCK  UNLOCKED   
WELL NUMBER: MW-2  
CASING CONDITION: Good - pad cracked  
DATUM FOR WATER DEPTH MEASUREMENT: \_\_\_\_\_

1. DECON FIELD EQUIPMENT Yes  
2. WATER DEPTH Pre-purge: 37.10 Pre-sample: 37.25  
3. TOTAL DEPTH OF WELL 80'  
4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
ODOR None

5. WELL EVACUATION:  
VOLUME OF WATER IN WELL BORE: 6" well 63 gal  
EVACUATION METHOD: Dedicated submersible pump  
VOLUME REMOVED: 63 gal  
ODOR: None  
APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>15.2 °C</u>	<u>7.89</u>	<u>236 us/cm</u>
<u>15.4</u>	<u>7.72</u>	<u>229</u>
<u>15.0 14.8</u>	<u>7.65 7.65</u>	<u>226 224</u>

8. FIELD SAMPLE FILTRATION: None  
9. FIELD SAMPLE PRESERVATION: By lab  
10. CONTAINER HANDLING: By lab & GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

GEC

PROJECT Suncay  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tantitown MW-3  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 1425  
 WEATHER Clear windy + cool  
 MONITOR WELL CONDITION:

LOCK  UNLOCKED   
 WELL NUMBER: MW-3  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TOC

1. DECON FIELD EQUIPMENT Yes  
 2. WATER DEPTH Pre-purge: 48.00 Pre-sample: 48:00  
 3. TOTAL DEPTH OF WELL 58'  
 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

5. WELL EVACUATION:  
 VOLUME OF WATER IN WELL BORE: 4" well 6.5 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 50 gal  
 ODOR: None  
 APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>13.9°C</u>	<u>5.87</u>	<u>317 µm/cm</u>
<u>14.2</u>	<u>5.76</u>	<u>314</u>
<u>13.8 13.4"</u>	<u>5.75 5.71</u>	<u>310 312</u>

8. FIELD SAMPLE FILTRATION: None  
 9. FIELD SAMPLE PRESERVATION: By lab  
 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

GROUNDWATER MONITORING  
SAMPLING RECORD

GEC

PROJECT Sunny  
PROJECT NUMBER 9439  
SAMPLING LOCATION Tontitown MW-4  
SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
TIME OF SAMPLING 1200  
WEATHER Clear windy & cool

MONITOR WELL CONDITION:

LOCK  UNLOCKED   
WELL NUMBER: MW-4  
CASING CONDITION: Good  
DATUM FOR WATER DEPTH MEASUREMENT: TOC

1. DECON FIELD EQUIPMENT Yes  
2. WATER DEPTH Pre-purge: 39.25 Pre-sample: 39.30  
3. TOTAL DEPTH OF WELL 50'  
4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
ODOR None

5. WELL EVACUATION:

VOLUME OF WATER IN WELL BORE: 4" well 7 gal  
EVACUATION METHOD: Dedicated submersible pump  
VOLUME REMOVED: 7 gal  
ODOR: None  
APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>16.0 °C</u>	<u>6.09</u>	<u>810 µS/cm</u>
<u>15.3</u>	<u>6.06</u>	<u>800</u>
<u>15.1 15.2</u>	<u>6.07 6.01</u>	<u>803 801</u>

8. FIELD SAMPLE FILTRATION: None  
9. FIELD SAMPLE PRESERVATION: By lab  
10. CONTAINER HANDLING: By lab & GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

GEC

PROJECT Sunday  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tont. town MW-5  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 0915  
 WEATHER Clear & cool

**MONITOR WELL CONDITION:**

LOCK  UNLOCKED   
 WELL NUMBER: MW-5  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TOC

- 1. DECON FIELD EQUIPMENT Yes
- 2. WATER DEPTH Pre-purge: 71.40 Pre-sample: 71.35
- 3. TOTAL DEPTH OF WELL 110'
- 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

**5. WELL EVACUATION:**

VOLUME OF WATER IN WELL BORE: 6" well 57 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 57 gal  
 ODOR: None  
 APPEARANCE: Clear

**6. SAMPLE EXTRACTION METHOD:** Disposable bailer

**7. FIELD MEASUREMENTS:**

TEMPERATURE	pH	CONDUCTANCE
<u>13.9°C</u>	<u>6.62</u>	<u>579</u>
<u>14.1</u>	<u>6.53</u>	<u>577</u>
<u>14.4 14.6</u>	<u>6.48 6.45</u>	<u>579 582</u>

- 8. FIELD SAMPLE FILTRATION: None
- 9. FIELD SAMPLE PRESERVATION: By lab
- 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Suncay  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tontitown MW-6  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 0950  
 WEATHER Clear, windy + cool  
 MONITOR WELL CONDITION:

LOCK  UNLOCKED   
 WELL NUMBER: MW-6  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TOL

1. DECON FIELD EQUIPMENT Yes
2. WATER DEPTH Pre-purge: 28.30 Pre-sample: 28.95
3. TOTAL DEPTH OF WELL 100'
4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

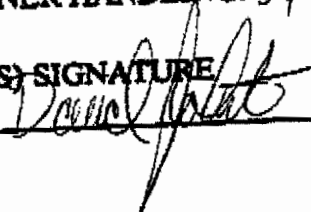
5. WELL EVACUATION:
  - VOLUME OF WATER IN WELL BORE: 6" well 105 gal
  - EVACUATION METHOD: Dedicated submersible pump
  - VOLUME REMOVED: 310 gal
  - ODOR: None
  - APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable boiler

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>14.1 °C</u>	<u>5.82</u>	<u>427 µS/cm</u>
<u>14.9</u>	<u>5.91</u>	<u>473</u>
<u>14.7 15.0</u>	<u>5.91 5.95</u>	<u>468 484</u>

8. FIELD SAMPLE FILTRATION: None
9. FIELD SAMPLE PRESERVATION: By lab
10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE  DATE 12/5/95



# GROUNDWATER MONITORING SAMPLING RECORD

## GEC

PROJECT Sunday  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tontitown MW-7  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 1030  
 WEATHER Clear, windy & cool  
 MONITOR WELL CONDITION:  
 LOCK  UNLOCKED   
 WELL NUMBER: MW-7  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TQC

1. DECON FIELD EQUIPMENT Yes  
 2. WATER DEPTH Pce-purge: 109.45 Pce-sample: 109.55  
 3. TOTAL DEPTH OF WELL 146'  
 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

5. WELL EVACUATION:  
 VOLUME OF WATER IN WELL BORE: 4" well 24 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 75 gal  
 ODOR: None  
 APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>13.2 °C</u>	<u>6.34</u>	<u>569 µS/cm</u>
<u>13.8 °C</u>	<u>6.38</u>	<u>575</u>
<u>14.0 H<sub>2</sub>O</u>	<u>6.32 6.21</u>	<u>580 578</u>

8. FIELD SAMPLE FILTRATION: None

9. FIELD SAMPLE PRESERVATION: By lab

10. CONTAINER HANDLING: By lab & GEC

SAMPLER(S) SIGNATURE \_\_\_\_\_ DATE 12/5/95

*[Handwritten Signature]*

# GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Suncay  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tantitown MW-8  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING \_\_\_\_\_  
 WEATHER Clear, windy + cool  
 MONITOR WELL CONDITION:  
 LOCK  UNLOCKED \_\_\_\_\_  
 WELL NUMBER: MW-8  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TOC

1. DECON FIELD EQUIPMENT Yes  
 2. WATER DEPTH Pre-purge: 35.80 Pre-sample: 36.15  
 3. TOTAL DEPTH OF WELL 70'  
 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

5. WELL EVACUATION:  
 VOLUME OF WATER IN WELL BORE: 6" well 50 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 50 gal  
 ODOR: None  
 APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

<u>TEMPERATURE</u>	<u>pH</u>	<u>CONDUCTANCE</u>
<u>13.0 °C</u>	<u>7.31</u>	<u>374 µS/cm</u>
<u>13.5</u>	<u>7.16</u>	<u>377</u>
<u>13.5 14.0</u>	<u>7.14 7.09</u>	<u>378 382</u>

8. FIELD SAMPLE FILTRATION: None  
 9. FIELD SAMPLE PRESERVATION: By lab  
 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE  DATE 12/5/95

## GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Suncay  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tontitown MW-10  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 1230  
 WEATHER Clear, windy & cool

**MONITOR WELL CONDITION:**

LOCK  UNLOCKED   
 WELL NUMBER: MW-10  
 CASING CONDITION: Good  
 DATUM FOR WATER DEPTH MEASUREMENT: TOC

1. DECON FIELD EQUIPMENT Yes  
 2. WATER DEPTH Pre-purge: 48.70 Pre-sample: 55.70  
 3. TOTAL DEPTH OF WELL 85'  
 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE Clear  
 ODOR None

**5. WELL EVACUATION:**

VOLUME OF WATER IN WELL BORE: 4" well 24 gal  
 EVACUATION METHOD: Dedicated submersible pump  
 VOLUME REMOVED: 24 gal  
 ODOR: None  
 APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable boiler

**7. FIELD MEASUREMENTS:**

<u>TEMPERATURE</u>	<u>pH</u>	<u>CONDUCTANCE</u>
<u>12.9</u>	<u>7.71</u>	<u>267 <math>\mu S/cm</math></u>
<u>13.2</u>	<u>7.61</u>	<u>267</u>
<u>13.4 13.3</u>	<u>7.55 7.52</u>	<u>268 268</u>

8. FIELD SAMPLE FILTRATION: None  
 9. FIELD SAMPLE PRESERVATION: By lab  
 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE *[Signature]* DATE 12/5/95

## GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Suncay  
 PROJECT NUMBER 19439  
 SAMPLING LOCATION Tantitown MW-11  
 SAMPLING DATE Purge: 12-4-95 Sample: 12-5-95  
 TIME OF SAMPLING 1455  
 WEATHER Clear windy + cool  
 MONITOR WELL CONDITION:

LOCK \_\_\_\_\_ UNLOCKED ✓

WELL NUMBER: MW-11

CASING CONDITION: Protective casing hinge needs to be replaced

DATUM FOR WATER DEPTH MEASUREMENT: TOC

1. DECON FIELD EQUIPMENT Yes

2. WATER DEPTH Pre-purge: 59.65 Pre-sample: 59.75

3. TOTAL DEPTH OF WELL 110'

4. WATER CONDITION BEFORE WELL PURGING:

APPEARANCE Clear

ODOR None

5. WELL EVACUATION:

VOLUME OF WATER IN WELL BORE: 4" well 33gal

EVACUATION METHOD: Dedicated submersible pump

VOLUME REMOVED: 33gal

ODOR: None

APPEARANCE: Clear

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>12.9°C</u>	<u>7.38</u>	<u>340 us/cm</u>
<u>13.6</u>	<u>7.26</u>	<u>352</u>
<u>13.9 14.2</u>	<u>7.19 7.17</u>	<u>352 355</u>

8. FIELD SAMPLE FILTRATION: None

9. FIELD SAMPLE PRESERVATION: By lab

10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE [Signature] DATE 12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

## GEC

PROJECT Suncay  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tontitown Site 4 Leachate Tank  
 SAMPLING DATE 12-5-95  
 TIME OF SAMPLING Day  
 WEATHER Clear, windy + cool  
 MONITOR WELL CONDITION:

LOCK \_\_\_\_\_ UNLOCKED \_\_\_\_\_  
 WELL NUMBER: \_\_\_\_\_  
 CASING CONDITION: \_\_\_\_\_  
 DATUM FOR WATER DEPTH MEASUREMENT: \_\_\_\_\_

- 1. DECON FIELD EQUIPMENT \_\_\_\_\_
- 2. WATER DEPTH Not enough leachate for sample
- 3. TOTAL DEPTH OF WELL \_\_\_\_\_
- 4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE \_\_\_\_\_  
 ODOR \_\_\_\_\_

- 5. WELL EVACUATION:
- VOLUME OF WATER IN WELL BORE: \_\_\_\_\_
- EVACUATION METHOD: \_\_\_\_\_
- VOLUME REMOVED: \_\_\_\_\_
- ODOR: \_\_\_\_\_
- APPEARANCE: \_\_\_\_\_

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

<u>TEMPERATURE</u>	<u>pH</u>	<u>CONDUCTANCE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

- 8. FIELD SAMPLE FILTRATION: None
- 9. FIELD SAMPLE PRESERVATION: By lab
- 10. CONTAINER HANDLING: By lab + GEC

SAMPLER (S) SIGNATURE

*[Handwritten Signature]*

DATE

12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Sunray  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tentitown Class IV Leachate Tank  
 SAMPLING DATE 12-5-95  
 TIME OF SAMPLING 1600  
 WEATHER Clear, windy + cool  
 MONITOR WELL CONDITION:

LOCK \_\_\_\_\_ UNLOCKED \_\_\_\_\_  
 WELL NUMBER: \_\_\_\_\_  
 CASING CONDITION: \_\_\_\_\_  
 DATUM FOR WATER DEPTH MEASUREMENT: \_\_\_\_\_

- 1. DECON FIELD EQUIPMENT \_\_\_\_\_
- 2. WATER DEPTH \_\_\_\_\_
- 3. TOTAL DEPTH OF WELL \_\_\_\_\_
- 4. WATER CONDITION BEFORE WELL PURGING

    APPEARANCE \_\_\_\_\_  
 ODOR \_\_\_\_\_

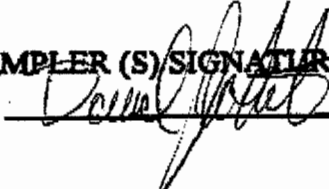
- 5. WELL EVACUATION:
- VOLUME OF WATER IN WELL BORE: \_\_\_\_\_
- EVACUATION METHOD: \_\_\_\_\_
- VOLUME REMOVED: \_\_\_\_\_

        ODOR: H<sub>2</sub>S  
 APPEARANCE: Dark gray

- 6. SAMPLE EXTRACTION METHOD: Disposable bailer
- 7. FIELD MEASUREMENTS:

<u>TEMPERATURE</u>	<u>pH</u>	<u>CONDUCTANCE</u>
<u>9.6</u>	<u>7.21</u>	<u>1645</u>

- 8. FIELD SAMPLE FILTRATION: None
- 9. FIELD SAMPLE PRESERVATION: By lab
- 10. CONTAINER HANDLING: By lab + GEC

SAMPLER (S) SIGNATURE \_\_\_\_\_ DATE 12/5/95  


## GROUNDWATER MONITORING SAMPLING RECORD

**GEC**

PROJECT Sunray  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tonlitown Transfer Station Leachate Tank  
 SAMPLING DATE 12-5-95  
 TIME OF SAMPLING 1625  
 WEATHER Clear, windy + cool

**MONITOR WELL CONDITION:**

LOCK \_\_\_\_\_ UNLOCKED \_\_\_\_\_  
 WELL NUMBER: \_\_\_\_\_  
 CASING CONDITION: \_\_\_\_\_  
 DATUM FOR WATER DEPTH MEASUREMENT: \_\_\_\_\_

- 1. DECON FIELD EQUIPMENT \_\_\_\_\_
- 2. WATER DEPTH \_\_\_\_\_
- 3. TOTAL DEPTH OF WELL \_\_\_\_\_
- 4. WATER CONDITION BEFORE WELL PURGING

    APPEARANCE \_\_\_\_\_  
 ODOR \_\_\_\_\_

- 5. WELL EVACUATION:
- VOLUME OF WATER IN WELL BORE: \_\_\_\_\_
- EVACUATION METHOD: \_\_\_\_\_
- VOLUME REMOVED: \_\_\_\_\_

        ODOR: Yes


        APPEARANCE: Light brown to brown - oily

- 6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS: \_\_\_\_\_

<u>TEMPERATURE</u>	<u>pH</u>	<u>CONDUCTANCE</u>
<u>9.7</u>	<u>4.62</u>	<u>1930</u>

- 8. FIELD SAMPLE FILTRATION: None
- 9. FIELD SAMPLE PRESERVATION: By lab
- 10. CONTAINER HANDLING: By lab + GEC

SAMPLER(S) SIGNATURE  DATE 12/5/95

# GROUNDWATER MONITORING SAMPLING RECORD

## GEC

PROJECT Sunny  
 PROJECT NUMBER 9439  
 SAMPLING LOCATION Tantitown Site 3 Leachate Tank  
 SAMPLING DATE 12-5-95  
 TIME OF SAMPLING 1655  
 WEATHER Clear, windy + cool

MONITOR WELL CONDITION:  
 LOCK \_\_\_\_\_ UNLOCKED \_\_\_\_\_  
 WELL NUMBER: \_\_\_\_\_  
 CASING CONDITION: \_\_\_\_\_  
 DATUM FOR WATER DEPTH MEASUREMENT: \_\_\_\_\_

1. DECON FIELD EQUIPMENT \_\_\_\_\_

2. WATER DEPTH \_\_\_\_\_

3. TOTAL DEPTH OF WELL \_\_\_\_\_

4. WATER CONDITION BEFORE WELL PURGING

APPEARANCE \_\_\_\_\_

ODOR \_\_\_\_\_

5. WELL EVACUATION:

VOLUME OF WATER IN WELL BORE: \_\_\_\_\_

EVACUATION METHOD: \_\_\_\_\_

VOLUME REMOVED: \_\_\_\_\_

ODOR: H2S

APPEARANCE: Dinky

6. SAMPLE EXTRACTION METHOD: Disposable bailer

7. FIELD MEASUREMENTS:

TEMPERATURE	pH	CONDUCTANCE
<u>11.6</u>	<u>8.06</u>	<u>3090</u>
_____	_____	_____
_____	_____	_____

8. FIELD SAMPLE FILTRATION: None

9. FIELD SAMPLE PRESERVATION: By lab

10. CONTAINER HANDLING: By lab + GEC

SAMPLER (S) SIGNATURE [Signature] DATE 12/5/95