

40612

DEP Form # 82-522.600(11)
Form Title <u>GROUND WATER MONITORING</u>
REPORT
Effective Date _____
DEP Application No. _____

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT

Rule 82-522.600(11)

PART I GENERAL INFORMATION

1. Facility Name Hardee County Solid Waste Disposal Facility

2. Address P.O. Box 246

3. City Wauchula, FL Zip 33873

4. Telephone Number (941) 773-5089

5. The GMS Identification Number 4025C30001

6. DEP Permit Number S025-214306

7. Authorized Representative Name Bruce Cummings

8. Address 10405 US 27 South

9. City Sebring, FL Zip 33870

10. Telephone Number (941) 655-4022

11. Type of Discharge _____

12. Method of Discharge _____

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and its attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date 11/26/88 Signature Bruce Cummings for Hardee County BOCC
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

1. Sample Organization Comp QAP # 880516

2. Analytical Lab Comp QAP #/HRS Certification # 880516, E85458

3. *Comp QAP #/HRS Certification # E84098

4. Lab Name Short Environmental Laboratories, Inc.

5. Address 10405 US 27 South, Sebring, FL 33870

6. Phone Number (941) 655-4022

685 Airport Road
Wauchula, FL 33873
(941) 773-5089
Fax (941) 773-3907

Hardee County Solid Waste Department

January 29, 1998

Department of Environmental Protections
Attention: Allison Amram, Environmental Specialist III
Waste Management Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Dear Allison:

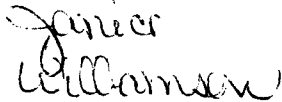
RECEIVED
FEB 4 1998
Solid Waste Section

Submitted for your review are the following:

- Bi-annual Groundwater Sampling
- Annual Leachate Sampling
- Updated Q.A. Plan

Please feel free to contact me should you have any question or concerns.

Sincerely,



Janice Williamson
Executive Secretary/Recycling Coordinator

Cc: Chongman Lee – DEP Tallahassee, Maureen Mauriello – P.B.S. & J. – Winter Park, Andy Maddox – COW – Waste Water Treatment Plant (Leachate Only)



Printed on recycled paper

PART III ANALYTICAL RESULTS

(5222055.20N)

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1135

Test Site ID #: 4025A14569

Report Period: 07/01/97 to 12/31/97

Well Name: MW-1

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: [] Background
 [] Intermediate
 [x] Compliance
 [] Other

Groundwater Elevation (MSL): 83.77 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1135	181. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1135	4.75 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1135	3.2 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1135	18.8 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1135	22.7 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1135	Color NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	0.27 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	34. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	9.62 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	0.05 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	14. mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	260. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	0.007 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.002 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	0.006 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1135

Test Site ID #: 4025A14569

Report Period: 07/01/97 to 12/31/97

Well Name: MW-1

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 83.77 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	0.65 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility CMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1135

Test Site ID #: 4025A14569

Report Period: 07/01/97 to 12/31/97

Well Name: MW-1 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 83.77 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	2.87 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 0950Test Site ID #: 4025A14570Report Period: 07/01/97 to 12/31/97Well Name: MW-2Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ OtherGroundwater Elevation (MSL): 81.89 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 0950	282. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 0950	6.32 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 0950	6.2 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 0950	19.5 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 0950	22.5 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 0950	None NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	0.11 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	14. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	3.88 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	< 0.02 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	9.2 mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	230. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	< 0.005 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.007 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	< 0.002 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 0950Test Site ID #: 4025A14570Report Period: 07/01/97 to 12/31/97Well Name: MW-2Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ OtherGroundwater Elevation (MSL): 81.89 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	0.88 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 0950

Test Site ID #: 4025A14570

Report Period: 07/01/97 to 12/31/97

Well Name: MW-2 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 81.89 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1330

Test Site ID #: 4025A14571

Report Period: 07/01/97 to 12/31/97

Well Name: MW-3

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: [] Background
[] Intermediate
[x] Compliance
[] Other

Groundwater Elevation (MSL): 84.25 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1330	87. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1330	5.35 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1330	3.8 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1330	44.2 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1330	23.9 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1330	Color NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	< 0.04 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	4.3 mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	3.38 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	< 0.02 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	2.6 mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	108. mg/L	1. mg/L

Appendix I - Inorganic

001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	< 0.005 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.005 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	0.009 mg/L	0.002 mg/L

Appendix I - Organic

081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1330Test Site ID #: 4025A14571Report Period: 07/01/97 to 12/31/97Well Name: MW-3Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ OtherGroundwater Elevation (MSL): 84.25 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	0.75 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1330

Test Site ID #: 4025A14571

Report Period: 07/01/97 to 12/31/97

Well Name: MW-3 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 84.25 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1045

Test Site ID #: 4025A14572

Report Period: 07/01/97 to 12/31/97

Well Name: MW-4

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☒ Background
☐ Intermediate
☐ Compliance
☐ Other

Groundwater Elevation (MSL): 82.86 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1045	209. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1045	5.66 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1045	2.0 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1045	8.2 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1045	22.6 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1045	Color NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	0.22 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	12. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	21.5 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	0.06 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	4.6 mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	235. mg/L	1. mg/L

Appendix I - Inorganic

001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	0.012 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.002 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	< 0.002 mg/L	0.002 mg/L

Appendix I - Organic

081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1045

Test Site ID #: 4025A14572

Report Period: 07/01/97 to 12/31/97

Well Name: MW-4

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☒ Background
☐ Intermediate
☐ Compliance
☐ Other

Groundwater Elevation (MSL): 82.86 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1045Test Site ID #: 4025A14572Report Period: 07/01/97 to 12/31/97Well Name: MW-4 Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☒ Background
☐ Intermediate
☐ Compliance
☐ OtherGroundwater Elevation (MSL): 82.86 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1230

Test Site ID #: 4025A14573

Report Period: 07/01/97 to 12/31/97

Well Name: MW-5

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 82.91 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1230	91. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1230	4.96 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1230	2.6 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1230	2.7 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1230	24.1 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1230	None NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	0.15 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	8.3 mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	5.33 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	0.03 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	4.3 mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	68. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	< 0.005 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.001 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	< 0.002 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1230

Test Site ID #: 4025A14573

Report Period: 07/01/97 to 12/31/97

Well Name: MW-5

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 82.91 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1230

Test Site ID #: 4025A14573

Report Period: 07/01/97 to 12/31/97

Well Name: MW-5 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: [] Background
[] Intermediate
[x] Compliance
[] Other

Groundwater Elevation (MSL): 82.91 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1515

Test Site ID #: 4025A14574

Report Period: 07/01/97 to 12/31/97

Well Name: MW-6

Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 83.24 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1515	114. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1515	4.73 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1515	3.1 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1515	1.9 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1515	23.7 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1515	None NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	< 0.04 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	20. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	3.46 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	< 0.02 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	13. mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	76. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	< 0.005 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.002 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	< 0.002 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1515Test Site ID #: 4025A14574Report Period: 07/01/97 to 12/31/97Well Name: MW-6Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ OtherGroundwater Elevation (MSL): 83.24 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1515

Test Site ID #: 4025A14574

Report Period: 07/01/97 to 12/31/97

Well Name: MW-6 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 83.24 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1425Test Site ID #: 4025A14575Report Period: 07/01/97 to 12/31/97Well Name: MW-7Well Purged (Y/N) YesClassification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 82.66 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1425	125. umhos/cm	1. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-08-97 @ 1425	4.32 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-08-97 @ 1425	3.7 mg/L	0.1 mg/L
082078	Turbidity (field)	Bailer	No	EPA 180.1	12-08-97 @ 1425	1.6 NTU	0.1 NTU
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1425	23.3 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1425	None NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	0.24 mg/L	0.04 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-17-97 @ 1100	27. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	2.94 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	< 0.02 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	16. mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-10-97 @ 1430	86. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	< 0.005 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	< 0.02 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.004 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	< 0.002 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.5 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1425Test Site ID #: 4025A14575Report Period: 07/01/97 to 12/31/97Well Name: MW-7Well Purged (Y/N) YesClassification of Groundwater G-IIWell Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ OtherGroundwater Elevation (MSL): 82.66 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5. ug/L	5. ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1425

Test Site ID #: 4025A14575

Report Period: 07/01/97 to 12/31/97

Well Name: MW-7 Well Purged (Y/N) Yes

Classification of Groundwater G-II

Well Type: ☐ Background
☐ Intermediate
☒ Compliance
☐ Other

Groundwater Elevation (MSL): 82.66 ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12/17/97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12/17/97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12/17/97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12/17/97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12/17/97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12/17/97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12/17/97	< 0.11 ug/L	0.11 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1530

Test Site ID #: 4025A

Report Period: 07/01/97 to 12/31/97

Well Name: Leachate

Well Purged (Y/N)

Classification of Groundwater

Well Type: ☐ Background
☐ Intermediate
☐ Compliance
☒ Other

Groundwater Elevation (MSL): ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
000094	Specific Conductivity (field)	Bailer	No	EPA 120.1	12-08-97 @ 1530	254. umhos/cm	5. umhos/cm
004060	pH (Field)	Bailer	No	EPA 150.1	12-00-97 @ 1020	6.34 S.U.	NA
000299	Dissolved Oxygen (field)	Bailer	No	EPA 360.1	12-19-96 @ 1020	2.4 mg/L	0.1 mg/L
000010	Temperature (field)	Bailer	No	EPA 170.1	12-08-97 @ 1020	22.9 C	NA
085326	Colors & Sheens (by observation)	Bailer	No	EPA	12-08-97 @ 1020	Color NA	NA
000610	Total Ammonia - N	Bailer	No	EPA 350.1	12-12-97 @ 0900	1.22 mg/L	0.04 mg/L
	Bicarbonate	Bailer	No	EPA 310.1	12-10-97 @ 1300	128. mg/L	1.0 mg/L
000940	Chlorides	Bailer	No	EPA 325.3	12-22-97 @ 1400	10. mg/L	0.5 mg/L
001045	Iron	Bailer	No	EPA 236.1	01-02-98 @ 1348	5.56 mg/L	0.01 mg/L
071900	Mercury	Bailer	No	EPA 245.2	12-30-97 @ 1226	< 0.001 mg/L	0.001 mg/L
000620	Nitrate	Bailer	No	EPA 353.2	12-23-97 @ 0949	0.04 mg/L	0.02 mg/L
000929	Sodium	Bailer	No	EPA 273.1	12-30-97 @ 1235	5.9 mg/L	0.1 mg/L
070300	Total dissolved solids (TDS)	Bailer	No	EPA 160.1	12-11-97 @ 1255	174. mg/L	1. mg/L
Appendix I - Inorganic							
001097	Antimony	Bailer	No	EPA 204.2	12-19-97 @ 1026	< 0.003 mg/L	0.003 mg/L
001002	Arsenic	Bailer	No	EPA 206.3	01-06-98 @ 1445	0.006 mg/L	0.005 mg/L
001007	Barium	Bailer	No	EPA 208.1	01-07-98 @ 1226	0.03 mg/L	0.02 mg/L
001012	Beryllium	Bailer	No	EPA 210.2	12-23-97 @ 0859	< 0.001 mg/L	0.001 mg/L
001027	Cadmium	Bailer	No	EPA 213.1	12-29-97 @ 1238	< 0.002 mg/L	0.002 mg/L
001034	Chromium	Bailer	No	EPA 218.1	12-23-97 @ 1509	< 0.02 mg/L	0.02 mg/L
001037	Cobalt	Bailer	No	EPA 6010	12-15-97 @ 1204	< 0.05 mg/L	0.05 mg/L
001042	Copper	Bailer	No	EPA 220.1	12-29-97 @ 1244	< 0.01 mg/L	0.01 mg/L
001051	Lead	Bailer	No	EPA 239.2	12-24-97 @ 1102	0.004 mg/L	0.001 mg/L
001067	Nickel	Bailer	No	EPA 249.1	01-02-98 @ 1350	< 0.01 mg/L	0.01 mg/L
001147	Selenium	Bailer	No	EPA 270.2	12-30-97 @ 1242	< 0.005 mg/L	0.005 mg/L
001077	Silver	Bailer	No	EPA 272.2	12-18-97 @ 1347	< 0.001 mg/L	0.001 mg/L
001059	Thallium	Bailer	No	EPA 279.2	12-22-97 @ 1020	< 0.002 mg/L	0.002 mg/L
001087	Vanadium	Bailer	No	EPA 6010	12-15-97 @ 0000	< 0.1 mg/L	0.1 mg/L
001092	Zinc	Bailer	No	EPA 289.1	01-05-98 @ 1045	0.005 mg/L	0.002 mg/L
Appendix I - Organic							
081552	Acetone	Bailer	No	EPA 8260	12-17-97	< 2.5 ug/L	2.5 ug/L
034215	Acrylonitrile	Bailer	No	EPA 8260	12-17-97	< 1.5 ug/L	1.0 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001Sampling Date/Time: 12/08/97 @ 1530Test Site ID #: 4025AReport Period: 07/01/97 to 12/31/97Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: ☐ Background
☐ Intermediate
☐ Compliance
☒ Other

Groundwater Elevation (MSL): ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034030	Benzene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
073085	Bromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
032101	Bromodichloromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
032104	Bromoform	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
046372	Carbon disulfide	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
032102	Carbon tetrachloride	Bailer	No	EPA 8260	12-17-97	< 0.21 ug/L	0.21 ug/L
034301	Chlorobenzene	Bailer	No	EPA 8260	12-17-97	0.34 ug/L	0.04 ug/L
034311	Chloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
032106	Chloroform	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
032105	Dibromochloromethane	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
037860	1,2-Dibromo-3-chloropropane (DBCP)	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
046369	1,2-Dibromomethane	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
034536	o-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
034571	p-Dichlorobenzene	Bailer	No	EPA 8260	12-17-97	2.04 ug/L	0.03 ug/L
077268	trans-1,4-Dichloro-2-butene	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
034496	1,1-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034531	1,2-Dichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034501	1,1-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.12 ug/L	0.12 ug/L
077093	cis-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034546	trans-1,2-Dichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
034541	1,2-Dichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034704	cis-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.05 ug/L	0.05 ug/L
034699	trans-1,3-Dichloropropene	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034371	Ethylbenzene	Bailer	No	EPA 8260	12-17-97	< 0.06 ug/L	0.06 ug/L
077103	2-Hexanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
034413	Methyl bromide	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034418	Methyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.13 ug/L	0.13 ug/L
046361	Methylene bromide	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
034423	Methylene chloride	Bailer	No	EPA 8260	12-17-97	< 0.03 ug/L	0.03 ug/L
081595	Methyl ethyl ketone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077424	Methyl iodide	Bailer	No	EPA 8260	12-17-97	< 0.5 ug/L	0.5 ug/L
078133	4-Methyl-2-pentanone	Bailer	No	EPA 8260	12-17-97	< 5.0 ug/L	5.0 ug/L
077128	Styrene	Bailer	No	EPA 8260	12-17-97	< 1.0 ug/L	1.0 ug/L
077562	1,1,1,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.1 ug/L	0.1 ug/L
034516	1,1,2,2-Tetrachloroethane	Bailer	No	EPA 8260	12-17-97	< 0.04 ug/L	0.04 ug/L
034475	Tetrachloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.14 ug/L	0.14 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 4025C30001

Sampling Date/Time: 12/08/97 @ 1530

Test Site ID #: 4025A

Report Period: 07/01/97 to 12/31/97

Well Name: Leachate Well Purged (Y/N)

Classification of Groundwater

Well Type: ☐ Background
☐ Intermediate
☐ Compliance
☒ Other

Groundwater Elevation (MSL): ft.

STORET Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034010	Toluene	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L
034506	1,1,1-Trichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
034511	1,1,2-Trichloroethane	Bailer	No	EPA 8260	12-17-97	< 0.10 ug/L	0.10 ug/L
039180	Trichloroethylene	Bailer	No	EPA 8260	12-17-97	< 0.19 ug/L	0.19 ug/L
034488	Trichlorofluoromethane	Bailer	No	EPA 8260	12-17-97	< 0.08 ug/L	0.08 ug/L
077443	1,2,3-Trichloropropane	Bailer	No	EPA 8260	12-17-97	< 0.3 ug/L	0.3 ug/L
077057	Vinyl acetate	Bailer	No	EPA 8260	12-17-97	< 10. ug/L	10. ug/L
039175	Vinyl chloride	Bailer	No	EPA 8260	12-17-97	< 0.17 ug/L	0.17 ug/L
034020	Xylenes	Bailer	No	EPA 8260	12-17-97	< 0.11 ug/L	0.11 ug/L

10405 U.S. 27 South
Sebring, Fl 33870
(813) 655-4022

CHAIN OF CUSTODY
and
TRANSMITTAL FORM

1 liter	N
500	500
200	5
+	N
20	H

LABORATORY ANALYSES						
Sr#	N	Zn	VK			
No ₂ CL TDS	No ₃ NH ₃ Nox	No _x N _T Fe	40 CFR Pt ₂ 58 API	SD AS B9 B Cd Cr Cu Pb Ni SE	AM Co Ag Ti Zn	Co V AP Org
X	X	X				

App I
Organics

[illegible]

COMMENTS:

TA 0945 TP 1540

1208J ~~Room~~ shop = 0.0 / 208m Recycling office = 0.0
1208K Tool Rm = 0.0
1208L Scale Room = 0.0

CONTAINERS RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:
SAMPLES RELINQUISHED BY: <i>Jeffrey Fain</i>	DATE & TIME: 12/8/97 1610	RECEIVED BY: <i>[Signature]</i>	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:
SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:

2594

10405 U.S. 27 South
Sebring, Fl 33870
(813) 655-4022

**CHAIN OF CUSTODY
and
TRANSMITTAL FORM**

1 Gal 250 N
1 Sq
liter Ace
500 sum
2 V H

LABORATORY ANALYSES

[illegible]

COMMENTS:

2595

CONTAINERS RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:
SAMPLES RELINQUISHED BY: <i>[Signature]</i>	DATE & TIME: 12/8/97/610	RECEIVED BY: <i>[Signature]</i>	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:
SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	SAMPLES RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:

SHORT ENVIRONMENTAL LABORATORIES, INC.10405 US 27 South
Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
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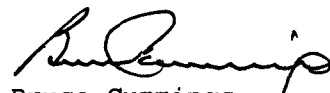
Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610**REPORT OF ANALYSIS****FIELD DATA**Temperature 22.9 deg. C
pH 6.34 S.U.
Conductivity 254. umho/cm
Dissolved Oxygen 2.4 mg/L
Color & Sheen Color**LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Total Dissolved Solids	174.	mg/L	EPA 160.1	B. Hatton	12/11/97 @ 1255	10.
Alkalinity	128.	mg/L	EPA 310.1	B. Hatton	12/10/97 @ 1300	0.5
Chloride	10.	mg/L	EPA 325.3	B. Hatton	12/22/97 @ 1400	0.5
Cyanide	0.005u	mg/L	EPA 335.3	D. Morton	12/17/97 @ 1512	0.005
Sulfide	0.37	mg/L	EPA 376.1	R. Stephens	12/12/97 @ 1651	
Ammonia Nitrogen (NH3-N)	1.22	mg/L	EPA 350.1	D. Morton	12/12/97 @ 0900	0.04
Ammonium Nitrogen (NH4-N)	1.22	mg/L	Calc.	B. Cummings	01/26/98 @ 1430	0.04
Nitrite Nitrogen (NO2-N)	0.01u	mg/L	EPA 354.1	D. Morton	12/10/97 @ 0746	0.01
Nitrate Nitrogen (NO3-N)	0.04	mg/L	Calc.	B. Cummings	01/26/98 @ 1430	0.02
Nitrate + Nitrite N (NO2+NO3)	0.04	mg/L	EPA 353.2	D. Morton	12/23/97 @ 0949	0.02
Antimony	0.003u	mg/L	EPA 204.2	R. Stephens	12/19/97 @ 1026	0.003
Arsenic	0.006	mg/L	EPA 206.3	R. Stephens	01/06/98 @ 1445	0.005

u = Parameter was analyzed for but not detected

Respectfully Submitted,

Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.10405 US 27 South
Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
Page 2 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Barium	0.03	mg/L	EPA 208.1	R. Stephens	01/07/98 @ 1226	0.02
Beryllium	0.001u	mg/L	EPA 210.2	R. Stephens	12/23/97 @ 0859	0.001
Cadmium	0.002u	mg/L	EPA 213.1	R. Stephens	12/29/97 @ 1238	0.002
Chromium	0.02u	mg/L	EPA 218.1	R. Stephens	12/23/97 @ 1509	0.02
Cobalt	0.05u	mg/L	EPA 6010	E84098	12/15/97 @ 1204	0.05
Copper	0.01u	mg/L	EPA 220.1	R. Stephens	12/29/97 @ 1244	0.01
Iron	5.56	mg/L	EPA 236.1	R. Stephens	01/02/98 @ 1348	0.01
Lead	0.004	mg/L	EPA 239.2	R. Stephens	12/24/97 @ 1102	0.001
Mercury	0.001u	mg/L	EPA 245.2	R. Stephens	12/30/97 @ 1226	0.001
Nickel	0.01u	mg/L	EPA 249.1	R. Stephens	01/02/98 @ 1350	0.01
Selenium	0.005u	mg/L	EPA 270.2	R. Stephens	12/30/97 @ 1242	0.005
Silver	0.001u	mg/L	EPA 272.2	R. Stephens	12/18/97 @ 1347	0.001
Sodium	5.9	mg/L	EPA 273.1	R. Stephens	12/30/97 @ 1235	1.0
Thallium	0.002u	mg/L	EPA 279.2	R. Stephens	12/22/97 @ 1020	0.002
Tin	0.10u	mg/L	EPA 6010	E84098	12/19/97 @ 0942	0.10
Vanadium	BDL	mg/L	EPA 6010	84183	12/15/97 @ 0000	0.10
Zinc	0.005	mg/L	EPA 289.1	R. Stephens	01/05/98 @ 1045	0.002
Aldrin	0.004u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.004
Chlordane	0.02u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.02

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Respectfully Submitted,

Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South

Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516

(941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge

01/26/98
Page 3 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

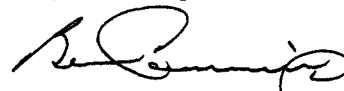
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Dieldrin	0.004u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.004
Endosulfan I	0.014u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.014
Endosulfan II	0.004u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.004
Endosulfan sulfate	0.03u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.03
Endrin	0.006u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.006
Endrin aldehyde	0.023u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.023
Heptachlor	0.003u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.003
Heptachlor epoxide	0.010u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.010
Methoxychlor	0.050u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.050
PCBs	0.50u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.50
Toxaphene	0.20u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.20
A-BHC	0.003u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.003
B-BHC	0.006u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.006
D-BHC	0.009u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.009
G-BHC (Lindane)	0.004u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.004
4,4-DDD	0.011u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.011
4,4-DDE	0.004u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.004
4,4-DDT	0.012u	ug/L	EPA 608	E84098	12/18/97 @ 0000	0.012
Dinoseb	0.20u	ug/L	EPA 8150	E84098	12/20/97 @ 0000	0.20

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.10405 US 27 South
Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
Page 4 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
2,4-D	0.20u	ug/L	EPA 8150	E84098	12/20/97 @ 0000	0.20
Silvex (2,4,5-TP)	0.10u	ug/L	EPA 8150	E84098	12/20/97 @ 0000	0.10
2,4,5-T	0.20u	ug/L	EPA 8150	E84098	12/20/97 @ 0000	0.20
Acetone	2.5u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	2.5
Acetonitrile	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Acrolein	1.70u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	1.70
Acrylonitrile	1.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	1.50
Allyl chloride	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
Benzene	0.04u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
Bromochloromethane	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
Bromodichloromethane	0.08u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.08
Bromoform	0.12u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.12
Carbon disulfide	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
Carbon tetrachloride	0.21u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.21
Chlorobenzene	0.34	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
Chloroethane	0.10u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.10
Chloroform	0.03u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.03
Chloroprene	0.03u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.03
Dibromochloromethane	0.05u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.05

u = Parameter was analyzed for but not detected

Respectfully Submitted,

Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South

Sebring, Florida 33870

(800) 833-4022

HRS# 85344 & E85458, FDEP QAP# 880516

(941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge

01/26/98

Page 5 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

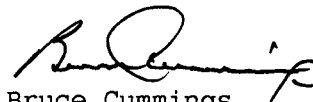
REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
1,2-Dibromo-3-chloropropane	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
1,2-Dibromomethane	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
1,2-Dichlorobenzene	0.03u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.03
1,3-Dichlorobenzene	0.12u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.12
1,4-Dichlorobenzene	2.04	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.03
trans-1,4-Dichloro-2-butene	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Dichlorodifluoromethane	0.10u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.10
1,1-Dichloroethane	0.04u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
1,2-Dichloroethane	0.06u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.06
1,1-Dichloroethene	0.12u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.12
cis-1,2-Dichloroethene	0.10u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.10
trans-1,2-Dichloroethene	0.06u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.06
1,2-Dichloropropane	0.04u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
1,3-Dichloropropane	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
2,2-Dichloropropane	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
1,1-Dichloropropene	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
cis-1,3-Dichloropropene	0.05u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.05
trans-1,3-Dichloropropene	0.04u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
Ethylbenzene	0.06u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.06

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings
Laboratory Director

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Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
Page 6 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Ethyl methacrylate	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
2-Hexanone	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
Isobutyl alcohol	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Methacrylonitrile	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Methyl bromide	0.11u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.11
Methyl Chloride	0.13u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.13
Methyl ethyl ketone	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
Methyl iodide	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
Methyl methacrylate	0.50u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.50
4-Methyl-2-pentanone	5.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	5.0
Methylene bromide	0.30u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.30
Methylene chloride	0.03u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.03
Propionitrile	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Styrene	1.0u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	1.0
1,1,1,2-Tetrachloroethane	0.10u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.10
1,1,2,2-Tetrachloroethane	0.04u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.04
Tetrachloroethene	0.14u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.14
Toluene	0.11u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.11
1,1,1-Trichloroethane	0.08u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.08

u = Parameter was analyzed for but not detected

Respectfully Submitted,

Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South

Sebring, Florida 33870

(800) 833-4022

HRS# 85344 & E85458, FDEP QAP# 880516

(941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge

01/26/98

Page 7 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS**LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
1,1,2-Trichloroethane	0.10u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.10
Trichloroethene	0.19u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.19
Trichlorofluoromethane	0.08u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.08
1,2,3-Trichloropropane	0.30u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.30
Vinyl acetate	10.u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	10.
Vinyl chloride	0.17u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.17
Xylene (total)	0.11u	ug/L	EPA 8260	E84098	12/17/97 @ 0000	0.11
4-Chloro-3-methylphenol	3.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.0
2-Chlorophenol	3.3u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.3
m-Cresol	3.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.5
o-Cresol	3.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.5
p-Cresol	3.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.5
2,4-Dichlorophenol	2.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.7
2,6-Dichlorophenol	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
2,4-Dimethylphenol	2.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.7
4,6-Dinitro-o-cresol	9.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	9.5
2,4-Dinitrophenol	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
2-Nitrophenol	3.6u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.6
4-Nitrophenol	2.4u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.4

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.10405 US 27 South
Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
Page 8 of 13

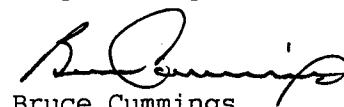
Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610**REPORT OF ANALYSIS****LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Pentachlorophenol	3.6u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.6
Phenol	1.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.5
2,3,4,6-Tetrachlorophenol	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
2,4,5-Trichlorophenol	3.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.9
2,4,6-Trichlorophenol	2.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.7
Acenaphthene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Acenaphthylene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Acetophenone	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
2-Acetylaminofluorene	7.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	7.5
4-Aminobiphenyl	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Anthracene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Benzo (A) anthracene	3.1u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.1
Benzo (B) fluoranthene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Benzo (K) fluoranthene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Benzo (GHI) perylene	4.1u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	4.1
Benzo (A) pyrene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Benzyl alcohol	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Bis (2-chloroethoxy) methane	5.3u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.3
Bis (2-chloroethyl) ether	5.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.7

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Respectfully Submitted,

Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 South

Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516

(941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge

01/26/98
Page 9 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS**LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Bis (2-chloroisopropyl) ether	5.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.7
Bis (2-ethylhexyl) phthalate	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
4-Bromophenyl phenyl ether	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Butyl benzyl phthalate	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
p-Chloroaniline	6.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	6.0
Chlorobenzilate	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
2-Chloronaphthalene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
4-Chlorophenyl phenyl ether	4.2u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	4.2
Chrysene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Diallate	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Dibenz (A,H) anthracene	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Dibenzofuran	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Di-n-butyl phthalate	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
3,3-Dichlorobenzidine	3.2u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.2
Diethyl phthalate	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Thionazin	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Dimethoate	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
p-(Dimethylamino) azobenzene	6.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	6.0
7,12-Dimethylbenz(A)anthracene	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.10405 US 27 South
Sebring, Florida 33870

(800) 833-4022 HRS# 85344 & E85458, FDEP QAP# 880516 (941) 655-4022

For: Hardee County
Dept of Solid Waste
685 Airport Road
Wauchula, FL 33873-
Attn: J.R. Prestridge01/26/98
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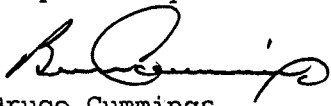
Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610**REPORT OF ANALYSIS****LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
3,3-Dimethylbenzidine	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Dimethyl phthalate	1.6u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.6
1,3-Dinitrobenzene	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
2,4-Dinitrotoluene	5.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.7
2,6-Dinitrotoluene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Di-n-octyl phthalate	2.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.5
Diphenylamine	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Disulfoton	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Ethyl methanesulfonate	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Famphor	20.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	20.
Fluoranthene	2.2u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.2
Fluorene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Hexachlorobenzene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Hexachlorobutadiene	0.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	0.9
Hexachlorocyclopentadiene	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Hexachloroethane	1.6u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.6
Hexachloropropene	3.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.7
Indero (1,2,3-CD) pyrene	3.7u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.7
Isodrin	6.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	6.0

u = Parameter was analyzed for but not detected

Respectfully Submitted,


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Page 11 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610**REPORT OF ANALYSIS****LABORATORY DATA**

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
Isophorone	2.2u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.2
Isosafrole	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Kepone	30.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	30.
Methapyrilene	30.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	30.
3-Methylchloranthrene	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Methyl methanesulfonate	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
2-Methylnaphthalene	2.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	2.0
Methyl parathion	15.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	15.
Naphthalene	1.6u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.6
1,4-Naphthoquinone	7.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	7.5
1-Naphthylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
2-Naphthylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
2-Nitroaniline	20.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	20.
3-Nitroaniline	20.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	20.
4-Nitroaniline	20.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	20.
Nitrobenzene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
n-Nitrosodi-n-butylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
n-Nitrosodiethylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
n-Nitrosodimethylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.

u = Parameter was analyzed for but not detected

Respectfully Submitted,


Bruce Cummings
Laboratory Director

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Page 12 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
n-Nitrosodiphenylamine	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
n-Nitrosodipropylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
n-Nitrosodimethylethylamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
n-Nitrosopiperidine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
n-Nitrosopyrrolidine	15.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	15.
5-Nitro-o-toluidine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Parathion	15.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	15.
Pentachlorobenzene	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
Pentachloronitrobenzene	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Phenacetin	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Phenanthrene	5.4u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.4
p-Phenylenediamine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Phorate	3.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	3.0
Pronamide	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
Pyrene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9
Safrole	7.5u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	7.5
1,2,4,5-Tetrachlorobenzene	5.0u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	5.0
o-Toluidine	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.
1,2,4-Trichlorobenzene	1.9u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	1.9

u = Parameter was analyzed for but not detected

Respectfully Submitted,

Bruce Cummings
Laboratory Director

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01/26/98
Page 13 of 13

Laboratory Number: 76948

Project: Hardee Co
Location: Landfill
Sample ID: Leachate
Sampled By: J. Finn/R. Greene on 12/08/97 @ 1530
Received: 12/08/97 @ 1610

REPORT OF ANALYSIS

LABORATORY DATA

Parameter	Result	Units	Method	Analyst	Date/Time of Analysis	MDL
o,o,o-Triethylphosphorothioate	30.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	30.
1,3,5-Nitrobenzene	10.u	ug/L	EPA 8270	E84098	01/06/98 @ 0000	10.

u = Parameter was analyzed for but not detected

Respectfully Submitted,



Bruce Cummings
Laboratory Director

SHORT ENVIRONMENTAL LABORATORIES, INC.

10405 US 27 SOUTH
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(813) 655-4022

COMPREHENSIVE QUALITY ASSURANCE PLAN

Prepared by
and for:

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 U.S. 27 SOUTH
SEBRING, FLORIDA 33870

Plan # 880516G

Revision 5

May 17, 1997

1.0 Key Personnel

Howard Short - President

Bruce Cummings - Laboratory Director

David Murto - Chief Chemist

David Murto - QA Officer

Richard Stephens - AA & Microbiology Supervisor

Doug Morton - Inorganic Supervisor

Richard Greene - Field Services Manager

Jeffrey Finn - Analyst/Field Technician

Angela Watkins - Project Manager

Susan Smyth - Sample Custodian

Heidi Huston - Analyst

Henry Hatton - Analyst

Janice Jests - Analyst

Witmer Smith - Analyst

Barbara Cummings - Secretary / Receptionist

TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

SEL-QA-001/92
Section # 2
Date 05/16/97
Page 1 of 14

ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Color	EPA 110.2	DW GW SW WW	0 - 11.9	M	N/A		0 CO/PT
Conductance	EPA 120.1	DW GW SW WW EFF	0 - 2.5	M	N/A		1 umhos/cm
Hardness	EPA 130.2	DW GW SW WW	0 - 5.0	M	106 - 95	M	1 mg/L
Odor	SM 2150	DW GW SW WW	0 - 14^	M	N/A		0 TON
pH	EPA 150.1	DW GW SW WW EFF	0 - 1.2	M	N/A		1-14 S.U. 0.1 Minimum Increment
Total Dissolved Solids	EPA 160.1	DW GW SW WW	0 - 6.1	M	N/A		4 mg/L
Total Suspended Solids	EPA 160.2	SW WW EFF	0 - 7.4	M	N/A		1.0 mg/l
Total Solids	EPA 160.3	GW SW WW DW	0 - 5.0	M	N/A		4 mg/L
Fixed and Volatile Solids	EPA 160.4	EFF	0 - 34	M	N/A		4 mg/L
Settleable Solids	EPA 160.5	EFF	0 - 3.7	M	N/A		1 ml/L
Temperature	EPA 170.1	DW GW SW WW EFF	N/A	M	N/A		Degrees C

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

SEL-QA-001/92
Section # 2
Date 05/16/97
Page 2 of 14

ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Turbidity	EPA 180.1	DW GW SW WW	0 - 9.8	M	N/A		0.1 NTU
Corrosivity	SM2330B	DW GW	N/A		N/A		N/A

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TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

SEL-QA-001/92
Section # 2
Date 05/16/97
Page 3 of 14

ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Aluminum	EPA 202.1	DW,GW,SW,W	0 - 11.5	M	140 - 61	M	0.5 mg/L
	EPA 7020	GW,SW,WW	0 - 11.5	M	140 - 61	M	0.5 mg/L
	EPA 202.2	DW,GW,SW,W	0 - 11.5	M	140 - 61	M	0.003 mg/L
Antimony	EPA 204.1	DW,GW,SW,W	0 - 5.3	M	113 - 84	M	0.2 mg/L
	EPA 7040	GW,SW,WW	0 - 5.3	M	113 - 84	M	0.2 mg/L
	EPA 204.2	DW,GW,SW,W	0 - 30.0	M	136 - 51	M	0.003 mg/L
	EPA 7041	GW,SW,WW	0 - 30.0	M	136 - 51	M	0.003 mg/L
Arsenic	EPA 206.3	DW,GW,SW,W	0 - 18.9	M	113 - 75	M	0.005 mg/L
	EPA 7061	GW,SW,WW	0 - 18.9	M	113 - 75	M	0.005 mg/L
	EPA 206.2	DW,GW,SW,W	0 - 38^	M	160 - 60^	M	0.002 mg/L
	EPA 7060	GW,SW,WW	0 - 38^	M	160 - 60^	M	0.002 mg/L
Barium	EPA 208.1	DW,GW,SW,W	0 - 9.8	M	110 - 71	M	0.1 mg/L
	EPA 7080	GW,SW,WW	0 - 9.8	M	110 - 71	M	0.1 mg/L
	EPA 208.2	DW,GW,SW,W	0 - 6.5*	M	109 - 95*	M	0.002 mg/L*
	EPA 7081	GW,SW,WW	0 - 6.5*	M	109 - 95*	M	0.002 mg/L*
Beryllium	EPA 210.1	GW,SW,WW	0 - 4.3	M	118 - 83	M	0.01 mg/L
	EPA 7090	GW,SW,WW	0 - 4.3	M	118 - 83	M	0.01 mg/L
	EPA 210.2	DW,GW,SW,W	0 - 19.3	M	132 - 59	M	0.001 mg/L
	EPA 7091	GW,SW,WW	0 - 19.3	M	132 - 59	M	0.001 mg/L
Cadmium	EPA 213.1	GW,SW,WW	0 - 7.8	M	108 - 85	M	0.01 mg/L
	EPA 7130	GW,SW,WW	0 - 7.8	M	108 - 85	M	0.01 mg/L
	EPA 213.2	DW,GW,SW,W	0 - 4.7	M	128 - 52	M	0.0002 mg/L
	EPA 7131	GW,SW,WW	0 - 4.7	M	128 - 52	M	0.0002 mg/L
Calcium	EPA 215.1	DW,GW,SW,W	0 - 7.2	M	113 - 86	M	0.05 mg/L
	EPA 7140	GW,SW,WW	0 - 7.2	M	113 - 86	M	0.05 mg/L
Calcium	EPA 215.2	DW,GW,SW	0 - 4.8	M	105 - 96	M	0.5 mg/L
Chromium	EPA 218.1	GW,SW,WW	0 - 5.9	M	125 - 90	M	0.1 mg/L
	EPA 7190	GW,SW,WW	0 - 5.9	M	125 - 90	M	0.1 mg/L
	EPA 218.2	DW,GW,SW,W	0 - 6.4	M	130 - 94	M	0.001 mg/L
	EPA 7191	GW,SW,WW	0 - 6.4	M	130 - 94	M	0.001 mg/L
Chromium, Hexavalent (Dissolved)	SM3500-Cr	GW,SW,WW	0 - 3.1^	M	105 - 87^	M	0.01 mg/L
Copper	EPA 220.1	DW,GW,SW,W	0 - 3.6	M	102 - 93	M	0.05 mg/L
	EPA 7210	GW,SW,WW	0 - 3.6	M	102 - 93	M	0.05 mg/L
	EPA 220.2	DW,GW,SW,W	0 - 2.7^	M	112 - 77^	M	0.001 mg/L
	EPA 7211	GW,SW,WW	0 - 2.7^	M	112 - 77^	M	0.001 mg/L
Iron	EPA 236.1	DW,GW,SW,W	0 - 11.6	M	119 - 78	M	0.05 mg/L
	EPA 7380	GW,SW,WW	0 - 11.6	M	119 - 78	M	0.05 mg/L
	EPA 236.2	DW,GW,SW,W	0 - 15*	M	125 - 75*	M	0.001 mg/L
	EPA 7381	GW,SW,WW	0 - 15*	M	125 - 75*	M	0.001 mg/L
Lead	EPA 239.1	GW,SW,WW	0 - 20.7	M	126 - 61	M	0.1 mg/L
	EPA 7420	GW,SW,WW	0 - 20.7	M	126 - 61	M	0.1 mg/L
	EPA 239.2	DW,GW,SW,W	0 - 17.6	M	133 - 60	M	0.001 mg/L
	EPA 7421	GW,SW,WW	0 - 17.6	M	133 - 60	M	0.001 mg/L
Magnesium	EPA 242.1	DW,GW,SW	0 - 5.4	M	118 - 82	M	0.05 mg/L
	EPA 7450	GW,SW	0 - 5.4	M	118 - 82	M	0.05 mg/L

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(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

SEL-QA-001/92
Section # 2
Date 05/16/97
Page 4 of 14

ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Manganese	EPA 243.1	DW,GW,SW,W	0 - 5.7	M	123 - 87	M	0.05 mg/L
	EPA 7460	GW,SW,WW	0 - 5.7	M	123 - 87	M	0.05 mg/L
	EPA 243.2	DW,GW,SW,W	0 - 15*	M	125 - 75*	M	0.001 mg/L
	EPA 7461	GW,SW,WW	0 - 15*	M	125 - 75*	M	0.001 mg/L
Mercury	EPA 245.2	DW,GW,SW,W	0 - 18.2	M	126 - 63	M	0.0002 mg/L
	EPA 7470	GW,SW,WW	0 - 18.2	M	126 - 63	M	0.0002 mg/L
Molybdenum	EPA 246.1	GW,SW,WW	0 - 5.7^	M	145 - 80^	M	0.2 mg/L
	EPA 7480	GW,SW,WW	0 - 5.7^	M	145 - 80^	M	0.2 mg/L
	EPA 246.2	DW,GW,SW,W	0 - 13.1	M	147 - 61	M	0.001 mg/L
	EPA 7481	GW,SW,WW	0 - 13.1	M	147 - 61	M	0.001 mg/L
Nickel	EPA 249.1	GW,SW,WW	0 - 9.2	M	114 - 83	M	0.05 mg/L
	EPA 7520	GW,SW,WW	0 - 9.2	M	114 - 83	M	0.05 mg/L
	EPA 249.2	DW,GW,SW,W	0 - 12*	M	125 - 75*	M	0.001 mg/L
Potassium	EPA 258.1	GW,SW,WW	0 - 9.7	M	113 - 88	M	0.05 mg/L
	EPA 7610						
Selenium	EPA 270.3	DW,GW,SW,W	0 - 7.6	M	119 - 76	M	0.005 mg/L
	EPA 7741	GW,SW,WW	0 - 7.6	M	119 - 76	M	0.005 mg/L
	EPA 270.2	DW,GW,SW,W	0 - 17.8	M	130 - 60	M	0.005 mg/L
	EPA 7740	GW,SW,WW	0 - 17.8	M	130 - 60	M	0.005 mg/L
Silver	EPA 272.1	DW,GW,SW,W	0 - 22.0	M	121 - 70	M	0.05 mg/L
	EPA 7760	GW,SW,WW	0 - 22.0	M	121 - 70	M	0.05 mg/L
	EPA 272.2	DW,GW,SW,W	0 - 8.2	M	122 - 51	M	0.001 mg/L
	EPA 7761	GW,SW,WW	0 - 8.2	M	133 - 52	M	0.001 mg/L
Sodium	EPA 273.1	DW,GW,SW,W	0 - 3.1	M	105 - 95	M	0.1 mg/L
	EPA 7770	GW,SW,WW	0 - 3.1	M	105 - 95	M	0.1 mg/L
Thallium	EPA 279.1	GW,SW,WW	0 - 7.0	M	121 - 79	M	0.05 mg/L
	EPA 7840	GW,SW,WW	0 - 7.0	M	121 - 79	M	0.05 mg/L
	EPA 279.2	DW,GW,SW,W	0 - 11.3	M	148 - 46	M	0.002 mg/L
	EPA 7841	GW,SW,WW	0 - 11.3	M	148 - 46	M	0.002 mg/L
Zinc	EPA 289.1	DW,GW,SW,W	0 - 16.3	M	121 - 77	M	0.01 mg/L
	EPA 7950	GW,SW,WW	0 - 16.3	M	121 - 77	M	0.01 mg/L
	EPA 289.2	DW,GW,SW,W	0 - 12.0^	M	124 - 74^	M	0.0001 mg/L
	EPA 7951	GW,SW,WW	0 - 12.0^	M	124 - 74^	M	0.0001 mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

SEL-QA-001/92
Section # 2
Date 05/16/97
Page 5 of 14

ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Acidity	EPA 305.1	GW SW WW	0 - 10*	M	108 - 92*	M	N/A mg/L
Alkalinity	EPA 310.1	DW GW SW WW	0 - 2.4	M	102 - 96	M	0.5 mg/L
Boron	EPA 212.3	GW SW WW	0 - 22.8*	M	123 - 77*	M	0.1 mg/L
Chloride	EPA 325.3	DW GW SW WW	0 - 2.0	M	103 - 97	M	0.5 mg/L
Chlorine, Total Residual	EPA 330.5	DW WW	0 - 9.7	M	115 - 85^	M	0.01 mg/L
Total Cyanide	EPA 335.3	DW GW SW WW	0 - 12.5	M	120 - 74	M	0.005 mg/L
Iodine	SM 4500 - I B.	WW DW GW SW	0 - 4.5^	M	136 - 32^	M	0.01 mg/L
Fluoride	EPA 340.2	DW GW SW WW	0 - 6.2	M	104 - 94	M	0.1 mg/L
Silica, dissolved	EPA 370.1	GW SW WW	0 - 11.0	M	124 - 77	M	0.1 mg/L
Sulfate	EPA 375.4	DW GW SW WW	0 - 6.2	M	109 - 87	M	1.0 mg/L
Sulfide	EPA 376.1	DW GW SW WW	0 - 58^	M	N/A	M	0.05 mg/L
Sulfite	EPA 377.1	WW DW GW SW	0 - 7.5^	M	N/A	M	2 mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is
taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Ammonia Nitrogen	EPA 350.1	GW SW WW EFF	0 - 8.5	M	116 - 82	M	0.04 mg/L
Un-Ionized Ammonia Nitrogen	DEP SOP 10/3/83	GW SW WW EFF	N/A	M	N/A	M	N/A
Total Kjeldahl Nitrogen	EPA 351.2	GW SW WW EFF	0 - 13.9	M	123 - 80	M	0.5 mg/L
Organic Nitrogen	EPA 351.2 - 350.1	GW SW WW EFF	N/A	M	N/A	M	0.5 mg/L
Nitrate - Nitrite Nitrogen	EPA 353.2	DW GW SW WW EFF	0 - 2.6	M	106 - 90	M	0.02 mg/L
Nitrite Nitrogen	EPA 354.1	DW GW SW WW EFF	0 - 6.4	M	108 - 96	M	0.01 mg/L
Nitrate Nitrogen	EPA 353.2- EPA 354.1	DW GW SW WW EFF	0 - 2.6	M	106 - 90	M	0.02 mg/L
Phosphorus, Ortho	EPA 365.2	DW GW SW WW	0 - 2.0	M	102 - 97	M	0.01 mg/L
Phosphorus, Total	EPA 365.2	GW SW WW	0 - 6.0	M	102 - 94	M	0.01 mg/L
Phosphorus, Total	EPA 365.4	GW SW WW	0 - 10.7	M	109 - 85	M	0.01 mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

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(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Biochemical Oxygen Demand	EPA 405.1	SW WW EFF	0 - 13.7	M	N/A		1.0 mg/L
Carbonaceous Biochemical Oxygen Demand	SM5210B	SW WW EFF	0 - 13.7	M	N/A		1.0 mg/L
Chemical Oxygen Demand	Hach 8000	SW WW EFF	0 - 26.8	M	120 - 87	M	10.0 mg/L
Dissolved Oxygen	EPA 360.1	SW WW EFF	0 - 15^	M	N/A		1.0 mg/L
Oil and Grease	EPA 413.1	SW WW	0 - 13.5^	M	N/A		1.0 mg/L
Phenol, total	EPA 420.1	GW SW WW	0 - 15.4	M	128 - 68		0.01 mg/L
Surfactants	EPA 425.1	DW GW SW	0 - 10.0	M	126 - 53	M	0.02 mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is
taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Coliforms, Total MF	SM 9222B	DW GW SW WW	0 - 0.29^	M	N/A		1 colonies /100ml
Coliforms, Total MPN	SM 9221B	GW SW WW	0 - 0.32^	M	N/A		2 / 100ml
Coliforms, Total P/A	SM 9221E	DW	N/A		N/A		N/A
Coliforms, Fecal MF	SM 9222D	DW GW SW WW	0 - 0.35	M	N/A		1 colonies / 100ml
Coliforms, Fecal MPN	SM 9221C	DW GW SW WW	0 - 0.32^	M	N/A		2 / 100ml
Standard Plate Count	SM 9215B	DW SW	0 - 0.64	M	N/A		1 colonies / 100ml
Standard Plate Count	SM 9215D	SW	0 - 0.35^	M	N/A		1 colonies / 100ml
Coliforms, Total, Fecal (Confirm) Colilert		DW	N/A		N/A		N/A

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
pH, Field	EPA 150.1	DW GW SW WW EFF	N/A		N/A		1-14 S.U. 0.1 Minimum Increment
Cond, Field	EPA 120.1	DW GW SW WW EFF	N/A		N/A		umhos
Dissolved Oxygen Field	EPA 360.1	DW SW GW WW EFF	N/A		N/A		
Temperature, Field	EPA 170.1	DW GW SW WW EFF	N/A		N/A		deg C
Chlorine, Field	EPA 330.5	DW GW SW WW EFF	N/A		N/A		mg/L
Organic Vapor Analysis, Field		GW WW SED SOIL	N/A		N/A		mg/L
Turbidity, Field	EPA 180.1	DW GW SW WW EFF	N/A		N/A		NTU
Salinity, Field	SM2520B	GW SW	N/A		N/A		0/000

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
pH	EPA 9045	/ SED \ { SLU } \ SOIL /	0 - 0.6	M	N/A		1-14 S.U. 0.1 Minimum Increment
Total Solids	EPA 160.3	/ SED \ { SLU } \ SOIL /	0 - 5.0	M	N/A		10 mg/L
Aluminum	EPA 3050 EPA 7020	/ SED \ { SLU } \ SOIL /	0 - 11.9	M	140 - 64	M	0.5** mg/L
Antimony	EPA 3005 EPA 7040 EPA 7041	/ SED \ { SLU } \ SOIL /	0 - 5.3 0 - 32	M M	113 - 84 146 - 49	M M	0.2** mg/L 0.003** mg/L
Arsenic	EPA 3050 EPA 7060 EPA 7061	/ SED \ { SLU } \ SOIL /	0 - 14.6 0 - 38^	M M	112 - 76 160 - 60^	M M	0.005** mg/L 0.005** mg/L
Barium	EPA 3050 EPA 7080	/ SED \ { SLU } \ SOIL /	0 - 10.3	M	115 - 68	M	0.1** mg/L
Beryllium	EPA 3050 EPA 7090 EPA 7091	/ SED \ { SLU } \ SOIL /	0 - 4.3 0 - 38	M M	118 - 83 159 - 50	M M	0.05** mg/L 0.001** mg/L
Cadmium	EPA 3050 EPA 7130 EPA 7131	/ SED \ { SLU } \ SOIL /	0 - 7.9 0 - 2.2	M M	108 - 79 128 - 65	M M	0.01** mg/L 0.001** mg/L
Calcium	EPA 3050 EPA 7140	/ SED \ { SLU } \ SOIL /	0 - 3.2	M	109 - 89	M	0.5** mg/L
Chromium	EPA 3050 EPA 7190 EPA 7191	/ SED \ { SLU } \ SOIL /	0 - 8.4 0 - 6.5^	M M	130 - 76 129 - 97^	M M	0.1** mg/L 0.001** mg/L
Copper	EPA 3050 EPA 7210	/ SED \ { SLU } \ SOIL /	0 - 12.5	M	119 - 78	M	0.05** mg/L
Iron	EPA 3050 EPA 7380	/ SED \ { SLU } \ SOIL /	0 - 10^	M	134 - 91^	M	
Lead	EPA 3050 EPA 7420 EPA 7421	/ SED \ { SLU } \ SOIL /	0 - 25 0 - 11.0	M M	113 - 76 146 - 55	M M	0.1** mg/L 0.001** mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is

taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION SM 9020 (4)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Magnesium	EPA 3050 EPA 7450	/ SED \ { SLU } \ SOIL /	0 - 1.6^	M	116 - 82^	M	0.005** mg/L
Manganese	EPA 3050 EPA 7460	/ SED \ { SLU } \ SOIL /	0 - 8.6	M	119 - 92	M	0.05** mg/L
Mercury	EPA 7471	/ SED \ { SLU } \ SOIL /	0 - 8.1^	M	121 - 65^	M	0.001**mg/L
Molybdenum	EPA 3050 EPA 7480 EPA 7481	/ SED \ { SLU } \ SOIL /	0 - 6.2^ 0 - 6.9^	M M	145 - 80^ 110 - 76^	M M	0.2** mg/L 0.001** mg/L
Nickel	EPA 3050 EPA 7520	/ SED \ { SLU } \ SOIL /	0 - 7.0	M	107 - 82	M	0.05** mg/L
Potassium	EPA 3050 EPA 7610	/ SED \ { SLU } \ SOIL /	0 - 8.5	M	107 - 88	M	0.1** mg/L
Selenium	EPA 3050 EPA 7740 EPA 7741	/ SED \ { SLU } \ SOIL /	0 - 17.0^ 0 - 40^	M M	141 - 66^ 140 - 66^	M M	0.005** mg/L 0.005** mg/L
Silver	EPA 3050 EPA 7760 EPA 7761	/ SED \ { SLU } \ SOIL /	0 - 22 0 - 16.8	M M	121 - 70 132 - 52	M M	0.05** mg/L 0.001** mg/L
Sodium	EPA 3050 EPA 7770	/ SED \ { SLU } \ SOIL /	0 - 2.2 ^	M	99 - 85	M	0.1** mg/L
Thallium	EPA 3050 EPA 7840 EPA 7841	/ SED \ { SLU } \ SOIL /	0 - 7.0 0 - 18.2	M M	120 - 79 134 - 62	M M	0.2** mg/L 0.002** mg/L
Zinc	EPA 3050 EPA 7950 EPA 7951	/ SED \ { SLU } \ SOIL /	0 - 7.3 0 - 12.0^	M M	113 - 86 124 - 74^	M M	0.01** mg/L 0.0001**mg/L

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(4) Precision criteria as defined in method

(2) Data not otherwise denoted is taken from internal QC charts.

(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-1
QUALITY ASSURANCE OBJECTIVES

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ANALYTE/ COMPONENT	METHOD NO.	MATRIX (3)	PRECISION %RSD (2)	CONC. RANGE	ACCURACY %R (2)	CONC. RANGE	MDL/UNITS (1)
Total Kjeldahl Nitrogen	EPA/CE-81-1 Method 2 3-202	/ SED \ { SLU } \ SOIL /	0 - 12.5	M	108 - 89	M	0.5** mg/L
Nitrate - Nitrite Nitrogen	EPA/CE-81-1 P. 3-183 + EPA353.2	/ SED \ { SLU } \ SOIL /	0 - 25^	M	115 - 76	M	0.02** mg/L
Phosphorus, Total	EPA/CE-81-1 Method 2 3-227	/ SED \ { SLU } \ SOIL /	0 - 13.5	M	118 - 82	M	0.01** mg/L
SOUR	SM2710B	SLU	N/A	M	N/A	M	N/A

^ Indicates data based on minimal data set

* Indicates data taken from literature

(1) MDLs determined by EPA protocol: part 136 app. B

(2) Data not otherwise denoted is
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(3) QA targets listed by method. Applies to all listed matrices.

TABLE 2-2
Sample Preparation Table

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Sample Prep. Method Number	Description	Matrix	Sample Preparation for these Methods:
3005	Acid Digestion	Water	7020,7041,7080,7090,7130,7140,7190 7210,7380,7420,7450,7460,7520,7610 7761,7770,7840,7950
3010	Acid Digestion	Water	7020,7080,7090,7130,7140,7190,7210 7380,7420,7450,7460,7520,7610,7770 7840,7950
3020	Acid Digestion	Water	7091,7131,7191,7421,7481,7841
3050	Acid Digestion	Soil	7020,7080,7090,7130,7140,7190,7210 7380,7420,7450,7460,7520,7610,7760 7770,7840,7950,7060,7091,7131,7191, 7421,7481,7740,7841
206.5	Acid Digestion	Water	206.3

Sampling Capabilities

Table 2-3 details Short Environmentals' sampling capabilities by matrix and parameter group.

Table 2-3

Parameter Group	Sample Source
Volatile organics	Drinking water, surface water groundwater, sediments, shallow soils, wastewater
Extractable organics	Drinking water, surface water groundwater, sediments, shallow soils, wastewater
Organics	Drinking water, surface water groundwater, sediments, shallow soils, wastewater, domestic waste sludges
Metals	Drinking water, surface water groundwater, sediments, shallow soils, wastewater, domestic waste sludges
Microbiology	Drinking water, surface water groundwater, wastewater domestic waste sludges
Cyanide	Drinking water, surface water groundwater, wastewater
Inorganic Anions	Drinking water, surface water groundwater, sediments, shallow soils, wastewater, domestic waste sludges
Physical properties	Drinking water, surface water groundwater, sediments, shallow soils, wastewater, domestic waste sludges

TABLE 3-1
SAMPLING EQUIPMENT

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Equipment Type	Construction		Use	Permissible Parameter Groups
Groundwater	Housing	Tubing		
Submersible Bladder Pump ISCO 2600	SS	Teflon	Purging	All Parameter Groups
Centrifugal Pump Blue Angel BGP22	Non-inert	Polyethylene	Purging	All Parameter Groups
Peristaltic Pump Masterflex	N/A	Teflon, Silicone	Purging	All Parameter Groups
	N/A	Teflon, Silicone	Sampling	Physical Properties, Inorganic Anions, Radiochemistry, Metals Cyanide, Microbiology
Composite Sampler Sigma 800SL w/ Iced sample compartment	SS	Teflon, Silicone	Sampling	Physical Properties, Inorganic Anions, Radiochemistry, Metals Organics ex. O&G or TRPH Extractable Organics
Bailers	Teflon		Purging	All Parameters
			Sampling	All Parameters
Disposable Syringe	polyethylene		Filtration	Orthophosphate
Filter Cartridges, two piece Filters, 5u pre- & 0.45u final	nylon membrane		Filtration	Orthophosphate
Filters, membrane 1u	one-piece pp, in-line, non-contaminating			Metals, dissolved
Surface Waters				
Bailers	Teflon		Sampling	All Parameters
Scoop	Teflon		Sampling	All Parameters
Disposable Syringe	polyethylene		Filtration	Orthophosphate
Filter Cartridges, two piece Filters, 5u pre- & 0.45u final	nylon membrane		Filtration	Orthophosphate

TABLE 3-1
(cont.)
SAMPLING EQUIPMENT

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Equipment Type	Construction	Use	Permissible Parameter Groups
Drinking Water			
Sample Containers	HDPE or Glass	Direct Collect	All Parameters
Waste Waters			
Sample Containers	HDPE or Glass	Direct Collect	All Parameters
Composite Sampler Sigma 800SL w/ Iced sample compartment	SS	Teflon, Silicone	Sampling
Bailers	Teflon	Sampling	Physical Properties, Inorganic Anions, Radiochemistry, Metals Organics ex. (O&G+TRPH) Extractable Organics All Parameters
Soils & Sediments			
Hand Scoop	SS	Sampling	All Parameters
Pans	SS	Compositing	All Parameters ex. VOC's
Domestic Waste Sludge			
Long handled ladle	HDPE	Sampling	Metals, Physical Parameters Nutrients

TABLE 3-1
(cont.)
SAMPLING EQUIPMENT

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Equipment Type	Construction	Use	Permissible Parameter Groups
Field Measurement Equipment			
Thermometer, Mercury calib. to NIST traceable	Glass	measurement	N/A
Temperature Probe, calib. to NIST traceable	Alloy	measurement	N/A
pH meter, Cole-Parmer digi-sense Orion Model 230		measurement	N/A
Conductivity Meter, YSI mod. 33 Orion Model 130		measurement	N/A
Dissolved Oxygen meter, YSI mod. 51B w/ 5750 probe		measurement	N/A
Methane / Organic Vapor Tester GEM Trace-Techtor		measurement	N/A
Colorimeter, Hach DR 100 Total & Free Chlorine		measurement	N/A
Hach Chlorine test kit		preservation check only	
LaMotte 2008 Field Turbidimeter		measurement	N/A

TABLE 3-1
(cont.)
SAMPLING EQUIPMENT

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Equipment Type	Construction	Use	Permissible Parameter Groups
Accessory Field Equipment			
Nalgene Carboys 10 & 20 L	HDPE	Tap water & DI water	All groups ex. Organics
Bottles 2.5 L	Glass	Analyte-free water	Organics
Bucket, 5 Gal Graduated Cylinder 1000 ml	Plastic	Flow calibration	N/A
Liquinox		decontam.	All Groups
Hydrochloric Acid 10%		decontam.	Nutrients
Nitric Acid 10%		decontam.	Metals
Isopropanol, Pesticide Grade		decontam.	Organics
Analyte-Free H ₂ O		decontam.	All Groups
Aluminum Foil		decontam./storage	
Coolers	Plastic	Sample storage cooling	All groups
Bailer suspension cord	Teflon coated SS	Bailer retrieval	
Sulfuric Acid, ACS grade		Preservation	Nutrients, Phenols
Nitric Acid, ACS grade		Preservation	Metals, Radio.
Hydrochloric Acid, ACS grade		Preservation	O&G, VOC
Sodium Hydroxide, ACS grade		Preservation	CN, H ₂ S
Zinc Acetate sol'n		Preservation	H ₂ S
Conductivity Stds: 10umhos; 147; 1413; 12,900		Calibration	Conductivity
pH Buffers: 4 ; 7 ; 10		Calibration	pH
Chlorine Stds 1 - 1.2		Calibration	Chlorine
LaMotte AMCO secondary stds calib. against Formazin		Calibration	Turbidity
pH paper, narrow range		Preservation check	

TABLE 3-1
(cont.)
SAMPLING EQUIPMENT

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Equipment Type	Construction	Use	Permissible Parameter Groups
Accessory Field Equipment			
Measuring tape	cloth	Water depth	
Gloves	Unpowdered latex	Various sampling activities	
Pasteur Pipets	Glass	Preservative dispensing	

Acronyms

N/A	Not Applicable
SS	Stainless Steel
HDPE	High Density Polyethylene

Table 3-2
Analytical Instrumentation and Support Equipment

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Atomic Absorption Varian Spectra AA-30
GTA-96 Graphite Furnace
DS-15 Data Station
Atomic Absorption Varian Spectra AA-20
VGA-76 Vapor Generation Assembly
PSC-56 Sample Changer

Technicon AAI Autoanalyzer
Alpkem Flow Solution Autoanalyzer

Bausch & Lomb Spectronic 20 UV-Vis Spectrophotometer
Hitachi U-2000 UV-Vis Spectrophotometer

Mettler AC100 Analytical Balance
Mettler H6 Analytical Balance
Ohaus Triple Beam Balance

HF Scientific DRT-100B Turbidimeter

Fisher Digital Conductivity Meter

Fisher Accumet 900 pH meter
Orion 97-08 Dissolved Oxygen Meter

Fisher Accumet 950 pH/Ion meter
Orion Fluoride Electrode
Fisher Ammonia Electrode

Millipore Incubator
Fisher Versa-Bath Water bath
Precision Coliform Incubator Bath
Labline Imperial IV Water Bath
National Steril-Quik Autoclave
Fisher Stereomaster II Microscope
Quebec Colony Counter

Hach COD Reactor

Scientific Instruments Block Digestor

Table 3 - 2 (cont.)

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Fisher Isotemp 500 Oven
Fisher Isotemp 100 Oven
Thermolyne 1400 Muffle Furnace

Fisher BOD Incubator

NIST Traceable Thermometer