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SUPERFUND DIVISION

WATER
MANAGEMENT
CONSULTANTS

5988 MID RIVERS MALL DRIVE
ST CHARLES MISSOURI 63304 USA
TELEPHONE (314) 939 1920
TELEFAX (314) 939 9631

TES
Site Westlake Landfill
ID # MSD079900932
Broak 10.9 04#2
Other Progress Report
7-9-97
0714

Mr Steven Kinser
U S Environmental Protection Agency
Region VII
WSTM/SPFD/REML
726 Minnesota Avenue
Kansas City Kansas 66101

July 9 1997

Dear Mr Kinser

Monthly Progress Report June 1997
West Lake (Bridgeton) Landfill Operable Unit 2 RI/FS

On behalf of Laidlaw Waste Systems Inc (Laidlaw) Water Management Consultants Inc (WMCI) has prepared the following progress report in accordance with Section XIII Paragraph 39 of the Administrative Order on Consent (Consent Order) EPA Docket No VII 94 F 0025 The progress report describes activities conducted in June 1997

I ACTIONS TAKEN TO COMPLY WITH THE CONSENT ORDER

Activities conducted in June include completion of the second round of environmental sampling for Operable Unit 2 Validation of the results of the first sampling round was also continuing in June

II VALIDATED RESULTS RECEIVED

Validated results for landfill gas samples collected in the inactive landfill area were received in June Landfill gas sampling locations are shown in Figure 1 The samples for the LG series were collected in SUMMA canisters and submitted to Air Toxics Laboratory for analysis The SG series were field screened for Percent Oxygen Percent Lower Explosive Limit Hydrogen Sulfide and Volatile Organic Compounds as specified in the EPA approved RI/FS Work Plan Attachment 1 includes laboratory data sheets for the LG series samples Results for the SG series field screening samples are summarized on a separate table included in Attachment 1 The results are considered to be consistent with landfill gas components in solid waste landfills Data validation indicates that methylene chloride 1 2 4 trichlorobenzene and vinyl acetate results should be qualified as estimated because the percent recovery in the method spike was outside laboratory quality control limits The method spike results and laboratory blank results are included in Attachment 1

Attachment 2 presents soil total organic carbon (TOC) results for samples collected along the western portion of the inactive landfill The TOC results will be used as necessary to assist in fate and transport calculations

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SUPERFUND RECORDS

III WORK PLANNED DURING JULY AND AUGUST 1997

Activities planned for July and August 1997 include the following

- complete data validation of results for the first round of sampling (July) and
- conduct data validation results for the second round of sampling (July and August)

IV MATERIAL PROBLEMS ENCOUNTERED OR ANTICIPATED MATERIAL DELAYS

No material delays were encountered in June and none are anticipated for July and August

If you have any questions or comments please contact Mr Doug Borro the Respondent s designated Project Coordinator or the undersigned

Sincerely

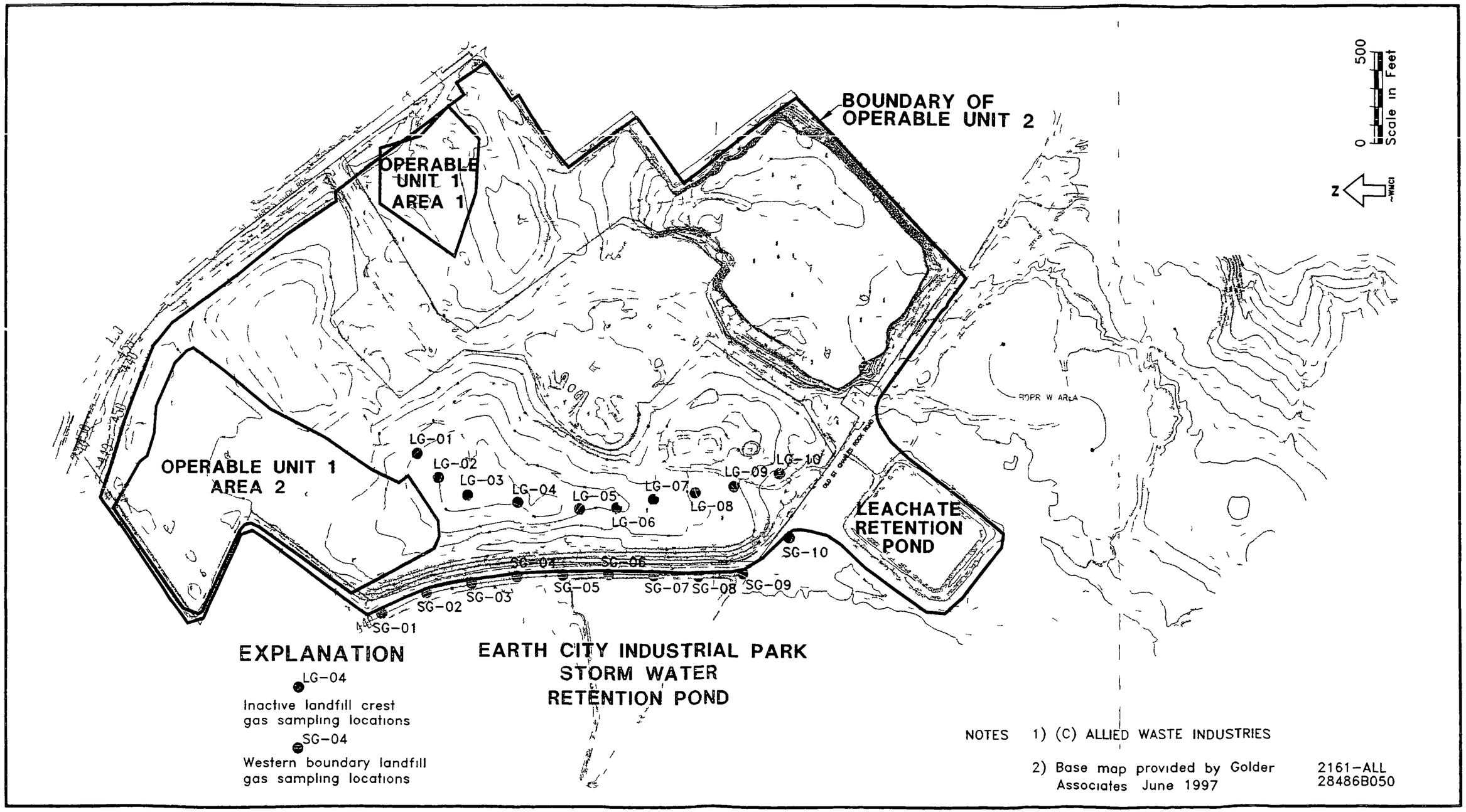
WATER MANAGEMENT CONSULTANTS INC

Ward E Herst CPHG CEM
Operations Manager

WEH/cg

cc Michael Hockley Esq Spencer Fane Britt & Browne
Doug Borro Allied Waste Systems Inc
Rod Bloese Allied Waste Systems Inc
Jalal El Jayyousi Missouri Department of Natural Resources
Paul Rosasco Engineering Management Support Inc

Figure 1 Landfill gas sampling locations



ATTACHMENT II – LANDFILL GAS RESULTS

West Lake Soil Gas Screening Results

Location	PID (ppm)	Percent Oxygen	Percent Lower Explosive Limit	Hydrogen Sulfide (ppm)
SG 01	0 0	20 8	0	0 0
SG 02	0 0	18 9	0	0 0
SG 03	7 6	14 4	2	0 0
SG 04	0 0	18 7	0	0 0
SG 05	10 1	18 3	0	0 0
SG 06	0 0	20 6	0	0 0
SG 07	0 0	20 7	0	0 0
SG 08	0 0	18 8	130	0 0
SG 09	0 0	14 0	0	0 0
SG 10	0 0	18 9	0	0 0

FOSTER
Environmental Services

July 3 1997

Mr Ward Herst
Water Management Consultants
5988 Mid Rivers Mall Drive
St Charles MO 63304

Dear Ward

Enclosed is a summary of the landfill gas results for the Bridgeton Landfill The first table includes all volatile organic results the second table includes only those results above the detection limit

If you have any questions or would like changes to the format please don t hesitate to call

Sincerely

Diane Foster

cc Doug Borro, without enclosures

PO Box 1245 Beach Haven New Jersey 08008 (609)492 6747

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	PARAMETER	QUALIFIER	VALUE	UNITS	DET LIMIT	SYNONYM
						LG 01
LG 01						2/4/97
	Acetone		150	ppbv	47	
	Benzene		180	ppbv	12	
	Bromoform	ND	0	ppbv	47	*Tribromomethane*
	Carbon disulfide		130	ppbv	47	
	Carbon tetrachloride	ND	0	ppbv	12	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	12	
	Chloroethane		250	ppbv	12	
	Chloroform	ND	0	ppbv	12	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	12	
	Dibromochloromethane	ND	0	ppbv	47	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	12	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	12	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	12	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	12	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	47	*Bromodichloromethane*
	Dichlorodifluoromethane		760	ppbv	12	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	12	
	1 2 Dichloroethane	ND	0	ppbv	12	
	1 1 Dichloroethylene	ND	0	ppbv	12	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	12	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	47	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	12	
	cis 1 3 Dichloropropylene	ND	0	ppbv	12	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	12	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		410	ppbv	12	
	Ethylbenzene	ND	0	ppbv	12	
	4 Ethyltoluene	ND	0	ppbv	47	
	Hexachlorobutadiene	ND	0	ppbv	12	
	2 Hexanone	ND	0	ppbv	47	
	Methyl bromide	ND	0	ppbv	12	*Bromomethane*
	Methyl chloride	ND	0	ppbv	12	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	47	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	47	*4 Methyl 2 pentanone*
	Methylene chloride		13	ppbv	12	*Dichloromethane*
	Styrene	ND	0	ppbv	12	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	12	
	Tetrachloroethylene	ND	0	ppbv	12	*Tetrachloroethene*
	Toluene		1200	ppbv	12	*Methylbenzene*

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 01
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	12	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	12	
	1 1 1 Trichloroethane	ND	0	ppbv	12	
	1 1 2 Trichloroethane	ND	0	ppbv	12	
	Trichloroethylene	ND	0	ppbv	12	*Trichloroethene*
	Trichlorofluoromethane		14	ppbv	12	*Freon 11*
	1 2 4 Trimethylbenzene	ND	0	ppbv	12	
	1 3 5 Trimethylbenzene	ND	0	ppbv	12	
	Vinyl acetate	ND	0	ppbv	47	*Acetic acid ethenyl ester*
	Vinyl chloride		120	ppbv	12	*Chloroethylene*
	m+p Xylenes	ND	0	ppbv	12	
	o Xylene	ND	0	ppbv	12	
LG 02						2/4/97
	Acetone	ND	0	ppbv	54	
	Benzene	ND	0	ppbv	13	
	Bromoform	ND	0	ppbv	54	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	54	
	Carbon tetrachloride	ND	0	ppbv	13	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	13	
	Chloroethane	ND	0	ppbv	13	
	Chloroform	ND	0	ppbv	13	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	13	
	Dibromochloromethane	ND	0	ppbv	54	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	13	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	13	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	13	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	13	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	54	*Bromodichloromethane*
	Dichlorodifluoromethane		32	ppbv	13	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	13	
	1 2 Dichloroethane	ND	0	ppbv	13	
	1 1 Dichloroethylene	ND	0	ppbv	13	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	13	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	54	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	13	
	cis 1 3 Dichloropropylene	ND	0	ppbv	13	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	13	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane	ND	0	ppbv	13	

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 02
	Ethylbenzene	ND	0	ppbv	13	
	4 Ethyltoluene	ND	0	ppbv	54	
	Hexachlorobutadiene	ND	0	ppbv	13	
	2 Hexanone	ND	0	ppbv	54	
	Methyl bromide	ND	0	ppbv	13	*Bromomethane*
	Methyl chloride	ND	0	ppbv	13	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	54	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	54	*4 Methyl 2 pentanone*
	Methylene chloride	ND	0	ppbv	13	*Dichloromethane*
	Styrene	ND	0	ppbv	13	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	13	
	Tetrachloroethylene	ND	0	ppbv	13	*Tetrachloroethene*
	Toluene	ND	0	ppbv	13	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	13	*Freon 11*
	1 2 4 Trichlorobenzene	ND	0	ppbv	13	
	1 1 1 Trichloroethane	ND	0	ppbv	13	
	1 1 2 Trichloroethane	ND	0	ppbv	13	
	Trichloroethylene	ND	0	ppbv	13	*Trichloroethen*
	Trichlorofluoromethane	ND	0	ppbv	13	*Freon 11*
	1 2 4 Trimethylbenzene	ND	0	ppbv	13	
	1 3 5 Trimethylbenzene	ND	0	ppbv	13	
	Vinyl acetate	ND	0	ppbv	54	*Acetic acid ethenyl ester*
	Vinyl chloride	ND	0	ppbv	13	*Chloroethylene*
	m+p Xylenes	ND	0	ppbv	13	
	o Xylene	ND	0	ppbv	13	
LG-03						2/4/97
	Acetone		21	ppbv	15	
	Benzene		110	ppbv	3 7	
	Bromoform	ND	0	ppbv	15	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	15	
	Carbon tetrachloride	ND	0	ppbv	3 7	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	3 7	
	Chloroethane		120	ppbv	3 7	
	Chloroform	ND	0	ppbv	3 7	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	3 7	
	Dibromochloromethane	ND	0	ppbv	15	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	3 7	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	3 7	*o Dichlorobenzene*

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	PARAMETER	QUALIFIER	VALUE	UNITS	DET LIMIT	SYNONYM
						LG 03
	1 3 Dichlorobenzene	ND	0	ppbv	3 7	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	3 7	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	15	*Bromodichloromethane*
	Dichlorodifluoromethane		46	ppbv	3 7	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	3 7	
	1 2 Dichloroethane	ND	0	ppbv	3 7	
	1 1 Dichloroethylene	ND	0	ppbv	3 7	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	3 7	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	15	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	3 7	
	cis 1 3 Dichloropropylene	ND	0	ppbv	3 7	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	3 7	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		140	ppbv	3 7	
	Ethylbenzene		7 2	ppbv	3 7	
	4 Ethyltoluene	ND	0	ppbv	15	
	Hexachlorobutadiene	ND	0	ppbv	3 7	
	2 Hexanone	ND	0	ppbv	15	
	Methyl bromide	ND	0	ppbv	3 7	*Bromomethane*
	Methyl chloride	ND	0	ppbv	3 7	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	15	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	15	*4 Methyl 2 pentanone*
	Methylene chloride		4 1	ppbv	3 7	*Dichloromethane*
	Styrene	ND	0	ppbv	3 7	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	3 7	
	Tetrachloroethylene	ND	0	ppbv	3 7	*Tetrachloroethene*
	Toluene		5 8	ppbv	3 7	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	3 7	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	3 7	
	1 1 1 Trichloroethane	ND	0	ppbv	3 7	
	1 1 2 Trichloroethane	ND	0	ppbv	3 7	
	Trichloroethylene	ND	0	ppbv	3 7	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	3 7	*Freon 11*
	1 2 4 Trimethylbenzene	BDL	2 9	ppbv	3 7	
	1 3 5 Trimethylbenzene	ND	0	ppbv	3 7	
	Vinyl acetate	ND	0	ppbv	15	*Acetic acid ethenyl ester*
	Vinyl chloride		61	ppbv	3 7	*Chloroethylene*
	m+p Xylenes		4	ppbv	3 7	
	o Xylene	ND	0	ppbv	3 7	

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 04
LG 04						2/4/97
	Acetone		32	ppbv	18	
	Benzene		92	ppbv	4 4	
	Bromoform	ND	0	ppbv	18	*Tribromomethane*
	Carbon disulfide		22	ppbv	18	
	Carbon tetrachloride	ND	0	ppbv	4 4	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	4 4	
	Chloroethane		87	ppbv	4 4	
	Chloroform	ND	0	ppbv	4 4	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	4 4	
	Dibromochloromethane	ND	0	ppbv	18	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	4 4	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	4 4	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	4 4	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	4 4	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	18	*Bromodichloromethane*
	Dichlorodifluoromethane		98	ppbv	4 4	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	4 4	
	1 2 Dichloroethane	ND	0	ppbv	4 4	
	1 1 Dichloroethylene	ND	0	ppbv	4 4	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene		7 1	ppbv	4 4	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	18	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	4 4	
	cis 1 3 Dichloropropylene	ND	0	ppbv	4 4	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	4 4	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		180	ppbv	4 4	
	Ethylbenzene		5	ppbv	4 4	
	4 Ethyltoluene	ND	0	ppbv	18	
	Hexachlorobutadiene	ND	0	ppbv	4 4	
	2 Hexanone	ND	0	ppbv	18	
	Methyl bromide	ND	0	ppbv	4 4	*Bromomethane*
	Methyl chloride	ND	0	ppbv	4 4	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	18	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	18	*4 Methyl 2 pentanone*
	Methylene chloride		5 8	ppbv	4 4	*Dichloromethane*
	Styrene	ND	0	ppbv	4 4	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	4 4	
	Tetrachloroethylene	ND	0	ppbv	4 4	*Tetrachloroethene*
	Toluene		13	ppbv	4 4	*Methylbenzene*

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 04
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	4 4	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	4 4	
	1 1 1 Trichloroethane	ND	0	ppbv	4 4	
	1 1 2 Trichloroethane	ND	0	ppbv	4 4	
	Trichloroethylene	ND	0	ppbv	4 4	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	4 4	*Freon 11*
	1 2 4 Trimethylbenzene	BDL	2 3	ppbv	4 4	
	1 3 5 Trimethylbenzene	ND	0	ppbv	4 4	
	Vinyl acetate	ND	0	ppbv	18	*Acetic acid ethenyl ester*
	Vinyl chloride		76	ppbv	4 4	*Chloroethylene*
	m+p Xylenes		6 6	ppbv	4 4	
	o Xylene	ND	0	ppbv	4 4	
LG 05						2/4/97
	Acetone		24000	ppbv	190	
	Benzene	ND	0	ppbv	48	
	Bromoform	ND	0	ppbv	190	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	190	
	Carbon tetrachloride	ND	0	ppbv	48	*Tetrachloromethane*
	Chlorobenzene		1100	ppbv	48	
	Chloroethane	ND	0	ppbv	48	
	Chloroform	ND	0	ppbv	48	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	48	
	Dibromochloromethane	ND	0	ppbv	190	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	48	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	48	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	48	*m Dichlorobenzene*
	1 4 Dichlorobenzene		66	ppbv	48	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	190	*Bromodichloromethane*
	Dichlorodifluoromethane	ND	0	ppbv	48	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	48	
	1 2 Dichloroethane	ND	0	ppbv	48	
	1 1 Dichloroethylene	ND	0	ppbv	48	*1 1 Dichloroethene*
	1 2 cis Dichloroethylene	ND	0	ppbv	48	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	190	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	48	
	cis 1 3 Dichloropropylene	ND	0	ppbv	48	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	48	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane	ND	0	ppbv	48	

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 05
	Ethylbenzene		210	ppbv	48	
	4 Ethyltoluene	ND	0	ppbv	190	
	Hexachlorobutadiene	ND	0	ppbv	48	
	2 Hexanone	ND	0	ppbv	190	
	Methyl bromide	ND	0	ppbv	48	*Bromomethane*
	Methyl chloride	ND	0	ppbv	48	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	190	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	190	*4 Methyl 2 pentanone*
	Methylene chloride	ND	0	ppbv	48	*Dichloromethane*
	Styrene	ND	0	ppbv	48	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	48	
	Tetrachloroethylene	ND	0	ppbv	48	*Tetrachloroethene*
	Toluene	ND	0	ppbv	48	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	48	*Freon 11*
	1 2 4 Trichlorobenzene	ND	0	ppbv	48	
	1 1 1 Trichloroethane	ND	0	ppbv	48	
	1 1 2 Trichloroethane	ND	0	ppbv	48	
	Trichloroethylene	ND	0	ppbv	48	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	48	*Freon 11*
	1 2 4 Trimethylbenzene		260	ppbv	48	
	1 3 5 Trimethylbenzene		68	ppbv	48	
	Vinyl acetate	ND	0	ppbv	190	*Acetic acid ethenyl ester*
	Vinyl chloride	ND	0	ppbv	48	*Chloroethylene*
	m+p Xylenes		360	ppbv	48	
	o Xylene		200	ppbv	48	
LG-06						**2/4/97**
	Acetone		40	ppbv	3 3	
	Benzene		1 3	ppbv	0 82	
	Bromoform	ND	0	ppbv	3 3	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	3 3	
	Carbon tetrachloride	ND	0	ppbv	0 82	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	0 82	
	Chloroethane	ND	0	ppbv	0 82	
	Chloroform	ND	0	ppbv	0 82	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	0 82	
	Dibromochloromethane	ND	0	ppbv	3 3	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	0 82	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	0 82	*o Dichlorobenzene*

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	PARAMETER	QUALIFIER	VALUE	UNITS	DET LIMIT	SYNONYM
						LG 06
	1 3 Dichlorobenzene	ND	0	ppbv	0 82	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	0 82	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	3 3	*Bromodichloromethane*
	Dichlorodifluoromethane		1 6	ppbv	0 82	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	0 82	
	1 2 Dichloroethane	ND	0	ppbv	0 82	
	1 1 Dichloroethylene	ND	0	ppbv	0 82	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	0 82	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	3 3	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	0 82	
	cis 1 3 Dichloropropylene	ND	0	ppbv	0 82	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	0 82	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		0 88	ppbv	0 82	
	Ethylbenzene	ND	0	ppbv	0 82	
	4 Ethyltoluene	ND	0	ppbv	3 3	
	Hexachlorobutadiene	ND	0	ppbv	0 82	
	2 Hexanone	ND	0	ppbv	3 3	
	Methyl bromide	ND	0	ppbv	0 82	*Bromomethane*
	Methyl chloride	ND	0	ppbv	0 82	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	3 3	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	3 3	*4 Methyl 2 pentanone*
	Methylene chloride	ND	0	ppbv	0 82	*Dichloromethane*
	Styrene	ND	0	ppbv	0 82	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	0 82	
	Tetrachloroethylene	ND	0	ppbv	0 82	*Tetrachloroethene*
	Toluene		2 3	ppbv	0 82	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	0 82	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	0 82	
	1 1 1 Trichloroethane	ND	0	ppbv	0 82	
	1 1 2 Trichloroethane	ND	0	ppbv	0 82	
	Trichloroethylene	ND	0	ppbv	0 82	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	0 82	*Freon 11*
	1 2 4 Trimethylbenzene		2 6	ppbv	0 82	
	1 3 5 Trimethylbenzene	ND	0	ppbv	0 82	
	Vinyl acetate	ND	0	ppbv	3 3	*Acetic acid ethenyl ester*
	Vinyl chloride		0 9	ppbv	0 82	*Chloroethylene*
	m+p Xylenes		2 3	ppbv	0 82	
	o Xylene		1 4	ppbv	0 82	

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 06 D
LG 06-D	*Field Duplicate*					2/4/97
	Acetone		44	ppbv	4	
	Benzene		1 3	ppbv	0 99	
	Bromoform	ND	0	ppbv	4	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	4	
	Carbon tetrachloride	ND	0	ppbv	0 99	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	0 99	
	Chloroethane	ND	0	ppbv	0 99	
	Chloroform	ND	0	ppbv	0 99	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	0 99	
	Dibromochloromethane	ND	0	ppbv	4	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	0 99	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	0 99	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	0 99	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	0 99	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	4	*Bromodichloromethane*
	Dichlorodifluoromethane		1 7	ppbv	0 99	*Freon 1*
	1 1 Dichloroethane	ND	0	ppbv	0 99	
	1 2 Dichloroethane	ND	0	ppbv	0 99	
	1 1 Dichloroethylene	ND	0	ppbv	0 99	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	0 99	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	4	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	0 99	
	cis 1 3 Dichloropropylene	ND	0	ppbv	0 99	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	0 99	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		0 82	ppbv	0 99	
	Ethylbenzene	ND	0	ppbv	0 99	
	4 Ethyltoluene	ND	0	ppbv	4	
	Hexachlorobutadiene	ND	0	ppbv	0 99	
	2 Hexanone	ND	0	ppbv	4	
	Methyl bromide	ND	0	ppbv	0 99	*Bromomethane*
	Methyl chloride	ND	0	ppbv	0 99	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	4	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	4	*4 Methyl 2 pentanone*
	Methylene chloride	ND	0	ppbv	0 99	*Dichloromethane*
	Styrene	ND	0	ppbv	0 99	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	0 99	
	Tetrachloroethylene	ND	0	ppbv	0 99	*Tetrachloroethene*
	Toluene		2 5	ppbv	0 99	*Methylbenzene*

VOLATILE ORGANICS ANALYSIS

SAMPLE	PARAMETER	QUALIFIER	VALUE	UNITS	DET LIMIT	SYNONYM
						LG 06 D
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	0 99	Freon 113
	1 2 4 Trichlorobenzene	ND	0	ppbv	0 99	
	1 1 1 Trichloroethane	ND	0	ppbv	0 99	
	1 1 2 Trichloroethane	ND	0	ppbv	0 99	
	Trichloroethylene	ND	0	ppbv	0 99	Trichloroethene
	Trichlorofluoromethane	ND	0	ppbv	0 99	Freon 11
	1 2 4 Trimethylbenzene		2 8	ppbv	0 99	
	1 3 5 Trimethylbenzene	ND	0	ppbv	0 99	
	Vinyl acetate	ND	0	ppbv	4	Acetic acid ethenyl ester
	Vinyl chloride		0 86	ppbv	0 99	Chloroethylene
	m+p Xylenes		2 4	ppbv	0 99	
	o Xylene		1 5	ppbv	0 99	
LG 07						2/4/97
	Acetone	ND	0	ppbv	200	
	Benzene	ND	0	ppbv	51	
	Bromoform	ND	0	ppbv	200	Tribromomethane
	Carbon disulfide	ND	0	ppbv	200	
	Carbon tetrachloride	ND	0	ppbv	51	Tetrachloromethane
	Chlorobenzene		280	ppbv	51	
	Chloroethane	ND	0	ppbv	51	
	Chloroform	ND	0	ppbv	51	Trichloromethane
	Chlorotoluene	ND	0	ppbv	51	
	Dibromochloromethane	ND	0	ppbv	200	Chlorodibromomethane
	1 2 Dibromoethane	ND	0	ppbv	51	Ethylene Dibromide
	1 2 Dichlorobenzene	ND	0	ppbv	51	o Dichlorobenzene
	1 3 Dichlorobenzene	ND	0	ppbv	51	m Dichlorobenzene
	1 4 Dichlorobenzene	ND	0	ppbv	51	p Dichlorobenzene
	Dichlorobromomethane	ND	0	ppbv	200	Bromodichloromethane
	Dichlorodifluoromethane		230	ppbv	51	Freon 12
	1 1 Dichloroethane	ND	0	ppbv	51	
	1 2 Dichloroethane	ND	0	ppbv	51	
	1 1 Dichloroethylene	ND	0	ppbv	51	1 1 Dichloroethene
	1 2-cis Dichloroethylene	ND	0	ppbv	51	1 2 cis Dichloroethene
	1 2 trans Dichloroethylene	ND	0	ppbv	200	1 2 trans Dichloroethene
	1 2 Dichloropropane	ND	0	ppbv	51	
	cis 1 3 Dichloropropylene	ND	0	ppbv	51	cis 1 3 Dichloropropene
	trans 1 3 Dichloropropylene	ND	0	ppbv	51	trans 1 3 Dichloropropene
	1 2 Dichlorotetrafluoroethane		140	ppbv	51	

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 07
	Ethylbenzene	ND	0	ppbv	51	
	4 Ethyltoluene	ND	0	ppbv	200	
	Hexachlorobutadiene	ND	0	ppbv	51	
	2 Hexanone	ND	0	ppbv	200	
	Methyl bromide	ND	0	ppbv	51	*Bromomethane*
	Methyl chloride	ND	0	ppbv	51	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	200	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	200	*4 Methyl 2 pentanone*
	Methylene chloride		61	ppbv	51	*Dichloromethane*
	Styrene	ND	0	ppbv	51	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	51	
	Tetrachloroethylene	ND	0	ppbv	51	*Tetrachloroethene*
	Toluene	ND	0	ppbv	51	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	51	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	51	
	1 1 1 Trichloroethane	ND	0	ppbv	51	
	1 1 2 Trichloroethane	ND	0	ppbv	51	
	Trichloroethylene	ND	0	ppbv	51	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	51	*Freon 11*
	1 2 4 Trimethylbenzene	ND	0	ppbv	51	
	1 3 5 Trimethylbenzene	ND	0	ppbv	51	
	Vinyl acetate	ND	0	ppbv	200	*Acetic acid ethenyl ester*
	Vinyl chloride	ND	0	ppbv	51	*Chloroethylene*
	m+p Xylenes		100	ppbv	51	
	o Xylene	ND	0	ppbv	51	
LG-08						2/4/97
	Acetone		430	ppbv	63	
	Benzene		410	ppbv	16	
	Bromoform	ND	0	ppbv	63	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	63	
	Carbon tetrachloride	ND	0	ppbv	16	*Tetrachloromethane*
	Chlorobenzene		150	ppbv	16	
	Chloroethane		110	ppbv	16	
	Chloroform	ND	0	ppbv	16	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	16	
	Dibromochloromethane	ND	0	ppbv	63	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	16	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	16	*o Dichlorobenzene*

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS

February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 08
	1 3 Dichlorobenzene	ND	0	ppbv	16	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	16	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	63	*Bromodichloromethane*
	Dichlorodifluoromethane		600	ppbv	16	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	16	
	1 2 Dichloroethane	ND	0	ppbv	16	
	1 1 Dichloroethylene	ND	0	ppbv	16	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	16	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	63	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	16	
	cis 1 3 Dichloropropylene	ND	0	ppbv	16	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	16	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		520	ppbv	16	
	Ethylbenzene		52	ppbv	16	
	4 Ethyltoluene	ND	0	ppbv	63	
	Hexachlorobutadiene	ND	0	ppbv	16	
	2 Hexanone	ND	0	ppbv	63	
	Methyl bromide	ND	0	ppbv	16	*Bromomethane*
	Methyl chloride	ND	0	ppbv	16	*Chloromethane*
	Methyl ethyl ketone		180	ppbv	63	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	63	*4 Methyl 2 pentanone*
	Methylene chloride		22	ppbv	16	*Dichloromethane*
	Styrene	ND	0	ppbv	16	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	16	
	Tetrachloroethylene	ND	0	ppbv	16	*Tetrachloroethene*
	Toluene		200	ppbv	16	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	16	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	16	
	1 1 1 Trichloroethane	ND	0	ppbv	16	
	1 1 2 Trichloroethane	ND	0	ppbv	16	
	Trichloroethylene	ND	0	ppbv	16	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	16	*Freon 11*
	1 2 4 Trimethylbenzene	ND	0	ppbv	16	
	1 3 5 Trimethylbenzene	ND	0	ppbv	16	
	Vinyl acetate	ND	0	ppbv	63	*Acetic acid ethenyl ester*
	Vinyl chloride		740	ppbv	16	*Chloroethylene*
	m+p Xylenes		130	ppbv	16	
	o Xylene		49	ppbv	16	

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 09
LG 09						2/6/97
	Acetone	ND	0	ppbv	61	
	Benzene		190	ppbv	15	
	Bromoform	ND	0	ppbv	61	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	61	
	Carbon tetrachloride	ND	0	ppbv	15	*Tetrachloromethane*
	Chlorobenzene	ND	0	ppbv	15	
	Chloroethane	ND	0	ppbv	15	
	Chloroform	ND	0	ppbv	15	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	15	
	Dibromochloromethane	ND	0	ppbv	61	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	15	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	15	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	15	*m Dichlorobenzene*
	1 4 Dichlorobenzene	ND	0	ppbv	15	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	61	*Bromodichloromethane*
	Dichlorodifluoromethane		78	ppbv	15	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	15	
	1 2 Dichloroethane	ND	0	ppbv	15	
	1 1 Dichloroethylene	ND	0	ppbv	15	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	15	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	61	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	15	
	cis 1 3 Dichloropropylene	ND	0	ppbv	15	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	15	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane	ND	0	ppbv	15	
	Ethylbenzene	ND	0	ppbv	15	
	4 Ethyltoluene	ND	0	ppbv	61	
	Hexachlorobutadiene	ND	0	ppbv	15	
	2 Hexanone	ND	0	ppbv	61	
	Methyl bromide	ND	0	ppbv	15	*Bromomethane*
	Methyl chloride	ND	0	ppbv	15	*Chloromethane*
	Methyl ethyl ketone	ND	0	ppbv	61	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	61	*4 Methyl 2 pentanone*
	Methylene chloride		17	ppbv	15	*Dichloromethane*
	Styrene	ND	0	ppbv	15	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	15	
	Tetrachloroethylene	ND	0	ppbv	15	*Tetrachloroethene*
	Toluene		34	ppbv	15	*Methylbenzene*

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						LG 09
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	15	*Freon 113*
	1 2 4 Trichlorobenzene	ND	0	ppbv	15	
	1 1 1 Trichloroethane	ND	0	ppbv	15	
	1 1 2 Trichloroethane	ND	0	ppbv	15	
	Trichloroethylene	ND	0	ppbv	15	*Trichloroethene*
	Trichlorofluoromethane	ND	0	ppbv	15	*Freon 11*
	1 2 4 Trimethylbenzene	ND	0	ppbv	15	
	1 3 5 Trimethylbenzene	ND	0	ppbv	15	
	Vinyl acetate	ND	0	ppbv	61	*Acetic acid ethenyl ester*
	Vinyl chloride		100	ppbv	15	*Chloroethylene*
	m+p Xylenes		22	ppbv	15	
	o Xylene	ND	0	ppbv	15	
LG 10						2/6/97
	Acetone		84	ppbv	6 6	
	Benzene		81	ppbv	1 6	
	Bromoform	ND	0	ppbv	6 6	*Tribromomethane*
	Carbon disulfide	ND	0	ppbv	6 6	
	Carbon tetrachloride	ND	0	ppbv	1 6	*Tetrachloromethane*
	Chlorobenzene		670	ppbv	1 6	
	Chloroethane	ND	0	ppbv	1 6	
	Chloroform	ND	0	ppbv	1 6	*Trichloromethane*
	Chlorotoluene	ND	0	ppbv	1 6	
	Dibromochloromethane	ND	0	ppbv	6 6	*Chlorodibromomethane*
	1 2 Dibromoethane	ND	0	ppbv	1 6	*Ethylene Dibromide*
	1 2 Dichlorobenzene	ND	0	ppbv	1 6	*o Dichlorobenzene*
	1 3 Dichlorobenzene	ND	0	ppbv	1 6	*m Dichlorobenzene*
	1 4 Dichlorobenzene		12	ppbv	1 6	*p Dichlorobenzene*
	Dichlorobromomethane	ND	0	ppbv	6 6	*Bromodichloromethane*
	Dichlorodifluoromethane		2	ppbv	1 6	*Freon 12*
	1 1 Dichloroethane	ND	0	ppbv	1 6	
	1 2 Dichloroethane	ND	0	ppbv	1 6	
	1 1 Dichloroethylene	ND	0	ppbv	1 6	*1 1 Dichloroethene*
	1 2-cis Dichloroethylene	ND	0	ppbv	1 6	*1 2 cis Dichloroethene*
	1 2 trans Dichloroethylene	ND	0	ppbv	6 6	*1 2 trans Dichloroethene*
	1 2 Dichloropropane	ND	0	ppbv	1 6	
	cis 1 3 Dichloropropylene	ND	0	ppbv	1 6	*cis 1 3 Dichloropropene*
	trans 1 3 Dichloropropylene	ND	0	ppbv	1 6	*trans 1 3 Dichloropropene*
	1 2 Dichlorotetrafluoroethane		1 9	ppbv	1 6	

TABLE A1

VOLATILE ORGANICS ANALYSIS

LANDFILL GAS
February 1997

SAMPLE	*PARAMETER*	*QUALIFIER*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
						I G 10
	Ethylbenzene		240	ppbv	1 6	
	4 Ethyltoluene		46	ppbv	6 6	
	Hexachlorobutadiene	ND	0	ppbv	1 6	
	2 Hexanone	ND	0	ppbv	6 6	
	Methyl bromide	ND	0	ppbv	1 6	*Bromomethane*
	Methyl chloride	ND	0	ppbv	1 6	*Chloromethane*
	Methyl ethyl ketone		81	ppbv	6 6	*2 Butanone*
	Methyl iso butyl ketone	ND	0	ppbv	6 6	*4 Methyl 2 pentanone*
	Methylene chloride		1 7	ppbv	1 6	*Dichloromethane*
	Styrene	ND	0	ppbv	1 6	*Ethenylbenzene*
	1 1 2 2 Tetrachloroethane	ND	0	ppbv	1 6	
	Tetrachloroethylene	ND	0	ppbv	1 6	*Tetrachloroethene*
	Toluene		210	ppbv	1 6	*Methylbenzene*
	1 1 2 Trichloro 1 2 2 trifluoroethane	ND	0	ppbv	1 6	*Freon 11*
	1 2 4 Trichlorobenzene	ND	0	ppbv	1 6	
	1 1 1 Trichloroethane	ND	0	ppbv	1 6	
	1 1 2 Trichloroethane	ND	0	ppbv	1 6	
	Trichloroethylene	ND	0	ppbv	1 6	*Trichloroethene*
	Trichlorofluoromethane		20	ppbv	1 6	*Freon 11*
	1 2 4 Trimethylbenzene		44	ppbv	1 6	
	1 3 5 Trimethylbenzene		24	ppbv	1 6	
	Vinyl acetate	ND	0	ppbv	6 6	*Acetic acid ethenyl ester*
	Vinyl chloride	ND	0	ppbv	1 6	*Chloroethylene*
	m+p Xylenes		640	ppbv	1 6	
	o Xylene		270	ppbv	1 6	

TABLE A2

RESULTS ABOVE DETECTION LIMIT

LANDFILL GAS
February 1997

PARAMETER	*SAMPLE POINT*	*DATE*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
Acetone						
	LG 01	2/4/97	150	ppbv	47	
	LG 03	2/4/97	21	ppbv	15	
	LG-04	2/4/97	32	ppbv	18	
	LG 05	2/4/97	24000	ppbv	190	
	LG 06	2/4/97	40	ppbv	3 3	
	LG 06 D	2/4/97	44	ppbv	4	*Field Duplicate*
	LG 08	2/4/97	430	ppbv	63	
	LG 10	2/6/97	84	ppbv	6 6	
Benzene						
	LG 01	2/4/97	180	ppbv	12	
	LG 03	2/4/97	110	ppbv	3 7	
	LG-04	2/4/97	92	ppbv	4 4	
	LG-06	2/4/97	1 3	ppbv	0 82	
	LG 06 D	2/4/97	1 3	ppbv	0 99	*Field Duplicate*
	LG 08	2/4/97	410	ppbv	16	
	LG 09	2/6/97	190	ppbv	15	
	LG 10	2/6/97	81	ppbv	1 6	
Carbon disulfide						
	LG 01	2/4/97	130	ppbv	47	
	LG 04	2/4/97	22	ppbv	18	
Chlorobenzene						
	LG-05	2/4/97	1100	ppbv	48	
	LG 07	2/4/97	280	ppbv	51	
	LG 08	2/4/97	150	ppbv	16	
	LG 10	2/6/97	670	ppbv	1 6	
Chloroethane						
	LG 01	2/4/97	250	ppbv	12	
	LG 03	2/4/97	120	ppbv	3 7	
	LG-04	2/4/97	87	ppbv	4 4	
	LG 08	2/4/97	110	ppbv	16	
1 4 Dichlorobenzene						*p Dichlorobenzene*
	LG 05	2/4/97	66	ppbv	48	
	LG 10	2/6/97	12	ppbv	1 6	

TABLE A2

RESULTS ABOVE DETECTION LIMIT

LANDFILL GAS
February 1997

PARAMETER	SAMPLE POINT	DATE	VALUE	UNITS	DET LIMIT		SYNONYM
Dichlorodifluoromethane							*Freon 12*
	LG 01	2/4/97	760	ppbv	12		
	LG 02	2/4/97	32	ppbv	13		
	LG-03	2/4/97	46	ppbv	3 7		
	LG-04	2/4/97	98	ppbv	4 4		
	LG 06	2/4/97	1 6	ppbv	0 82		
	LG 06 D	2/4/97	1 7	ppbv	0 99	*Field Duplicate*	
	LG 07	2/4/97	230	ppbv	51		
	LG 08	2/4/97	600	ppbv	16		
	LG 09	2/6/97	78	ppbv	15		
	LG 10	2/6/97	2	ppbv	1 6		
1 2 cis Dichloroethylene							*1 2 cis Dichloroethene*
	LG-04	2/4/97	7 1	ppbv	4 4		
1 2 Dichlorotetrafluoroethane							
	LG 01	2/4/97	410	ppbv	12		
	LG 03	2/4/97	140	ppbv	3 7		
	LG 04	2/4/97	180	ppbv	4 4		
	LG 06	2/4/97	0 88	ppbv	0 82		
	LG-06 D	2/4/97	0 82	ppbv	0 99	*Field Duplicate*	
	LG 07	2/4/97	140	ppbv	51		
	LG 08	2/4/97	520	ppbv	16		
	LG 10	2/6/97	1 9	ppbv	1 6		
Ethylbenzene							
	LG 03	2/4/97	7 2	ppbv	3 7		
	LG 04	2/4/97	5	ppbv	4 4		
	LG 05	2/4/97	210	ppbv	48		
	LG-08	2/4/97	52	ppbv	16		
	LG 10	2/6/97	240	ppbv	1 6		
4-Ethyltoluene							
	LG 10	2/6/97	46	ppbv	6 6		
Methyl ethyl ketone							*2 Butanone*
	LG-08	2/4/97	180	ppbv	63		
	LG 10	2/6/97	81	ppbv	6 6		

TABLE A2

RESULTS ABOVE DETECTION LIMIT

LANDFILL GAS
February 1997

PARAMETER	SAMPLE POINT	DATE	VALUE	UNITS	DET LIMIT		SYNONYM
Methylene chloride							*Dichloromethane*
	LG 01	2/4/97	13	ppbv	12		
	LG 03	2/4/97	4 1	ppbv	3 7		
	LG 04	2/4/97	5 8	ppbv	4 4		
	LG-07	2/4/97	61	ppbv	51		
	LG-08	2/4/97	22	ppbv	16		
	LG-09	2/6/97	17	ppbv	15		
	LG 10	2/6/97	1 7	ppbv	1 6		
Toluene							*Methylbenzene*
	LG-01	2/4/97	1200	ppbv	12		
	LG-03	2/4/97	5 8	ppbv	3 7		
	LG 04	2/4/97	13	ppbv	4 4		
	LG 06	2/4/97	2 3	ppbv	0 82		
	LG 06 D	2/4/97	2 5	ppbv	0 99	*Field Duplicate*	
	LG 08	2/4/97	200	ppbv	16		
	LG-09	2/6/97	34	ppbv	15		
	LG 10	2/6/97	210	ppbv	1 6		
Trichlorofluoromethane							*Freon 11*
	LG 01	2/4/97	14	ppbv	12		
	LG 10	2/6/97	20	ppbv	1 6		
1 2 4 Trimethylbenzene							
	LG-05	2/4/97	260	ppbv	48		
	LG 06	2/4/97	2 6	ppbv	0 82		
	LG 06 D	2/4/97	2 8	ppbv	0 99	*Field Duplicate*	
	LG 10	2/6/97	44	ppbv	1 6		
1 3 5-Trimethylbenzene							
	LG 05	2/4/97	68	ppbv	48		
	LG 10	2/6/97	24	ppbv	1 6		
Vinyl chloride							*Chloroethylene*
	LG-01	2/4/97	120	ppbv	12		
	LG-03	2/4/97	61	ppbv	3 7		
	LG-04	2/4/97	76	ppbv	4 4		
	LG-06	2/4/97	0 9	ppbv	0 82		
	LG 06 D	2/4/97	0 86	ppbv	0 99	*Field Duplicate*	
	LG 08	2/4/97	740	ppbv	16		
	LG 09	2/6/97	100	ppbv	15		

TABLE A2

RESULTS ABOVE DETECTION LIMIT

LANDFILL GAS
February 1997

PARAMETER	*SAMPLE POINT*	*DATE*	*VALUE*	*UNITS*	*DET LIMIT*	*SYNONYM*
m+p Xylenes						
	LG 03	2/4/97	4	ppbv	3 7	
	LG 04	2/4/97	6 6	ppbv	4 4	
	LG 05	2/4/97	360	ppbv	48	
	LG-06	2/4/97	2 3	ppbv	0 82	
	LG-06 D	2/4/97	2 4	ppbv	0 99	*Field Duplicate*
	LG 07	2/4/97	100	ppbv	51	
	LG-08	2/4/97	130	ppbv	16	
	LG-09	2/6/97	22	ppbv	15	
	LG 10	2/6/97	640	ppbv	1 6	
o-Xylene						
	LG 05	2/4/97	200	ppbv	48	
	LG 06	2/4/97	1 4	ppbv	0 82	
	LG-06 D	2/4/97	1 5	ppbv	0 99	*Field Duplicate*
	LG-08	2/4/97	49	ppbv	16	
	LG 10	2/6/97	270	ppbv	1 6	

AIR TOXICS LTD

SAMPLE NAME Method Spike

ID# 9702059 11A

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021502**		**Date of Collection NA**
Dil Factor	**1 00**		**Date of Analysis 2/15/97**

Compound	**Det Limit (ppbv)**	**Det Limit (uG/m3)**	**/ Recovery**
Freon 12	0 50	2 5	98
Freon 114	0 50	3 6	94
Chloromethane	0 50	1 0	74
Vinyl Chloride	0 50	1 3	72
Bromomethane	0 50	2 0	80
Chloroethane	0 50	1 3	73
Freon 11	0 50	2 9	99
1 1 Dichloroethene	0 50	2 0	73
Freon 113	0 50	3 9	93
Methylene Chloride	0 50	1 8	67 Q
1 1 Dichloroethane	0 50	2 1	84
cis 1 2 Dichloroethene	0 50	2 0	78
Chloroform	0 50	2 5	97
1 1 1 Trichloroethane	0 50	2 8	109
Carbon Tetrachloride	0 50	3 2	102
Benzene	0 50	1 6	84
1 2 Dichloroethane	0 50	2 1	106
Trichloroethene	0 50	2 7	94
1 2 Dichloropropane	0 50	2 3	80
cis 1 3 Dichloropropene	0 50	2 3	94
Toluene	0 50	1 9	93
trans 1 3 Dichloropropene	0 50	2 3	88
1 1 2 Trichloroethane	0 50	2 8	98
Tetrachloroethene	0 50	3 4	94
Ethylene Dibromide	0 50	3 9	97
Chlorobenzene	0 50	2 3	93
Ethyl Benzene	0 50	2 2	96
m p Xylene	0 50	2 2	94
o Xylene	0 50	2 2	94
Styrene	0 50	2 2	104
1 1 2 2 Tetrachloroethane	0 50	3 5	85
1 3 5 Trimethylbenzene	0 50	2 5	97
1 2 4 Trimethylbenzene	0 50	2 5	95
1 3 Dichlorobenzene	0 50	3 1	92
1 4 Dichlorobenzene	0 50	3 1	85
Chlorotoluene	0 50	2 6	104
1 2 Dichlorobenzene	0 50	3 1	92
1 2 4 Trichlorobenzene	0 50	3 8	65 Q
Hexachlorobutadiene	0 50	5 4	82

AIR TOXICS LTD

SAMPLE NAME Method Spike

ID# 9702059 11A

EPA METHOD TO 14 GC/MS Full Scan

File Name 5021502 **Date of Collection NA**

Dil Factor 1 00 **Date of Analysis 2/15/97**

Compound	Det Limit (ppbv)	Det Limit (uG/m3)	/ Recovery
Acetone	2 0	4 8	87
Carbon Disulfide	2 0	6 3	112
trans 1 2 Dichloroethene	2 0	8 1	84
Vinyl Acetate	2 0	7 2	42 Q
2 Butanone (Methyl Ethyl Ketone)	2 0	6 0	93
Bromodichloromethane	2 0	14	100
4 Methyl 2 pentanone	2 0	8 3	83
2 Hexanone	2 0	8 3	84
Dibromochloromethane	2 0	17	106
Bromoform	2 0	21	93
4 Ethyltoluene	2 0	10	91

Q = Exceeds Quality Control limits

Container Type NA

Surrogates	/ Recovery	Method Limits
Octafluorotoluene	97	70 130
Toluene d8	99	70 130
4 Bromofluorobenzene	97	70 130

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12A

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021504**			**Date of Collection**	**NA**
Dil Factor	**1 00**			**Date of Analysis**	**2/15/97**
Compound		**Det Limit (ppbv)**	**Det Limit (uG/m3)**	**Amount (ppbv)**	**Amount (uG/m3)**
Freon 12		0 50	2 5	Not Detected	Not Detected
Freon 114		0 50	3 6	Not Detected	Not Detected
Chloromethane		0 50	1 0	Not Detected	Not Detected
Vinyl Chloride		0 50	1 3	Not Detected	Not Detected
Bromomethane		0 50	2 0	Not Detected	Not Detected
Chloroethane		0 50	1 3	Not Detected	Not Detected
Freon 11		0 50	2 9	Not Detected	Not Detected
1 1 Dichloroethene		0 50	2 0	Not Detected	Not Detected
Freon 113		0 50	3 9	Not Detected	Not Detected
Methylene Chloride		0 50	1 8	Not Detected	Not Detected
1 1 Dichloroethane		0 50	2 1	Not Detected	Not Detected
cis 1 2 Dichloroethene		0 50	2 0	Not Detected	Not Detected
Chloroform		0 50	2 5	Not Detected	Not Detected
1 1 1 Trichloroethane		0 50	2 8	Not Detected	Not Detected
Carbon Tetrachloride		0 50	3 2	Not Detected	Not Detected
Benzene		0 50	1 6	Not Detected	Not Detected
1 2 Dichloroethane		0 50	2 1	Not Detected	Not Detected
Trichloroethene		0 50	2 7	Not Detected	Not Detected
1 2 Dichloropropane		0 50	2 3	Not Detected	Not Detected
cis 1 3 Dichloropropene		0 50	2 3	Not Detected	Not Detected
Toluene		0 50	1 9	Not Detected	Not Detected
trans 1 3 Dichloropropene		0 50	2 3	Not Detected	Not Detected
1 1 2 Trichloroethane		0 50	2 8	Not Detected	Not Detected
Tetrachloroethene		0 50	3 4	Not Detected	Not Detected
Ethylene Dibromide		0 50	3 9	Not Detected	Not Detected
Chlorobenzene		0 50	2 3	Not Detected	Not Detected
Ethyl Benzene		0 50	2 2	Not Detected	Not Detected
m p Xylene		0 50	2 2	Not Detected	Not Detected
o Xylene		0 50	2 2	Not Detected	Not Detected
Styrene		0 50	2 2	Not Detected	Not Detected
1 1 2 2 Tetrachloroethane		0 50	3 5	Not Detected	Not Detected
1 3 5 Trimethylbenzene		0 50	2 5	Not Detected	Not Detected
1 2 4 Trimethylbenzene		0 50	2 5	Not Detected	Not Detected
1 3 Dichlorobenzene		0 50	3 1	Not Detected	Not Detected
1 4 Dichlorobenzene		0 50	3 1	Not Detected	Not Detected
Chlorotoluene		0 50	2 6	Not Detected	Not Detected
1 2 Dichlorobenzene		0 50	3 1	Not Detected	Not Detected
1 2 4 Trichlorobenzene		0 50	3 8	Not Detected	Not Detected
Hexachlorobutadiene		0 50	5 4	Not Detected	Not Detected

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12A

EPA METHOD TO 14 GC/MS Full Scan

File Name 5021504 **Date of Collection** NA

Dil Factor 1 00 **Date of Analysis** 2/15/97

Compound	Det Limit (ppbv)	Det Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Acetone	2 0	4 8	Not Detected	Not Detected
Carbon Disulfide	2 0	6 3	Not Detected	Not Detected
trans 1 2 Dichloroethene	2 0	8 1	Not Detected	Not Detected
Vinyl Acetate	2 0	7 2	Not Detected	Not Detected
2 Butanone (Methyl Ethyl Ketone)	2 0	6 0	Not Detected	Not Detected
Bromodichloromethane	2 0	14	Not Detected	Not Detected
4 Methyl 2 pentanone	2 0	8 3	Not Detected	Not Detected
2 Hexanone	2 0	8 3	Not Detected	Not Detected
Dibromochloromethane	2 0	17	Not Detected	Not Detected
Bromoform	2 0	21	Not Detected	Not Detected
4 Ethyltoluene	2 0	10	Not Detected	Not Detected

Container Type NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	105	70 130
Toluene d8	100	70 130
4 Bromofluorobenzene	90	70 130

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12B

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021604**	**Date of Collection**	**NA**
Dil Factor	**1 00**	**Date of Analysis**	**2/16/97**

Compound	Det Limit (ppbv)	Det Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0 50	2 5	Not Detected	Not Detected
Freon 114	0 50	3 6	Not Detected	Not Detected
Chloromethane	0 50	1 0	Not Detected	Not Detected
Vinyl Chloride	0 50	1 3	Not Detected	Not Detected
Bromomethane	0 50	2 0	Not Detected	Not Detected
Chloroethane	0 50	1 3	Not Detected	Not Detected
Freon 11	0 50	2 9	Not Detected	Not Detected
1 1 Dichloroethene	0 50	2 0	Not Detected	Not Detected
Freon 113	0 50	3 9	Not Detected	Not Detected
Methylene Chloride	0 50	1 8	Not Detected	Not Detected
1 1 Dichloroethane	0 50	2 1	Not Detected	Not Detected
cis 1 2 Dichloroethene	0 50	2 0	Not Detected	Not Detected
Chloroform	0 50	2 5	Not Detected	Not Detected
1 1 1 Trichloroethane	0 50	2 8	Not Detected	Not Detected
Carbon Tetrachloride	0 50	3 2	Not Detected	Not Detected
Benzene	0 50	1 6	Not Detected	Not Detected
1 2 Dichloroethane	0 50	2 1	Not Detected	Not Detected
Trichloroethene	0 50	2 7	Not Detected	Not Detected
1 2 Dichloropropane	0 50	2 3	Not Detected	Not Detected
cis 1 3 Dichloropropene	0 50	2 3	Not Detected	Not Detected
Toluene	0 50	1 9	Not Detected	Not Detected
trans 1 3 Dichloropropene	0 50	2 3	Not Detected	Not Detected
1 1 2 Trichloroethane	0 50	2 8	Not Detected	Not Detected
Tetrachloroethene	0 50	3 4	Not Detected	Not Detected
Ethylene Dibromide	0 50	3 9	Not Detected	Not Detected
Chlorobenzene	0 50	2 3	Not Detected	Not Detected
Ethyl Benzene	0 50	2 2	Not Detected	Not Detected
m p Xylene	0 50	2 2	Not Detected	Not Detected
o Xylene	0 50	2 2	Not Detected	Not Detected
Styrene	0 50	2 2	Not Detected	Not Detected
1 1 2 2 Tetrachloroethane	0 50	3 5	Not Detected	Not Detected
1 3 5 Trimethylbenzene	0 50	2 5	Not Detected	Not Detected
1 2 4 Trimethylbenzene	0 50	2 5	Not Detected	Not Detected
1 3 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
1 4 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
Chlorotoluene	0 50	2 6	Not Detected	Not Detected
1 2 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
1 2 4 Trichlorobenzene	0 50	3 8	Not Detected	Not Detected
Hexachlorobutadiene	0 50	5 4	Not Detected	Not Detected

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12B

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021604**		**Date of Collection**	**NA**
Dil Factor	**1 00**		**Date of Analysis**	**2/16/97**
Compound	**Det Limit (ppbv)**	**Det Limit (uG/m3)**	**Amount (ppbv)**	**Amount (uG/m3)**
Acetone	2 0	4 8	Not Detected	Not Detected
Carbon Disulfide	2 0	6 3	Not Detected	Not Detected
trans 1 2 Dichloroethene	2 0	8 1	Not Detected	Not Detected
Vinyl Acetate	2 0	7 2	Not Detected	Not Detected
2 Butanone (Methyl Ethyl Ketone)	2 0	6 0	Not Detected	Not Detected
Bromodichloromethane	2 0	14	Not Detected	Not Detected
4 Methyl 2 pentanone	2 0	8 3	Not Detected	Not Detected
2 Hexanone	2 0	8 3	Not Detected	Not Detected
Dibromochloromethane	2 0	17	Not Detected	Not Detected
Bromoform	2 0	21	Not Detected	Not Detected
4 Ethyltoluene	2 0	10	Not Detected	Not Detected

Container Type NA

Surrogates	**% Recovery**	**Method Limits**
Octafluorotoluene	**106**	**70 130**
Toluene d8	**99**	**70 130**
4 Bromofluorobenzene	**88**	**70 130**

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12C

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021804**	**Date of Collection**	**NA**
Dil Factor	**1 00**	**Date of Analysis**	**2/18/97**

Compound	Det Limit (ppbv)	Det Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0 50	2 5	Not Detected	Not Detected
Freon 114	0 50	3 6	Not Detected	Not Detected
Chloromethane	0 50	1 0	Not Detected	Not Detected
Vinyl Chloride	0 50	1 3	Not Detected	Not Detected
Bromomethane	0 50	2 0	Not Detected	Not Detected
Chloroethane	0 50	1 3	Not Detected	Not Detected
Freon 11	0 50	2 9	Not Detected	Not Detected
1 1 Dichloroethene	0 50	2 0	Not Detected	Not Detected
Freon 113	0 50	3 9	Not Detected	Not Detected
Methylene Chloride	0 50	1 8	Not Detected	Not Detected
1 1 Dichloroethane	0 50	2 1	Not Detected	Not Detected
cis 1 2 Dichloroethene	0 50	2 0	Not Detected	Not Detected
Chloroform	0 50	2 5	Not Detected	Not Detected
1 1 1 Trichloroethane	0 50	2 8	Not Detected	Not Detected
Carbon Tetrachloride	0 50	3 2	Not Detected	Not Detected
Benzene	0 50	1 6	Not Detected	Not Detected
1 2 Dichloroethane	0 50	2 1	Not Detected	Not Detected
Trichloroethene	0 50	2 7	Not Detected	Not Detected
1 2 Dichloropropane	0 50	2 3	Not Detected	Not Detected
cis 1 3 Dichloropropene	0 50	2 3	Not Detected	Not Detected
Toluene	0 50	1 9	Not Detected	Not Detected
trans 1 3 Dichloropropene	0 50	2 3	Not Detected	Not Detected
1 1 2 Trichloroethane	0 50	2 8	Not Detected	Not Detected
Tetrachloroethene	0 50	3 4	Not Detected	Not Detected
Ethylene Dibromide	0 50	3 9	Not Detected	Not Detected
Chlorobenzene	0 50	2 3	Not Detected	Not Detected
Ethyl Benzene	0 50	2 2	Not Detected	Not Detected
m p Xylene	0 50	2 2	Not Detected	Not Detected
o Xylene	0 50	2 2	Not Detected	Not Detected
Styrene	0 50	2 2	Not Detected	Not Detected
1 1 2 2 Tetrachloroethane	0 50	3 5	Not Detected	Not Detected
1 3 5 Trimethylbenzene	0 50	2 5	Not Detected	Not Detected
1 2 4 Trimethylbenzene	0 50	2 5	Not Detected	Not Detected
1 3 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
1 4 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
Chlorotoluene	0 50	2 6	Not Detected	Not Detected
1 2 Dichlorobenzene	0 50	3 1	Not Detected	Not Detected
1 2 4 Trichlorobenzene	0 50	3 8	Not Detected	Not Detected
Hexachlorobutadiene	0 50	5 4	Not Detected	Not Detected

AIR TOXICS LTD

SAMPLE NAME Lab Blank

ID# 9702059 12C

EPA METHOD TO 14 GC/MS Full Scan

File Name	**5021804**			**Date of Collection**	**NA**
Dil Factor	**1 00**			**Date of Analysis**	**2/18/97**
Compound		**Det Limit (ppbv)**	**Det Limit (uG/m3)**	**Amount (ppbv)**	**Amount (uG/m3)**
Acetone		2 0	4 8	Not Detected	Not Detected
Carbon Disulfide		2 0	6 3	Not Detected	Not Detected
trans 1 2 Dichloroethene		2 0	8 1	Not Detected	Not Detected
Vinyl Acetate		2 0	7 2	Not Detected	Not Detected
2 Butanone (Methyl Ethyl Ketone)		2 0	6 0	Not Detected	Not Detected
Bromodichloromethane		2 0	14	Not Detected	Not Detected
4 Methyl 2 pentanone		2 0	8 3	Not Detected	Not Detected
2 Hexanone		2 0	8 3	Not Detected	Not Detected
Dibromochloromethane		2 0	17	Not Detected	Not Detected
Bromoform		2 0	21	Not Detected	Not Detected
4 Ethyltoluene		2 0	10	Not Detected	Not Detected

Container Type NA

Surrogates	**% Recovery**	**Method Limits**
Octafluorotoluene	**102**	**70 130**
Toluene d8	**100**	**70 130**
4 Bromofluorobenzene	**88**	**70 130**

AIR TOXICS LTD

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD SUITE B
FOLSOM CA 95630 4719
(916) 985 1000 FAX (916) 985 1020

CHAIN-OF-CUSTODY RECORD

Nº 009913

Page 1 of 1

Contact Person [illegible]
Company [illegible]
Address [illegible] Suite [illegible]
Phone [illegible] FAX [illegible]
Collected By Signature [illegible]

Project Info
PO # [illegible]
Project # [illegible]
Project Name [illegible]

Turn Around Time
☒ Normal
☐ Rush _____ Specify

Lab ID	Field Sample ID	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	LG-01	2/4/97 [illegible]	TO-14	12	3.5	1.11
02A	LG 02	2/4/97 1005		22	23.5	20.11
03A	LG 03	2/4/97 1010		11	4.5	5.11
04A	LG-04	2/4/97 1000		11	5	4 11
05A	LG-05	2/4/97 1115		20	16	27.11
06A/DUP	LG 06	2/4/97 1140		21	7	5.51
07A	LG-07	2/4/97 1210		20	23.5	26 11
08A	LG 08	2/4/97 1317		25	6	4.5 11
09A	LG-09	2/4/97 0935		25	5	3.5 11
10A	LG-10	2/4/97 0955	TO-14	27	2.5	3.5 11

Relinquished By (Signature) Date/Time [illegible] Print Name [illegible]
Relinquished By (Signature) Date/Time [illegible] Received By (Signature) Date/Time [illegible]
Relinquished By (Signature) Date/Time [illegible] Received By (Signature) Date/Time [illegible]

Notes
- [illegible] measured w/ flow meter online
- [illegible]

Lab Use Only	Shipper Name	Air Bill #	Opened By	Date/Time	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FED X	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Yes No (None) N/A	[illegible]

ATTACHMENT 2 – TOTAL ORGANIC CARBON RESULTS

Pace Analytical

Pace Analytical Services Inc
900 Gemini Avenue
Houston TX 77058
Tel 713-488 1810
Fax 713-488-4661

February 10 1997
Report No 00058679
Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 01	DATE SAMPLED	03 FEB 97 1030
SAMPLE NO	H444740	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 85	%

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services Inc
900 Gemini Avenue
Houston TX 77058
Tel 713 488 1810
Fax 713-488 4661

February 10 1997
Report No 00058679
Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 02	DATE SAMPLED	03 FEB 97 1122
SAMPLE NO	H444741	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 39	%

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Pace Analytical Services Inc
900 Gemini Avenue
Houston TX 77058
Tel 713-488 1810
Fax 713 488-4661

February 10 1997
Report No 00058679
Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 03	DATE SAMPLED	03 FEB 97 1147
SAMPLE NO	H444742	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 31	%

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Pace Analytical Services Inc
900 Gemini Avenue
Houston TX 77058
Tel 713-488 1810
Fax 713-488 4661

February 10 1997
Report No 00058679
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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P C NO	943 2848 205
SAMPLE ID	SG 04	DATE SAMPLED	03 FEB 97 1223
SAMPLE NO	H444743	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 45	%

REPORT OF LABORATORY ANALYSIS

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Fax 713-488-4661

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 05	DATE SAMPLED	03 FEB 97 1300
SAMPLE NO	H444744	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 42	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 06	DATE SAMPLED	03 FEB 97 1338
SAMPLE NO	H444745	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 69	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 07	DATE AMPLED	03 FEB 97 1420
SAMPLE NO	H444746	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 23	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 08	DATE AMPLED	03 FEB 97 1443
SAMPLE NO	H444747	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 26	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 09	DATE AMPLED	03 FEB 97 1507
SAMPLE NO	H444748	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	1 0	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG 10	DATE AMPLED	03 FEB 97 1536
SAMPLE NO	H444749	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 59	%

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LABORATORY ANALYSIS REPORT

CLIENT NAME	ALLIED WASTE INDUSTRIES	LIMS CLIENT	1010 0001
ADDRESS	15880 N GREENWAY HAYDEN LOOP ST100	PACE PROJECT	H43668
	SCOTTSDALE AZ 85260	PACE CLIENT	621170
ATTENTION	DOUG BORRO	P O NO	943 2848 205
SAMPLE ID	SG D 02	DATE SAMPLED	03 FEB 97 1122
SAMPLE NO	H444750	DATE RECEIVED	06 FEB 97
SAMPLE MATRIX	SOIL	PROJECT MANAGER	Debbie Proctor

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	I107S	Carbon Total Organic (C)	0 21	%

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SUPPLEMENTAL INFORMATION

LN	TEST CODE	LCSR BLNK BATCH	DUP/MS MS/MSD BATCH	SAMPLE PREPARATION LR METHOD	DATE/TIME	ANALYST	SAMPLE ANALYSIS LR METHOD	DATE/TIME	ANALYST	INSTRUMENT
SAMPLE ID SG 01								SAMPLE NO H444740		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 02								SAMPLE NO H444741		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 03								SAMPLE NO H444742		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 04								SAMPLE NO H444743		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 05								SAMPLE NO H444744		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 06								SAMPLE NO H444745		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 07								SAMPLE NO H444746		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 08								SAMPLE NO H444747		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 09								SAMPLE NO H444748		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	
SAMPLE ID SG 10								SAMPLE NO H444749		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	

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SUPPLEMENTAL INFORMATION

LN	TEST CODE	LCSR BLNK BATCH	DUP/MS MS/MSD BATCH	SAMPLE PREPARATION LR METHOD	DATE/TIME	ANALYST	SAMPLE ANALYSIS LR METHOD	DATE/TIME	ANALYST	INSTRUMENT
SAMPLE ID SG D 02								SAMPLE NO H444750		
1	I107S	71238	71238	NA			13 90 3	07 FEB 97 0900	AMC	

LR Method Literature Reference

13 Methods of Soils Analysis Am Soc of Agronomy 2nd ed 1982

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Section D Page 1

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO 71238			SAMPLE NO H381891
I107S	Carbon Total Organic (C)	93 5	

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DUPLICATE AND MATRIX SPIKE DATA

TEST CODE	DETERMINATION	ORIGINAL RESULT	DUPLICATE RESULT	UNITS	RANGE / RPD	MS RESULT	MS % RCVRY
BATCH NO 71238						SAMPLE NO H444740	
I107S	Carbon Total Organic (C)	0 85	0 90	%	5 7	1 5	97 4
BATCH NO 71238						SAMPLE NO H444750	
I107S	Carbon Total Organic (C)	0 21	0 19	%	10 0	0 86	97 4

REPORT OF LABORATORY ANALYSIS

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362624

CHAIN OF CUSTODY RECORD
Analytical Request

Client: Golder Associates
Address: 1630 Heritage Landing Ste 103
St Charles Mo 63303
Phone: (314) 436 1574

Report To: Ward Hertel
Bill To:
P O # / Billing Reference: 943 2548 0205
Project Name / No: Ville Orla RI/FS

Pace Client No:
Pace Project Manager:
Pace Project No:
Requested Due Date: ASAP

Sampled By (PRINT): John D Regan
Sampler Signature: John D Regan
Date Sampled: 2/2/97

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA	Ice	ANALYSES REQUEST: TOC	REMARKS
1	SG-01	1030	soil	740	1					✓	X	
2	SG 02	1122		741								
3	SG 03	1147		742								
4	SG 04	1223		743								
5	SG-05	1300		744								
6	SG 06	1338		745								
7	SG-07	1420		746								
8	SG-08	1443	soil	747	1					✓	X	

COOLER NOS.	BAILERS	SHIPMENT METHOD: OUT/DATE	RETURNED/DATE
			Fed Ex / 2/4/97

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1-8	John D Regan / Golder	[illegible signature]	2/5/97	1530

Additional Comments

Chain of Custody form 1 of 2

Fed Ex tracking number 5774190365

SEE REVERSE SIDE FOR INSTRUCTIONS

36262

CHAIN OF CUSTODY RECC
Analytical Request

Client Caller

Address 1672 Hodge Landing Site Rd
Carlo MC 63320

Phone (314) 726 1554

Report To Robert Hart

Bill To

P O # / Billing Reference 113 2848 03605

Project Name / No Malline OU2 RI/FS

Pace Client No

Pace Project Manager

Pace Project No

Requested Due Date

Sampled By (PRINT) Jeff D Regan 2/5/17

Sampler Signature Date Sampled

Jeff D Regan

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	ICE		TOC	REMARKS
1	SG-09	1587	soil	710	1					X		X	
2	SG-10	1536	↕	719	1					X		X	
3	SC-D-02	1122	soil	750	1					X		X	
4													
5													
6													
7													
8													

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	RETURNED/DATE
			Fed Ex 2/4/17

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1-3	Jeff D Regan / Caller	[illegible]	[illegible]	[illegible]

Additional Comments

Chain of Custody Form 2 of 2

Fed Ex tracking number 5774190 3605

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