



13493

RECEIVED

December 30, 2003

DEC 30 2003

TRAIL RIDGE LANDFILL, INC.

5110 U.S. Highway 301 South
Baldwin, FL 32234-3608
(904) 289-9100
(904) 289-9013 Fax

Ms. Mary C. Nogas, P.E.
Florida Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

STATE OF FLORIDA
DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT-JAX

33628

DUVAL

RE: TRAIL RIDGE LANDFILL
SEMI-ANNUAL GAS CONDENSATE MONITORING RESULTS - 2003
FDEP PERMIT 0013493-002-SC
GMS NO. 3116P02787

Dear Ms. Nogas:

In accordance with Specific Condition 17(d) of the above referenced permit (Specific Condition 14(d) of the Draft Permit 0013493-010-SC), enclosed please find two copies of the gas condensate monitoring report for the Second 2003 Semi-Annual Monitoring Event for Trail Ridge Landfill. Professional Technical Support Services, Inc. collected the gas condensate sample (J030276) on July 2, 2003. Analysis of the collected sample was performed through Advanced Environmental Laboratories, Inc. of Jacksonville, Florida and Pace Analytical Services, Inc. of Saint Rose, Louisiana (see attached reports).

The attached table summarizes the detections and compares the results to various regulatory limits. In accordance with the permit requirements, the results have been compared to established standards that yielded the following observations:

- The constituents that were detected above their Method Reporting Limit (MRL) in TCLP analyses included: barium, cresol, and methyl ethyl ketone (MEK). Also reported (but between their respective laboratory detection limits and the laboratory practical quantitation limit) was pyridine.
- The concentrations for the constituents detected above their MRLs were similar to those noted during the previous sampling gas condensate sampling events.
- No constituent that was detected above its Method Reporting Limit (MRL) were above its Regulatory Limit established by 40 CFR Part 261.24 (July 1, 1999 edition).

Should you have any questions concerning this report, please feel free to contact me at 289-9100.

Sincerely,

Greg Mathes
Director of Landfill Operations

GM:as

Enclosures

cc: Chris Pearson w/attachments
Mark Behel w/o attachments

Table 1
Summary of Results - Gas Condensate Sampling (July 2, 2003)

Trail Ridge Landfill
Jacksonville, Florida

EPA HW No.\1\	Contaminant	CAS No.\2\	Regulatory Limit (mg/L)	Result (mg/L)	Method Reporting Limit (mg/L)
D004	Arsenic	7440-38-2	5.0	ND	0.072
D005	Barium	7440-39-3	100.0	0.11	0.0015
D018	Benzene	71-43-2	0.5	ND	0.030
D006	Cadmium	7440-43-9	1.0	ND	0.0025
D019	Carbon tetrachloride	56-23-5	0.5	ND	0.039
D020	Chlordane	57-74-9	0.03	ND	0.0098
D021	Chlorobenzene	108-90-7	100.0	ND	0.031
D022	Chloroform	67-66-3	6.0	ND	0.041
D007	Chromium	7440-47-3	5.0	ND	0.0015
D023	o-Cresol	95-48-7	√4200.0	ND	
D024	m-Cresol	108-39-4	√4200.0	ND	
D025	p-Cresol	106-44-5	√4200.0	ND	
D026	Cresol		√4200.0	1.1	0.085
D016	2,4-D	94-75-7	10.0	ND	0.0200
D027	1,4-Dichlorobenzene	106-46-7	7.5	ND	0.030
D028	1,2-Dichloroethane	107-06-2	0.5	ND	0.036
D029	1,1-Dichloroethylene	75-35-4	0.7	ND	0.050
D030	2,4-Dinitrotoluene	121-14-2	√30.13	ND	0.0094
D012	Endrin	72-20-8	0.02	ND	0.0007
D031	Heptachlor (and its epoxide)	76-44-8	0.008	ND	0.0032
D032	Hexachlorobenzene	118-74-1	√30.13	ND	0.018
D033	Hexachlorobutadiene	87-68-3	0.5	ND	0.021
D034	Hexachloroethane	67-72-1	3.0	ND	0.028
D008	Lead	7439-92-1	5.0	ND	0.009
D013	Lindane	58-89-9	0.4	ND	0.30
D009	Mercury	7439-97-6	0.2	ND	0.00033
D014	Methoxychlor	72-43-5	10.0	ND	0.001
D035	Methyl ethyl ketone	78-93-3	200.0	16	0.070
D036	Nitrobenzene	98-95-3	2.0	ND	0.010
D037	Pentachlorophenol	87-86-5	100.0	ND	0.032
D038	Pyridine	110-86-1	√35.0	0.042i	0.018
D010	Selenium	7782-49-2	1.0	ND	0.023
D011	Silver	7440-22-4	5.0	ND	0.0035
D039	Tetrachloroethylene	127-18-4	0.7	ND	0.043
D015	Toxaphene	8001-35-2	0.5	ND	0.0035
D040	Trichloroethylene	79-01-6	0.5	ND	0.043
D041	2,4,5-Trichlorophenol	95-95-4	400.0	ND	0.035
D042	2,4,6-Trichlorophenol	88-06-2	2.0	ND	0.022
D017	2,4,5-TP (Silvex)	93-72-1	1.0	ND	0.0050
D043	Vinyl chloride	75-01-4	0.2	ND	0.049

Notes:

- \1\ Hazardous waste number
 \2\ Chemical abstracts service number
 \3\ Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.
 \4\ If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

i = Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J = Estimated value.

D = Compounds identified in an analysis at a secondary dilution factor.

ND = Not Detected.

Field sampling performed by Professional Technical Support Services, Inc.

All analytical work (except 2,4-D and 2,4,5-TP) conducted by Advanced Environmental Laboratories, Inc. of Jacksonville, Florida using the Toxicity Characteristic Leachate Procedure (TCLP). Pace Analytical Services, Inc. of Saint Rose, Louisiana conducted 2,4-D and 2,4,5-TP (Silvex) analyses.

Standards per 40 CFR, Part 261.24 (July 1, 1999)



**Advanced
Environmental Laboratories, Inc.**

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

Client: Trail Rdge Landfill, Inc.
Project Name: Trail Ridge Condensate
Project Number:

Report No.: J033738
Date Sampled: 7/2/2003
Date Received: 7/2/03 14:05
Date Reported: 7/23/2003

Attention: Linda Hair
Phone Number: 9042899100
Address: 5110 U.S. Highway 301
Baldwin, Florida 32234

Project Description

The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody.

Project Name: Trail Ridge Condensate

Approved By:

?

Paul Gunsaulies

Paul Gunsaulies, Project Manager

If you have any questions, the above named should be contacted.

Advanced Environmental Laboratories certifies that the test results in this report meet all requirements of the NELAC standards, unless notated otherwise in the body of the report.

Total Number of Pages =

9 + 2 COC

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Ridge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

Lab Code: J033738-01

Date/Time Sampled: 7/2/2003 10:30

Client Sample ID: 1

SampleType:

Site: Condensate

Sampled By: DSA/BR

Matrix: Water

Shipping Method: AEL

Field Parameters

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Color/Sheen	1			None			Field		
Conductivity	1			5000	µmhos/cm		Field		
Dissolved Oxygen	1			1.1	mg/L O2		Field		
pH (Field)	1			7.03	pH Units		Field		
Temperature	1			33	°C		Field		
Turbidity	1			6.7	NTU		Field		

TCLP Metals

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Arsenic	1	0.072	0.072	0.072	mg/L	U	SW6010B		J
Barium	1	0.0015	0.0015	0.11	mg/L		SW6010B		J
Cadmium	1	0.0025	0.0025	0.0025	mg/L	U	SW6010B		J
Chromium	1	0.0015	0.0015	0.0015	mg/L	U	SW6010B		J
Lead	1	0.0090	0.0090	0.0090	mg/L	U	SW6010B		J
Selenium	1	0.023	0.023	0.023	mg/L	U	SW6010B		J
Silver	1	0.0035	0.0035	0.0035	mg/L	U	SW6010B		J

TCLP Metals (Hg)

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Mercury	1	0.00033	0.00033	0.00033	mg/L	U	SW7470A		J

TCLP Pesticides

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Chlordane	50	0.20	9.8	9.8	ug/L	U	SW8081A		J
Endrin	50	0.014	0.70	0.70	ug/L	U	SW8081A		J
Gamma-BHC (Lindane)	50	0.0060	0.30	0.30	ug/L	U	SW8081A		J
Heptachlor	50	0.063	3.2	3.2	ug/L	U	SW8081A		J
Heptachlor Epoxide	50	0.013	0.65	0.65	ug/L	U	SW8081A		J
Methoxychlor	50	0.014	0.70	0.70	ug/L	U	SW8081A		J
Toxaphene	50	0.070	3.5	3.5	ug/L	U	SW8081A		J

TCLP Semi-Volatile Organic Compounds

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1,4-Dichlorobenzene	10	0.0029	0.029	0.029	mg/L	U	SW8270C		J
2,4,5-Trichlorophenol	10	0.0035	0.035	0.035	mg/L	U	SW8270C		J
2,4,6-Trichlorophenol	10	0.0022	0.022	0.022	mg/L	U	SW8270C		J
2,4-Dinitrotoluene	10	0.00094	0.0094	0.0094	mg/L	U	SW8270C		J
Cresols, Total	10	0.0085	0.085	1.1	mg/L		SW8270C		J
Hexachlorobenzene	10	0.0018	0.018	0.018	mg/L	U	SW8270C		J
Hexachlorobutadiene	10	0.0021	0.021	0.021	mg/L	U	SW8270C		J
Hexachloroethane	10	0.0028	0.028	0.028	mg/L	U	SW8270C		J
Nitrobenzene	10	0.0010	0.010	0.010	mg/L	U	SW8270C		J
Pentachlorophenol	10	0.0032	0.032	0.032	mg/L	U	SW8270C		J
Pyridine	10	0.0018	0.018	0.042	mg/L	i	SW8270C		J

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

TCLP Volatile Organic Hydrocarbons

Analytes:	Dilution	MDL	Adjusted Reporting Limit	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1,1-Dichloroethene	100	0.00050	0.050	0.050	mg/L	U	SW8260B		J
1,2-Dichloroethane	100	0.00036	0.036	0.036	mg/L	U	SW8260B		J
1,4-Dichlorobenzene	100	0.00030	0.030	0.030	mg/L	U	SW8260B		J
Benzene	100	0.00030	0.030	0.030	mg/L	U	SW8260B		J
Carbon Tetrachloride	100	0.00039	0.039	0.039	mg/L	U	SW8260B		J
Chlorobenzene	100	0.00031	0.031	0.031	mg/L	U	SW8260B		J
Chloroform	100	0.00041	0.041	0.041	mg/L	U	SW8260B		J
Methyl ethyl ketone	100	0.00070	0.070	16	mg/L		SW8260B		J
Tetrachloroethene	100	0.00043	0.043	0.043	mg/L	U	SW8260B		J
Trichloroethene	100	0.00043	0.043	0.043	mg/L	U	SW8260B		J
Vinyl Chloride	100	0.00049	0.049	0.049	mg/L	U	SW8260B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Analysis Date	Prep Method	Prep Date	Analys
Decachlorobiphenyl	30 - 120	93		SW8081A	7/16/2003	SW1311/SW3510C	7/14/2003 08:45:	MP
Tetrachloro-m-xylene	30 - 120	65		SW8081A	7/16/2003	SW1311/SW3510C	7/14/2003 08:45:	MP
1,2-Dichloroethane-d4	80 - 120	108		SW8260B	7/9/2003	SW1311/SW5030E	7/9/2003 13:12:0	BB
4-Bromofluorobenzene	86 - 115	114	J1	SW8260B	7/9/2003	SW1311/SW5030E	7/9/2003 13:12:0	BB
Toluene d(8)	88 - 110	104		SW8260B	7/9/2003	SW1311/SW5030E	7/9/2003 13:12:0	BB
2,4,6-Tribromophenol	19 - 122	101		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP
2-Fluorobiphenyl	25 - 121	86		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP
2-Fluorophenol	20 - 119	73		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP
Nitrobenzene d5	23 - 120	91		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP
p-Terphenyl-d14	18 - 167	119		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP
Phenol-d6	24 - 113	68		SW8270C	7/9/2003	SW3550B	7/7/2003 09:00:0	ZP

AIC Alternate initial calibration criteria used (mean RSD <15%)

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J1 Surrogate recovery limits have been exceeded.

U The compound was analyzed for but not detected.

J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Why did they
use dilution
So for
analyses
chloroform
Tetrahydro

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

Sample Cross Reference Information

Lab Code: J033738-01

Site: Condensate

Client Sample Number: 1

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
TCLP Extraction (Non-Volatile)	SW1311	NONE				oe070703tclp	7/7/2003
TCLP Extraction (Volatile)	SW1311	NONE				oe070703tclp	7/7/2003
TCLP Herbicides	SW8151A	SW1311/METHOD					
TCLP Metals	SW6010B	SW1311/SW3010A	M070803-3010 #2	7/9/2003 18:22	DS	M070803-3010 #2	7/8/2003 12:12:0
TCLP Metals (Hg)	SW7470A	SW1311/METHOD	M071403-HG #3	7/14/2003 15:49	TP	M071403-HG #3	7/14/2003 07:09:
TCLP Pesticides	SW8081A	SW1311/SW3510C	sv071603f-pest	7/16/2003 06:23	MP	SV071403-608	7/14/2003 08:45:
TCLP Semi-Volatile Organic Compounds	SW8270C	SW3550B	sv070803l2	7/9/2003 15:36	ZP	SV070703-BNA	7/7/2003 09:00:0
TCLP Volatile Organic Hydrocarbons	SW8260B	SW1311/SW5030B	v070903a	7/9/2003 13:12	BB		

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

Quality Assurance Report

Method Blanks

TCLP Metals							
QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
M070803-3010 #2	Arsenic	Method Blank	SW6010B	0.072	0.072	mg/L	U
M070803-3010 #2	Barium	Method Blank	SW6010B	0.0015	0.0030	mg/L	I
M070803-3010 #2	Cadmium	Method Blank	SW6010B	0.00036	0.00036	mg/L	U
M070803-3010 #2	Chromium	Method Blank	SW6010B	0.0015	0.0015	mg/L	U
M070803-3010 #2	Lead	Method Blank	SW6010B	0.0090	0.010	mg/L	I
M070803-3010 #2	Selenium	Method Blank	SW6010B	0.023	0.023	mg/L	U
M070803-3010 #2	Silver	Method Blank	SW6010B	0.0035	0.0035	mg/L	U

TCLP Metals (Hg)							
QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
M071403-HG #3	Mercury	Method Blank	SW7470A	0.00033	0.00033	mg/L	U

TCLP Semi-Volatile Organic Compounds							
QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
sv070803I2	1,4-Dichlorobenzene	Method Blank	SW8270C	0	0.0029	mg/L	U
sv070803I2	2,4,5-Trichlorophenol	Method Blank	SW8270C	0	0.0035	mg/L	U
sv070803I2	2,4,6-Trichlorophenol	Method Blank	SW8270C	0	0.0022	mg/L	U
sv070803I2	2,4-Dinitrotoluene	Method Blank	SW8270C	0	0.00094	mg/L	U
sv070803I2	Cresols, Total	Method Blank	SW8270C	0	0.0085	mg/L	U
sv070803I2	Hexachlorobenzene	Method Blank	SW8270C	0	0.0018	mg/L	U
sv070803I2	Hexachlorobutadiene	Method Blank	SW8270C	0	0.0021	mg/L	U
sv070803I2	Hexachloroethane	Method Blank	SW8270C	0	0.0028	mg/L	U
sv070803I2	Nitrobenzene	Method Blank	SW8270C	0	0.0010	mg/L	U
sv070803I2	Pentachlorophenol	Method Blank	SW8270C	0	0.0032	mg/L	U
sv070803I2	Pyridine	Method Blank	SW8270C	0	0.0018	mg/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
2-Fluorophenol	35	ug/L	70		20 - 119
Phenol-d6	32	ug/L	63		24 - 113
Nitrobenzene d5	51	ug/L	102		23 - 120
2-Fluorobiphenyl	45	ug/L	90		25 - 121
2,4,6-Tribromophenol	45	ug/L	91		19 - 122
p-Terphenyl-d14	61	ug/L	122		18 - 167

TCLP Pesticides							
QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
sv071603f-pest	Chlordane	Method Blank	SW8081A	0.20	0.20	ug/L	U
sv071603f-pest	Endrin	Method Blank	SW8081A	0.014	0.014	ug/L	U
sv071603f-pest	Gamma-BHC (Lindane)	Method Blank	SW8081A	0.0060	0.0060	ug/L	U
sv071603f-pest	Heptachlor	Method Blank	SW8081A	0.063	0.063	ug/L	U
sv071603f-pest	Heptachlor Epoxide	Method Blank	SW8081A	0.013	0.013	ug/L	U
sv071603f-pest	Methoxychlor	Method Blank	SW8081A	0.014	0.014	ug/L	U
sv071603f-pest	Toxaphene	Method Blank	SW8081A	0.070	0.070	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	0.63	ug/L	63		30 - 120
Decachlorobiphenyl	0.41	ug/L	82		30 - 120

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

TCLP Volatile Organic Hydrocarbons							
QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
v070903a	1,1-Dichloroethene	Method Blank	SW8260B	0.00050	0.00050	mg/L	U
v070903a	1,2-Dichloroethane	Method Blank	SW8260B	0.00036	0.00036	mg/L	U
v070903a	1,4-Dichlorobenzene	Method Blank	SW8260B	0.00030	0.00030	mg/L	U
v070903a	Benzene	Method Blank	SW8260B	0.00030	0.00030	mg/L	U
v070903a	Carbon Tetrachloride	Method Blank	SW8260B	0.00039	0.00039	mg/L	U
v070903a	Chlorobenzene	Method Blank	SW8260B	0.00031	0.00031	mg/L	U
v070903a	Chloroform	Method Blank	SW8260B	0.00041	0.00041	mg/L	U
v070903a	Methyl ethyl ketone	Method Blank	SW8260B	0.00025	0.00070	mg/L	U
v070903a	Tetrachloroethene	Method Blank	SW8260B	0.00043	0.00043	mg/L	U
v070903a	Trichloroethene	Method Blank	SW8260B	0.00043	0.00043	mg/L	U
v070903a	Vinyl Chloride	Method Blank	SW8260B	0.00049	0.00049	mg/L	U
Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits		
1,2-Dichloroethane-d4	53	ug/L	106		80 - 120		
Toluene d(8)	52	ug/L	104		88 - 110		
4-Bromofluorobenzene	59	ug/L	118	J1	86 - 115		

Quality Assurance Qualifiers:

- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- U The compound was analyzed for but not detected.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

Quality Assurance Report

Laboratory Control Spikes

Project #: J033738

QC Batch ID: M070803-3010 #2		Matrix: Water		Method: SW6010B		
Analyte	Spike Level	LCS Result	% Recovery	Acceptance Range	Qualifier(s)	
Arsenic	4	4.3	106	80 - 120		
Barium	4	4.0	101	80 - 120		
Cadmium	4	4.1	102	80 - 120		
Chromium	4	3.9	99	80 - 120		
Lead	4	4.0	100	80 - 120		
Selenium	4	4.2	106	80 - 120		
Silver	4	4.1	103	80 - 120		

QC Batch ID: M071403-HG #3		Matrix: Water		Method: SW7470A		
Analyte	Spike Level	LCS Result	% Recovery	Acceptance Range	Qualifier(s)	
Mercury	0.01	0.0097	97	85 - 115		

QC Batch ID: sv070803I2		Matrix: Water		Method: SW8270C		
Analyte	Spike Level	LCS Result	% Recovery	Acceptance Range		Qualifier(s)
1,2,4-Trichlorobenzene	20	14	68	17	- 97	
1,4-Dichlorobenzene	20	13	66	21	- 94	
2,4-Dinitrotoluene	20	13	66	4	- 133	
2-Chlorophenol	50	32	64	0	- 97	
4-Chloro-3-methylphenol	50	42	84	5	- 107	
4-Nitrophenol	50	33	66	0	- 111	
Acenaphthylene	20	15	75	12	- 118	
N-Nitrosodi-n-propylamine	20	14	69	12	- 116	
Pentachlorophenol	50	31	62	0	- 120	
Phenol	50	29	57	0	- 77	
Pyrene	20	22	108	20	- 157	
Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol	56	ug/L	111		19 - 122	
2-Fluorobiphenyl	37	ug/L	74		25 - 121	
2-Fluorophenol	32	ug/L	64		20 - 119	
Nitrobenzene d5	36	ug/L	72		23 - 120	
p-Terphenyl-d14	55	ug/L	110		18 - 167	
Phenol-d6	36	ug/L	73		24 - 113	
LCS Comment:						

QC Batch ID: sv071603f-pest		Matrix: Water		Method: SW8081A		
Analyte		Spike Level	LCS Result	% Recovery	Acceptance Range	Qualifier(s)
Endrin		0.2	0.19	95	-	
Gamma-BHC (Lindane)		0.2	0.15	76	-	
Heptachlor		0.2	0.16	78	-	
Heptachlor Epoxide		0.2	0.17	85	-	
Methoxychlor		0.2	0.22	109	-	
Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits	
Decachlorobiphenyl	0.43	ug/L	87		30	- 120
Tetrachloro-m-xylene	0.72	ug/L	72		30	- 120
LCS Comment:						

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

QC Batch ID: v070903a

Matrix: Water

Method: SW8260B

Analyte	Spike Level	LCS Result	% Recovery	Acceptance Range	Qualifier(s)
1,1-Dichloroethene	0.02	0.021	105	39 - 144	
Benzene	0.02	0.017	85	46 - 135	
Ethylbenzene	0.02	0.018	90	33 - 140	
Tetrachloroethene	0.02	0.018	90	24 - 164	
Toluene	0.02	0.018	90	44 - 135	
Trichloroethene	0.02	0.018	90	55 - 119	

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	51	ug/L	102		80 - 120
4-Bromofluorobenzene	54	ug/L	108		86 - 115
Toluene d(8)	50	ug/L	100		88 - 110

LCS Comment:

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Trail Rdge Landfill, Inc.

Report No.: J033738

Project Name: Trail Ridge Condensate

Date/Time Received: 7/2/03 14:05

Quality Assurance Report

Matrix Spike Recoveries

Project #: J033738

QC Batch ID v070903a		Method: SW8260B		Matrix: Soil		Ref. Sample: J033734-01		Client Sample ID: 20030624142		
Analyte	Spike Level	Units	Sample Result	Spike Result					%RPD	Qualifier
				MS	MSD	MS %R	MSD %R	Range		
1,1-Dichloroethene	0.020	mg/L	0	0.021	0.021	105	105	39 - 144	0	
Benzene	0.020	mg/L	0	0.019	0.018	95	90	46 - 135	5.4	
Tetrachloroethene	0.020	mg/L	0	0.018	0.019	90	95	24 - 164	5.4	
Trichloroethene	0.020	mg/L	0	0.019	0.019	95	95	55 - 119	0	
Surrogate	MS %R	MSD %R	MS/MSD Range	MS Qual	MSD Qual					
1,2-Dichloroethane-d4	102	102	80 - 120							
4-Bromofluorobenzene	110	110	86 - 115							
Toluene d(8)	100	102	88 - 110							

Definitions:

Water matrix refers to all aqueous matrices, including but not limited to, drinking water, wastewater, ground water, surface water, aqueous wastes and leachates

Soil matrix refers to all non-aqueous matrices, including soils, solids, sludges, semi-solids, and non-aqueous waste samples

All results in mg/kg or % are reported in dry weight basis, unless notated otherwise. All results in mg/L are reported in wet weight basis.

MDL Method Detection Limit, without correction for dilution or moisture content

Adjusted Reporting Limit is the MDL accounting for all dilutions and moisture content calculations.

PQL is defined to be 4 times the MDL, for all results qualified with an 'I' qualifie

The estimated measurements of uncertainty can be provided upon request

This is the last page of the analytical report.

Pace Analytical Services, Inc.
1000 Riverchase Blvd, Suite B
Brentwood, LA 70007
Phone: 504.469.0333
Fax: 504.469.0555



Report of Laboratory Analysis
Project Number: 2019648





Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbent Blvd. Suite F
Baton Rouge, LA 70807

Phone: 504.469.0000
Fax: 504.469.0000

Client: ADVANCED ENVIR. LABS, INC

Project: TCLP Herb

Project No.: 2019648

Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
J033738-01	20161810	Water	07/02/2003 10:30	07/09/2003 10:15

7/17/2003 14:03:44

Page 2 of 10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP) Drinking Water - LA000006
Florida Dept. of Health Hazardous Waste - EB7595
Kansas Dept. of Health & Environment ELW/WW - E-10266
New Jersey DEPE/Wastewater - 58082
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Laboratory Analysis

Pace Analytical Services, Inc.
1606 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.458.0333
Fax: 504.459.0555

www.pacelabs.com

Client: ADVANCED ENVIR. LABS, INC

Client ID: J033738-01

Site: None

Project: TCLP Herb

Project No.: 2019648

Sample Qu:

Lab ID: 20161810 Leachate

Matrix: Water

% Moisture: n/a

Description: None

Prep Level: Water

Batch: 27156

Method: SW 8151 TCLP Herbicides - 8150LLEA

Units: mg/L

Target List: 8150LLEA

Collected: 07/02/03

Received: 07/09/03

Prep Factor: 1

Leached: 07/07/03

Prepared: 07/10/03

Analyzed: 07/15/03 13:42 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	C3	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	C3	0.00500	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/17/2003 14:03:50

Page 3 of 10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (FLAP)/Drinking Water - LA200006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/CLW/WW - E-18266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (Fits)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverchase Blvd. Suite F
Saint Robert, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Leachate GC Herbicides

Project No.: 2019648

Batch: 27156

Units: mg/L

Parameter Name	LCS	LCS	LCS	LCS	MS	MS	MSD (1)	MS	DUP	QC Limits		Max	Qu
	Spike	%Rec	%Rec	RPD	Spike	%Rec	%Rec	RPD	RPD	LCS	MS/MSD	RPD	
2,4-D	100.00	70			100.00					47 - 120	19 - 154	50	
2,4-D	100.00	63			100.00					47 - 120	19 - 154	50	
2,4-D	100.00	73			100.00					47 - 120	19 - 154	50	
2,4-D	100.00	93			100.00	40	96	83 *		47 - 120	19 - 154	50	
2,4-D	100.00	93			100.00	40 *	96	83 *		50 - 127	50 - 150	25	Q1
2,4,5-TP (Silvex)	10.00	77			10.00					44 - 140	23 - 154	50	
2,4,5-TP (Silvex)	10.00	63			10.00					44 - 140	23 - 154	50	
2,4,5-TP (Silvex)	10.00	78			10.00					44 - 140	23 - 154	50	
2,4,5-TP (Silvex)	10.00	88			10.00	42	90	74 *		44 - 140	23 - 154	50	
2,4,5-TP (Silvex)	10.00	88			10.00	42 *	90	74 *		50 - 150	50 - 150	25	Q1

10 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

7/17/2003 14:03:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA00006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/DW or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverland Blvd, Suite F
Baton Rouge, LA 70807
Phone: 504-459-0773
Fax: 504-459-0200

www.pacelabs.com

Method: Leachate GC Herbicides

Report: 2019648

Batch: 27156

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20159067	Sample	97	84						
20159068	Sample	95	97						
20159069	Sample	76	89						
20159935	Sample	56	49						
20160503	Sample	48	45						
20160504	Sample	47	43						
20160505	Sample	50	47						
20161810	Sample	75	66						
27156B1	Blank	10	10						
27156B2	Blank	78	74						
27156B3	Blank	56	56						
27156B4	Blank	66	61						
27156MS	Spike	48	50						
27156MSD	Spike Dup	93	92						
27156S1	LCS	90	91						
27156S2	LCS	63	47						
27156S3	LCS	62	58						
27156S4	LCS	70	67						

QC limits: 2-172 0-187

Sur 1: 2,4-Dichlorophenylacetic acid (S)
Sur 2: 2,4-Dichlorophenylacetic acid (conf)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (LADH) Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - EB7595
Kansas Dept. of Health & Environment/LWHW - E-10266
New Jersey DEP/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/DW or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services
Foreign Soil Import (U.S. Territories)

7/17/2003 14:03:52



Report of Method Blank

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Pace Analytical Services, Inc.
1000 Riverchase Blvd. Suite F
Soud Rose, LA 70027
Phone: 504.459.0333
Fax: 504.459.0555

Lab ID: 27156B1

Description: Leachate Method Blan

Method: Leachate GC Herbicides

Project No.: 2019648

Batch: 27156

Units: ug/L

Prep Factor: 1

Leached:

Prepared: 24-Jun-03

Analyzed: 27-Jun-03 06:33 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND	C3	20.0
93-72-1	2,4,5-TP (Silvex)	1	ND	C3	5.00

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
D2 denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/7/2003 14:03:33

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LAD00006
Florida Dept. of Health/Hazardous Waste - E07525
Kansas Dept. of Health & Environment/ELW000 - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div. of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverchase Blvd. Suite 7
Saint Rose, LA 70087

Phone: 504.469.0000
Fax: 504.469.1111

www.pacelabs.com

Lab ID: 27156B2

Description: Leachate Method Blank

Method: Leachate GC Herbicides

Project No.: 2019648

Batch: 27156

Units: ug/L

Prep Factor: 1

Leached:

Prepared: 27-Jun-03

Analyzed: 01-Jul-03 14:46 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND	C3	20.0
93-72-1	2,4,5-TP (Silvex)	1	ND	C3	5.00

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/17/2003 14:03:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP) Drinking Water - LA000006
Florida Dept. of Health Hazardous Waste - F07595
Kansas Dept. of Health & Environment (ELW) - E-10266
New Jersey DEPEWastewater - 56002
Tennessee Dept. of Environment & Conservation Div. of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

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Pace Analytical Services, Inc.
1000 Forehand Blvd. Suite F
Saint Rose, LA 70087

Phone: 504 489 0333
Fax: 504 469 6585

Lab ID: 27156B3

Description: Leachate Method Blank

Project No.: 2019648

Method: Leachate GC Herbicides

Batch: 27156

Units: ug/L

Prep Factor: 1

Leached:

Prepared: 02-Jul-03

Analyzed: 07-Jul-03 23:14 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND	C3	20.0
93-72-1	2,4,5-TP (Silvex)	1	ND	C3	5.00

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/17/2003 14:03:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - (87535)
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 08002
Tennessee Dept. of Environment & Conservation/Div of UST (E-10)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
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Report of Method Blank

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite 2
Slidell, LA 70067

Phone: 504.469.0333
Fax: 504.469.0655

Lab ID: 27156B4

Description: Leachate Method Blank

Method: Leachate GC Herbicides

Project No.: 2019648

Batch: 27156

Units: ng/L

Prep Factor: 1

Leached:

Prepared: 10-Jul-03

Analyzed: 15-Jul-03

12:52

MLS

CAS Number	Parameter
94-75-7	2,4-D
93-72-1	2,4,5-TP (Silvex)

2 compound(s) reported

Dilution	Result	Qu	Reporting Limit
1	ND	C3	20.0
1	ND	C3	5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/17/2003 14:03:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP/Drinking Water) LA000006
Florida Dept. of Health/Hazardous Waste - 007395
Kansas Dept. of Health & Environment/EL WWTW - E-40266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Env or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
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Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverland Blvd., Suite F
Saint Rose, LA 70087

Phone 504.459.0333
Fax 504.459.0555

Project No.: **2019648**

Analyte Qualifiers

Qualifier	Qualifier Description
C3	The result for this parameter is not corrected for moisture content.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.

7/17/2003 14:03:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (FLAP/Drinking Water - LA000006)
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/WW - E-10236
New Jersey DEPE/Wastewater - 58802
Tennessee Dept. of Environment & Conservation/Div. of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

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- ✓ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
- ✓ Tampa: 5810-D Brockenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
- ✓ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

J033738

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