QUARTERLY AIR QUALITY MONITORING REPORT FOR THE HEWITT PIT LANDFILL

Second Quarter
April - June 2003

Submitted to

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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Diamond Bar, California 91765

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PROJECT NUMBER 1003-6
July 2003

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) 1150.1 QUARTERLY MONITORING REPORT FOR THE HEWITT PIT LANDFILL SECOND QUARTER 2003

Prepared for:
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Project 1003-1

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AIR QUALITY MONITORING REPORT

for the

HEWITT PIT LANDFILL

Project Number 1003-1
April - June 2003

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1.0 INTRODUCTION

This Quarterly Air Quality Monitoring Report has been prepared for the Hewitt Pit Landfill in accordance with conditions set forth in the approved Rule 1150.1 Compliance Plan issued by the South Coast Air Quality Management District (SCAQMD) on December 17, 1999. No exceedances were measured in the probe monitoring performed during the quarter. The highest methane level recorded for the period was 0.6% at Probe 30A on May 20, 2003 found near the southeast corner of **Figure 1**.

Methane emissions from landfill Grid 23 (**Figure 2**) exceeded 1000 parts per million volume (ppmv) during the Instantaneous Surface Monitoring (ISM) performed on June 12, 2003. After repairs to that area were made, the Grid was remeasured and the reading was 10 ppmv. This level is well under the 500 ppmv allowable limit. All grids were below 50 ppmv during the Integrated Surface Sampling (ISS) conducted on June 12, 2003 and June 16, 2003.

The Rule 1150.1 Plan monitoring requirements, schedule and results are summarized on the following table.

SUMMARY OF REQUIRED MONITORING, SCHEDULE AND RESULTS

Required Monitoring	Schedule	Results
TOCs in subsurface refuse boundary sampling probes (probes) to be less than 5%.	Monthly (minimum)	There were no exceedances measured during this quarter. Probe monitoring data is attached to this report as **Attachment 1.** Monitoring was performed weekly for most of this quarter.
Integrated surface sampling to be less than 50 ppmv as TOCs.	Annually 2nd Quarterly Report	Results shown as **Attachment 2.** All grids passed. Laboratory results shown as **Attachment 3.**
Instantaneous surface monitoring to be less than 500 ppmv as TOCs.	Annually 2nd Quarterly Report	Results shown as **Attachment 4.**
TACs in probes.	Annually 2nd Quarterly Report	Results shown as **Attachment 5.**
TOCs and TACs in the main gas collection header.	Annually 3rd Quarterly Report	Not required for this event.
Flare source test and 98% destruction of NMOCs.	Annually 3rd Quarterly Report	Not required for this event.

This report includes compilation and documentation of the results of the monitoring events for the second quarter of 2003, preparation of surface emissions monitoring maps, field data review and analysis, and technical and quality assurance review of the data and maps.

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2.0 MONITORING PROCEDURES

2.1 Gas Migration Monitoring

Gas migration monitoring consists of monitoring probes located at the landfill perimeter as shown on **Figure 1**. At a minimum, probes were monitored for percent methane and percent oxygen and pressure using a LandTec GEM-500.

Equipment Description

The GEM-500 was specifically designed for use on landfills to monitor landfill gas migration control systems, gas collection systems, flares, and migration probes.

GEM-500 specifications are as follows:

	Sensor Range	Resolution
Methane	0 to 100%	0.1
Carbon dioxide	0 to 75%	0.1
Oxygen	0 to 100%	0.1

Typical accuracy of GEM-500 at 5% methane concentration is +0.3% methane by volume and +1.9% methane by volume at 75% methane concentration.

Probe Monitoring Procedures

The GEM-500 was calibrated prior to monitoring. The pressure transducers of the GEM-500 were reset to zero prior to attaching the unit to a monitoring probe.

Prior to testing of the perimeter gas migration monitoring probes, the probes were evacuated of at least two probe casing volumes of gas. The GEM-500 was attached to the probe to measure percent methane and percent oxygen.

The results, including the date, probe number, gas component concentrations and Datafield location conversion table and for each probe are summarized in **Attachment 1**. Toxic Air Contaminants (TACs) were also analyzed for probe 39. The results are included as **Attachment 5**.

2.2 Integrated Landfill Surface Sampling

Integrated surface sampling (ISS) was conducted in each of the 52 monitoring grids of the landfill (**Figure 2**). Each grid is approximately 50,000 square feet in area. ISS was conducted to identify locations where averaged surface emissions exceed 50 ppmv.

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Equipment Description

Sampling was performed using a 10-liter Tedlar bag with shut off valve enclosed in a light-sealed container.

The Tedlar bag was connected to a portable, self-contained, battery operated integrated surface sampler. The sampler consists of a diaphragm pump with a viton diaphragm. The sampler is equipped with a rotameter to measure airflow and is set at 333 cubic centimeters per second. All tubing in the sampler consists of 316 ss or teflon.

Integrated Surface Sampling Procedure

ISS was conducted when the landfill was dry and average wind speed was 5 mph or less, and the instantaneous wind speed was 10 mph or less. Average wind speed was determined using a portable weather station with recorder. The results are shown in **Attachment 2.**

During the sampling, the probe tip was maintained between 1 to 3 inches above the landfill surface. The sample was collected over a 2600 linear foot walking pattern within the grid. The sampling was performed over a continuous 25 minute period. The TOC was measured for each sample using an OVA. Because no samples had more than 50 ppmv, only two samples were submitted to a laboratory for analysis. The analysis included SCAQMD 1150.1 Table 1 toxic air contaminants, percent methane, and total non-methane organic compounds. Chain of custody records were kept for each sample. Total methane and non-methane organic compounds in both samples were less than 3 ppmv. Lab results for Grids 22 and 23 are included as **Attachment 3.**

2.3 Instantaneous Landfill Surface Monitoring

Instantaneous surface monitoring (ISM) was conducted over the entire disposal area that was accessible. ISM was conducted to identify locations where excessive landfill gas emissions are occurring.

Landfill gas emissions were measured approximately 1 to 3 inches above the landfill surface and tested for total organic compounds (TOC) as methane. Emissions were monitored while a pattern was walked over the entire disposal area.

ISM was conducted when the landfill was dry, when the average wind speed was less than 5 miles per hour, and the instantaneous wind speed was less than 10 miles per hour. Average wind speed was determined using a portable weather station with recorder and is included with **Attachment 4.**

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Equipment Detailed Description

A portable flame ionization detector (FID - Foxboro Century 108 Organic Vapor Analyzer) was used to instantaneously measure the concentration of total organic compounds (TOC) no more than 3 inches above the landfill surface.

The equipment specifications are as follows:

Range:		0 to 10,000 ppmv
Minimum detectable limit	:	1 ppmv
Sensitivity	:	0.1 ppmv methane
Response time	:	Less than 2 seconds
Flame out indicator	:	Audible alarm plus visual meter
Accuracy	:	± 5% of individual scale
Operating temperature	:	10 to 40 deg. Centigrade

Operating Procedures

The Foxboro Century Organic Vapor Analyzer 108 (OVA) was activated and calibrated using 50 and 500 parts per million volume (ppmv) methane standards and also field checked at the site before monitoring. The instrument number was recorded on the data forms, and calibration was documented in the Instrument Calibration Log (**Attachment 2**).

The prescribed pattern was walked while maintaining the probe inlet approximately 1 to 3 inches above the landfill surface at a speed of 1 to 2 feet per second. The concentration of TOC as methane in ppmv was observed or recorded every 100 to 150 feet, at unusual readings, cap failure or fissures, and whenever a reading exceeded 500 ppmv. This is shown on **Figure 2**. Readings exceeding 500 ppmv were also recorded on a field form. Wind speed and direction were monitored continuously using an anemometer (**Attachment 2**). In the event of an instrument reading of 500 ppmv or greater, or where the signs of cap failure existed, the area was flagged and the landfill operations manager notified. The cap was then repaired and the measurement was repeated. The final reading was recorded at the completion of the cap repair.

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3.0 RESULTS

3.1 Gas Migration Monitoring Results

The perimeter gas monitoring probe locations were monitored at least monthly for percent methane, percent oxygen, and pressure. At no time was methane recorded over 5 percent by volume in any probe during the second quarter. The highest detected methane reading during the second quarter was at monitoring probe number 39 (Datafield Probe ID#75B, see **Attachment 1**) during May 20, 2003 when the indicated methane concentration was 0.6 percent.

Complete results of the gas probe monitoring are included in **Attachment 1.** The TAC analysis at probe 39 is included as **Attachment 5.**

3.2 Integrated Surface Sampling Results

Integrated surface sampling was performed over the entire surface of the landfill on June 12 and June 16, 2003. The results are summarized as follows:

DATE	GRIDS	TOC RANGE PPMV
June 12, 2003	1-34	5
June 12, 2003	52	5
June 16, 2003	35-51	5

Figure 2 shows the grid pattern used for the testing. Purged Tedlar bags were used for the ISS. Monitoring results, OVA calibration logs, and wind speed records are included in **Attachment 2.**

Integrated surface samples were collected in Tedlar bags from grid number 22 and grid number 23 on June 16, 2003. The samples were sent to AtmAA, Inc. Laboratory for analysis of methane, total gaseous non-methane organics (TGNMO), and the SCAQMD Table 1 list of toxic air contaminants. The laboratory analytical procedures meet SCAQMD requirements and analysis was performed within the maximum holding time allowed.

The OVA calibration forms, quality assurance summary, laboratory results and the chain of custody record are included in **Attachment 3.**

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3.3 Instantaneous Landfill Surface Monitoring Results

Instantaneous surface monitoring (ISM) was conducted on June 12, 2003. Instantaneous surface monitoring grids are shown on **Figure 2**.

There was one location with measured TOC concentration readings above 1000 ppmv during the June 12, 2003 monitoring. That area was repaired and retested the same day. There were no TOC concentration readings that exceeded the established regulatory standard of 500 ppmv after the retest during the June 12, 2003 monitoring event. ISM data for this event is shown in **Attachment 4**.

Instantaneous wind speed was monitored and did not exceed 10 miles per hour. The monitored wind speeds throughout the monitoring event ranged from 0 to 5 miles per hour and averaged less than 5 miles per hour.

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4.0 LIMITATIONS

This report may be used only by the client and SCAQMD, and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on site and off site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify GC Environmental, Inc. of such intended use. Non-compliance with any of these requirements by the client or anyone else will release GC Environmental, Inc. from any liability resulting from the use of this report by any unauthorized party.

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FIGURES

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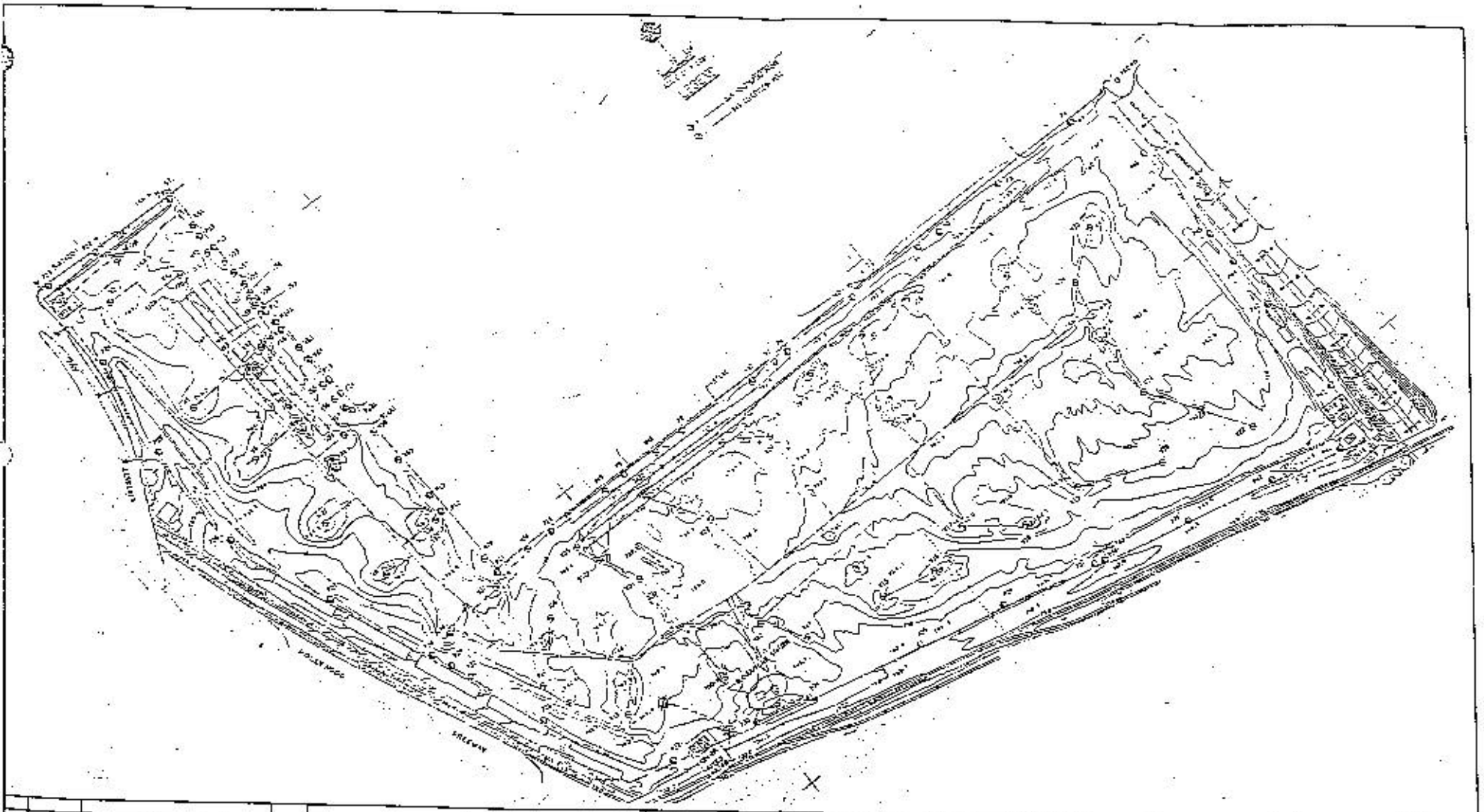


REV.	DATE	DESCRIPTION	BY

ENGINEER: GC ENVIRONMENTAL, INC.
1230 NORTH JEFFERSON ST. SUITE J
ANAHEIM CA. 92807, (714) 632-5905

PROJECT LOCATION: HEWITT PIT LANDFILL
N. HOLLYWOOD, CA

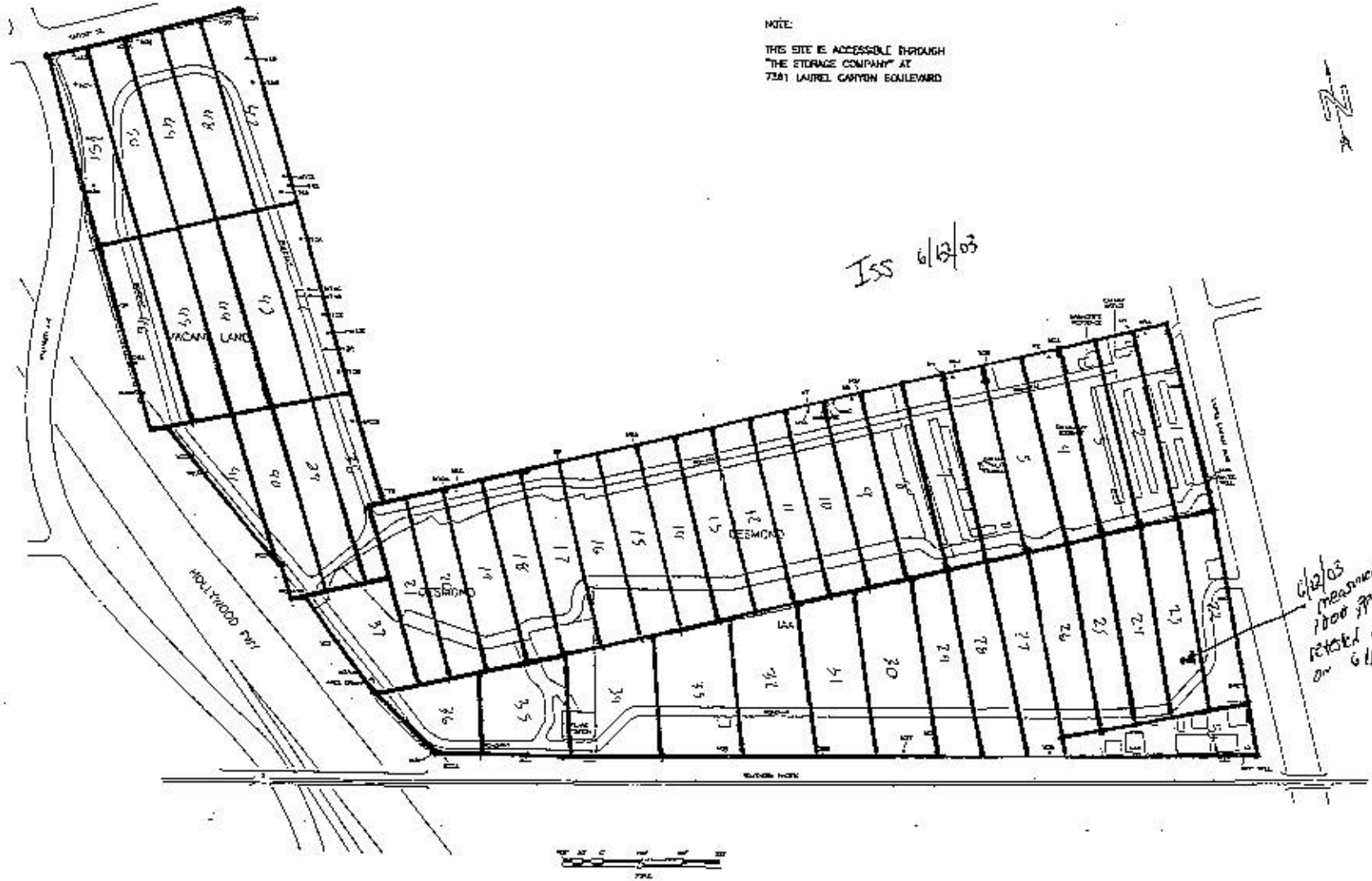
DESCRIPTION: GAS MONITORING PROBE LOCATIONS

PROJECT NO. 1001-1 | REF. DWGS. | FILE NAME

SHEET FIG-1

NOTE:

THIS SITE IS ACCESSIBLE THROUGH "THE STORAGE COMPANY" AT 7361 LAUREL CANYON BOULEVARD



DATE	DESCRIPTION	BY

CLIENT:
CALMAT - VULCAN MATERIALS DIVISION
1501 E. UNIVERSITY DRIVE
PHOENIX, AZ 85034

PROJECT LOCATION:
HEWITT PIT LANDFILL
7361 LAUREL CANYON BLVD.
NORTH HOLLYWOOD, CA

GREENWOOD ENGINEERING, INC.
1230 N. JEFFERSON
SUITE A
ANAHEIM, CA 92807

DESCRIPTION:
ISS AND ISM MONITORING GRID PATTERN

REF. DWGS.: NONE
PROJECT NO.: 1003-6
FILE NAME:
SHEET: FIG-2

Attachment 1

GAS MONITORING

PROBE DATA

April 2003 to June 2003

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HEWITT PIT LANDFILL PROBE ID#

CROSS REFERENCE LIST

Datafield Software Probe ID#	Hewitt Pit Monitoring Probe ID#	Datafield Software Probe ID#	Hewitt Pit Monitoring Probe ID#
01M	1	42M	6C'
02M	1A	43M	7B'
03M	2	44M	7C'
04M	2A	45M	18B
05M	3B	46M	8B
06M	4	47M	8C'
07M	4A	48M	19
08M	5	49M	20
09M	5A	50M	20A
10M	6B	51M	22
11M	6C	52M	22A
12M	6D	53M	23
13M	7	54M	24
14M	7A	55M	24A
15M	8A	56M	25
16M	9	57M	25A
17M	10	58M	26
18M	10A	59M	26A
19M	11B	60M	26B
20M	12B	61M	27
21M	13B	62M	27A
22M	13D	63M	28
23M	13C	64M	30A
24M	1B'	65M	31
25M	1C'	66M	31A
26M	13X	67M	32
27M	14B	68M	32A
28M	14C	69M	33
29M	2B'	70M	34
30M	2C'	71M	35
31M	15A	72M	36B
32M	3B'	73M	37
33M	3C'	74M	38
34M	4B'	75M	39
35M	4C'	76M	40
36M	16A	77M	41
37M	5B'	78M	42
38M	5C'	79M	43
39M	16X	80M	45
40M	17A	81M	46
41M	6A'		

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Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Field Technician and Weather Conditions						
Technician	Date	Ambient Temp	Barometric Pressure (in - Hg)	General Weather	Wind Speed	Wind Direction
	04/08/2003					
Jose	04/16/2003	66	29.9	Clear		
Jose A	04/22/2003	64	29.9	Clear		
Jose	04/29/2003	70	29.9	Clear		

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
10M	04/08/2003	08:54	0.0	0.0	20.4	79.6	0.0	
10M	04/16/2003	09:14	0.0	0.0	19.9	80.1	0.0	
10M	04/22/2003	09:21	0.0	0.2	20.1	79.7	0.0	
10M	04/29/2003	09:07	0.1	0.0	20.3	79.6	0.0	
11M	04/08/2003	08:54	0.0	0.0	20.5	79.5	0.0	
11M	04/16/2003	09:15	0.0	0.0	20.3	79.7	0.0	
11M	04/22/2003	09:23	0.0	0.0	20.6	79.4	0.0	
11M	04/29/2003	09:08	0.0	0.0	20.2	79.8	0.0	
12M	04/08/2003	08:55	0.0	0.0	21.0	79.0	0.0	
12M	04/16/2003	09:16	0.0	0.0	20.3	79.7	0.0	
12M	04/22/2003	09:23	0.0	0.0	20.7	79.3	0.0	
12M	04/29/2003	09:08	0.0	0.0	20.5	79.5	0.0	
13M	04/08/2003	08:57	0.0	0.1	20.5	79.4	0.0	
13M	04/16/2003	09:17	0.0	0.3	19.5	80.2	0.0	
13M	04/22/2003	09:25	0.0	0.8	19.2	80.0	0.0	
13M	04/29/2003	09:09	0.0	0.0	20.6	79.4	0.0	
14M	04/08/2003	08:57	0.0	0.0	21.1	78.9	0.0	
14M	04/16/2003	09:18	0.0	0.0	20.3	79.7	0.0	
14M	04/22/2003	09:25	0.0	0.0	20.8	79.2	0.0	
14M	04/29/2003	09:10	0.0	0.0	20.7	79.3	0.0	
15M	04/08/2003	09:00	0.0	1.2	19.1	79.7	0.0	
15M	04/16/2003	09:21	0.0	1.2	18.7	80.1	0.0	
15M	04/22/2003	09:28	0.0	1.2	18.9	79.9	0.0	
15M	04/29/2003	09:13	0.0	0.4	19.5	80.1	0.0	
16M	04/08/2003	09:02	0.0	0.0	21.0	79.0	0.0	
16M	04/16/2003	09:23	0.0	0.0	20.3	79.7	0.0	
16M	04/22/2003	09:32	0.0	0.0	20.8	79.2	0.0	
16M	04/29/2003	09:15	0.0	0.0	20.6	79.4	0.0	
17M	04/08/2003	09:10	0.0	0.0	21.0	79.0	0.0	
17M	04/16/2003	09:25	0.0	0.0	20.3	79.7	0.0	
17M	04/22/2003	09:34	0.0	0.0	20.9	79.1	0.0	
17M	04/29/2003	09:17	0.0	0.0	20.7	79.3	0.0	
18M	04/08/2003	09:11	0.0	0.0	20.9	79.1	0.0	
18M	04/16/2003	09:26	0.0	0.0	20.2	79.8	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
18M	04/22/2003	09:35	0.0	0.0	20.8	79.2	0.0	
18M	04/29/2003	09:18	0.0	0.0	20.5	79.5	0.0	
19M	04/08/2003	09:12	0.0	0.0	21.1	78.9	0.0	
19M	04/16/2003	09:27	0.0	0.0	20.4	79.6	0.0	
19M	04/22/2003	09:37	0.0	0.0	20.9	79.1	0.0	
19M	04/29/2003	09:20	0.0	0.0	20.7	79.3	0.0	
1M	04/08/2003	08:41	0.0	1.9	18.9	79.2	0.0	
1M	04/16/2003	08:58	0.0	1.8	18.4	79.8	0.0	
1M	04/22/2003	09:03	0.0	1.7	18.5	79.8	0.0	
1M	04/29/2003	08:54	0.0	1.4	18.9	79.7	0.0	
20M	04/08/2003	09:19	0.0	0.0	20.7	79.3	0.0	
20M	04/16/2003	09:30	0.1	0.0	20.4	79.5	0.0	
20M	04/22/2003	09:39	0.0	0.0	21.0	79.0	0.0	
20M	04/29/2003	09:22	0.0	0.0	20.8	79.2	0.0	
21M	04/08/2003	09:21	0.0	0.0	21.0	79.0	0.0	
21M	04/16/2003	09:32	0.0	0.0	20.4	79.6	0.0	
21M	04/22/2003	09:41	0.0	0.0	21.0	79.0	0.0	
21M	04/29/2003	09:24	0.0	0.0	20.8	79.2	-0.2	
22M	04/08/2003	09:24	0.0	0.0	21.0	79.0	0.0	
22M	04/16/2003	09:34	0.0	0.0	20.4	79.6	0.0	
22M	04/22/2003	09:42	0.0	0.0	21.1	78.9	0.0	
22M	04/29/2003	09:25	0.0	0.0	20.8	79.2	0.0	
23M	04/08/2003	09:25	0.0	0.0	21.0	79.0	0.0	
23M	04/16/2003	09:36	0.0	0.4	19.5	80.1	0.0	
23M	04/22/2003	09:44	0.0	0.0	21.0	79.0	0.0	
23M	04/29/2003	09:26	0.1	0.0	20.7	79.2	0.0	
24M	04/08/2003	09:26	0.0	0.0	21.0	79.0	0.0	
24M	04/16/2003	09:37	0.0	0.0	20.1	79.9	0.0	
24M	04/22/2003	09:45	0.0	0.0	21.0	79.0	0.0	
24M	04/29/2003	09:27	0.0	0.0	20.6	79.4	0.0	
25M	04/08/2003	09:27	0.0	0.0	21.0	79.0	0.0	
25M	04/16/2003	09:38	0.0	1.5	17.4	81.1	0.0	
25M	04/22/2003	09:46	0.0	0.0	20.9	79.1	0.0	
25M	04/29/2003	09:28	0.0	0.0	20.6	79.4	0.0	
26M	04/08/2003	09:28	0.0	0.0	20.6	79.4	0.0	
26M	04/16/2003	09:39	0.0	0.2	19.8	80.0	0.0	
26M	04/22/2003	09:47	0.0	0.0	20.8	79.2	0.0	
26M	04/29/2003	09:30	0.0	0.0	20.6	79.4	0.0	
27M	04/08/2003	09:29	0.0	0.0	21.0	79.0	0.0	
27M	04/16/2003	09:40	0.0	0.0	20.3	79.7	0.0	
27M	04/22/2003	09:48	0.0	0.0	20.9	79.1	0.0	
27M	04/29/2003	09:34	0.0	0.0	20.8	79.2	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
28M	04/08/2003	09:30	0.0	0.2	20.6	79.2	0.0	
28M	04/16/2003	09:40	0.0	0.5	19.2	80.3	0.0	
28M	04/22/2003	09:49	0.0	0.0	20.9	79.1	0.0	
28M	04/29/2003	09:35	0.0	0.1	20.5	79.4	0.0	
29M	04/08/2003	09:31	0.0	0.0	21.0	79.0	0.0	
29M	04/16/2003	09:41	0.1	0.0	20.1	79.8	0.0	
29M	04/22/2003	09:52	0.0	0.1	20.6	79.3	0.0	
29M	04/29/2003	09:36	0.0	0.0	20.8	79.2	0.0	
2M	04/08/2003	08:42	0.0	0.0	21.1	78.9	0.0	
2M	04/16/2003	08:59	0.0	2.0	18.0	80.0	0.0	
2M	04/22/2003	09:04	0.0	0.0	20.7	79.3	0.0	
2M	04/29/2003	08:55	0.0	0.0	20.6	79.4	0.0	
30M	04/08/2003	09:31	0.0	0.0	21.1	78.9	0.0	
30M	04/16/2003	09:43	0.0	0.0	20.4	79.6	0.0	
30M	04/22/2003	09:53	0.0	0.0	21.0	79.0	0.0	
30M	04/29/2003	09:37	0.0	0.0	20.9	79.1	0.0	
31M	04/08/2003	09:33	0.0	0.0	21.1	78.9	0.0	
31M	04/16/2003	09:44	0.0	0.0	20.4	79.6	0.0	
31M	04/22/2003	09:53	0.0	0.0	21.0	79.0	0.0	
31M	04/29/2003	09:38	0.1	0.0	21.0	78.9	0.0	
32M	04/08/2003	09:34	0.0	0.0	21.1	78.9	0.0	
32M	04/16/2003	09:45	0.0	0.0	20.4	79.6	0.0	
32M	04/22/2003	09:55	0.0	0.0	21.1	78.9	0.0	
32M	04/29/2003	09:40	0.0	0.0	20.9	79.1	0.0	
33M	04/08/2003	09:35	0.0	0.0	21.1	78.9	0.0	
33M	04/16/2003	09:46	0.0	0.0	20.3	79.7	0.0	
33M	04/22/2003	09:56	0.0	0.0	21.1	78.9	0.0	
33M	04/29/2003	09:40	0.0	0.0	21.0	79.0	0.0	
34M	04/08/2003	09:37	0.0	0.0	21.0	79.0	0.0	
34M	04/16/2003	09:48	0.0	1.0	18.6	80.4	0.0	
34M	04/22/2003	09:58	0.0	0.0	21.1	78.9	0.0	
34M	04/29/2003	09:42	0.1	0.0	20.9	79.0	0.0	
35M	04/08/2003	09:38	0.0	0.0	21.1	78.9	0.0	
35M	04/16/2003	09:49	0.0	6.3	12.5	81.2	0.0	
35M	04/22/2003	09:59	0.0	0.0	21.1	78.9	0.0	
35M	04/29/2003	09:43	0.0	0.0	20.8	79.2	0.0	
36M	04/08/2003	09:39	0.0	0.0	21.0	79.0	0.0	
36M	04/16/2003	09:52	0.0	0.8	18.9	80.3	0.0	
36M	04/22/2003	10:00	0.0	0.0	21.1	78.9	0.0	
36M	04/29/2003	09:44	0.0	0.0	20.9	79.1	0.0	
37M	04/08/2003	09:40	0.0	0.4	19.6	80.0	0.0	
37M	04/16/2003	09:53	0.0	2.5	16.0	81.5	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
37M	04/22/2003	10:01	0.0	0.0	21.1	78.9	0.0	
37M	04/29/2003	09:45	0.0	0.0	20.9	79.1	0.0	
38M	04/08/2003	09:41	0.0	1.2	18.2	80.6	0.0	
38M	04/16/2003	09:54	0.0	2.5	16.1	81.4	0.0	
38M	04/22/2003	10:02	0.0	0.0	21.1	78.9	0.0	
38M	04/29/2003	09:46	0.1	0.0	20.9	79.0	0.0	
39M	04/08/2003	09:42	0.0	0.0	20.9	79.1	0.0	
39M	04/16/2003	09:56	0.0	0.4	19.6	80.0	0.0	
39M	04/22/2003	10:04	0.0	0.3	20.5	79.2	0.0	
39M	04/29/2003	09:47	0.0	0.0	20.8	79.2	0.0	
3M	04/08/2003	08:44	0.0	0.0	21.1	78.9	0.0	
3M	04/16/2003	09:01	0.0	0.0	20.1	79.9	0.0	
3M	04/22/2003	09:11	0.0	0.1	20.6	79.3	0.0	
3M	04/29/2003	08:57	0.1	0.0	20.7	79.2	0.0	
40M	04/08/2003	09:44	0.0	0.1	20.8	79.1	0.0	
40M	04/16/2003	09:57	0.0	0.1	20.1	79.8	0.0	
40M	04/22/2003	10:06	0.1	0.1	20.7	79.1	0.0	
40M	04/29/2003	09:48	0.0	0.0	20.9	79.1	0.0	
41M	04/08/2003	09:45	0.0	0.0	20.8	79.2	0.0	
41M	04/16/2003	09:58	0.0	3.9	14.5	81.6	0.0	
41M	04/22/2003	10:07	0.0	0.0	21.0	79.0	0.0	
41M	04/29/2003	09:50	0.0	0.0	20.9	79.1	0.0	
42M	04/08/2003	09:46	0.0	1.4	18.1	80.5	0.0	
42M	04/16/2003	09:59	0.0	3.7	14.6	81.7	0.0	
42M	04/22/2003	10:08	0.0	0.0	21.0	79.0	0.0	
42M	04/29/2003	09:50	0.0	0.0	20.9	79.1	0.0	
43M	04/08/2003	09:48	0.0	1.0	19.3	79.7	0.0	
43M	04/16/2003	10:01	0.1	1.7	17.7	80.5	0.0	
43M	04/22/2003	10:11	0.0	0.0	21.1	78.9	0.0	
43M	04/29/2003	09:52	0.0	0.0	20.9	79.1	0.0	
44M	04/08/2003	09:49	0.1	1.0	19.5	79.4	0.0	
44M	04/16/2003	10:02	0.0	1.8	17.7	80.5	0.0	
44M	04/22/2003	10:12	0.0	0.0	21.1	78.9	0.0	
44M	04/29/2003	09:53	0.0	0.0	21.0	79.0	0.0	
45M	04/08/2003	09:51	0.0	1.5	16.5	82.0	0.0	
45M	04/16/2003	10:04	0.0	7.3	12.2	80.5	0.0	
45M	04/22/2003	10:16	0.0	3.6	15.9	80.5	0.0	
45M	04/29/2003	09:54	0.0	0.8	19.6	79.6	0.0	
46M	04/08/2003	09:52	0.0	0.0	20.9	79.1	0.0	
46M	04/16/2003	10:05	0.0	1.6	17.4	81.0	0.0	
46M	04/22/2003	10:17	0.1	0.0	20.6	79.3	0.0	
46M	04/29/2003	09:55	0.0	0.0	20.6	79.4	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
47M	04/08/2003	09:52	0.1	0.1	20.5	79.3	0.0	
47M	04/16/2003	10:06	0.0	2.8	16.1	81.1	0.0	
47M	04/22/2003	10:18	0.0	0.0	21.0	79.0	0.0	
47M	04/29/2003	09:56	0.0	0.0	20.8	79.2	0.0	
48M	04/08/2003	09:54	0.0	1.1	19.5	79.4	0.0	
48M	04/16/2003	10:08	0.0	1.3	18.7	80.0	0.0	
48M	04/22/2003	10:20	0.0	0.6	19.5	79.9	0.0	
48M	04/29/2003	09:58	0.0	1.1	19.1	79.8	0.0	
49M	04/08/2003	09:56	0.0	1.8	18.9	79.3	0.0	
49M	04/16/2003	10:09	0.0	1.9	18.0	80.1	0.0	
49M	04/22/2003	10:23	0.0	2.4	18.1	79.5	0.0	
49M	04/29/2003	10:01	0.0	1.5	18.9	79.6	0.0	
4M	04/08/2003	08:45	0.0	0.0	21.0	79.0	0.0	
4M	04/16/2003	09:02	0.0	0.0	20.3	79.7	0.0	
4M	04/22/2003	09:12	0.0	0.0	20.7	79.3	0.0	
4M	04/29/2003	08:58	0.0	0.0	20.7	79.3	0.0	
50M	04/08/2003	09:56	0.0	0.1	20.6	79.3	0.0	
50M	04/16/2003	10:10	0.0	0.3	19.8	79.9	0.0	
50M	04/22/2003	10:24	0.0	0.0	20.9	79.1	0.0	
50M	04/29/2003	10:02	0.0	0.0	20.8	79.2	0.0	
51M	04/08/2003	09:59	0.0	0.7	19.8	79.5	0.0	
51M	04/16/2003	10:13	0.0	0.5	19.1	80.4	0.0	
51M	04/22/2003	10:27	0.0	1.1	19.1	79.8	0.0	
51M	04/29/2003	10:05	0.0	0.2	20.3	79.5	0.0	
52M	04/08/2003	10:00	0.0	0.2	20.6	79.2	0.0	
52M	04/16/2003	10:14	0.0	0.3	19.8	79.9	0.0	
52M	04/22/2003	10:27	0.0	0.3	20.4	79.3	0.0	
52M	04/29/2003	10:05	0.1	0.1	20.5	79.3	0.0	
53M	04/08/2003	10:02	0.0	0.1	20.8	79.1	0.0	
53M	04/16/2003	10:16	0.0	0.3	19.8	79.9	0.0	
53M	04/22/2003	10:29	0.0	0.2	20.5	79.3	0.0	
53M	04/29/2003	10:07	0.0	0.0	20.7	79.3	0.0	
54M	04/08/2003	10:04	0.0	2.0	17.8	80.2	0.0	
54M	04/16/2003	10:18	0.0	2.0	17.1	80.9	0.0	
54M	04/22/2003	10:31	0.0	0.0	21.0	79.0	0.0	
54M	04/29/2003	10:09	0.0	0.0	20.9	79.1	0.0	
55M	04/08/2003	10:06	0.1	1.1	19.1	79.7	0.0	
55M	04/16/2003	10:20	0.0	1.2	18.2	80.6	0.0	
55M	04/22/2003	10:33	0.0	0.0	21.1	78.9	0.0	
55M	04/29/2003	10:10	0.0	0.0	20.9	79.1	0.0	
56M	04/08/2003	10:07	0.0	0.0	21.0	79.0	0.0	
56M	04/16/2003	10:22	0.0	0.0	20.2	79.8	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
56M	04/22/2003	10:35	0.0	0.0	21.1	78.9	0.0	
56M	04/29/2003	10:12	0.1	0.0	20.9	79.0	0.0	
57M	04/08/2003	10:09	0.0	0.7	19.8	79.5	0.0	
57M	04/16/2003	10:24	0.0	0.7	19.1	80.2	0.0	
57M	04/22/2003	10:37	0.0	0.3	20.4	79.3	0.0	
57M	04/29/2003	10:14	0.1	0.0	20.9	79.0	0.0	
58M	04/08/2003	10:11	0.0	0.4	19.9	79.7	0.0	
58M	04/16/2003	10:26	0.0	1.1	18.5	80.4	0.0	
58M	04/22/2003	10:39	0.0	0.2	20.4	79.4	0.0	
58M	04/29/2003	10:16	0.0	0.0	20.9	79.1	0.0	
59M	04/08/2003	10:13	0.0	0.4	19.8	79.8	0.0	
59M	04/16/2003	10:28	0.0	0.6	19.1	80.3	0.0	
59M	04/22/2003	10:41	0.0	0.0	20.9	79.1	0.0	
59M	04/29/2003	10:18	0.0	0.0	20.8	79.2	0.0	
5M	04/08/2003	08:47	0.0	0.8	19.2	80.0	0.0	
5M	04/16/2003	09:04	0.0	0.8	19.1	80.1	0.0	
5M	04/22/2003	09:14	0.0	1.2	19.2	79.6	0.0	
5M	04/29/2003	09:00	0.1	0.2	20.5	79.2	0.0	
60M	04/08/2003	10:16	0.0	0.8	19.7	79.5	0.0	
60M	04/16/2003	10:31	0.0	0.7	19.2	80.1	0.0	
60M	04/22/2003	10:43	0.0	0.0	20.9	79.1	0.0	
60M	04/29/2003	10:19	0.1	0.0	20.8	79.1	0.0	
61M	04/08/2003	10:19	0.0	1.0	19.5	79.5	0.0	
61M	04/16/2003	10:34	0.0	1.2	18.6	80.2	0.0	
61M	04/22/2003	10:45	0.0	0.0	20.9	79.1	0.0	
61M	04/29/2003	10:21	0.1	1.0	19.4	79.5	0.0	
62M	04/08/2003	10:20	0.0	3.3	16.8	79.9	0.0	
62M	04/16/2003	10:36	0.0	3.5	16.2	80.3	0.0	
62M	04/22/2003	10:47	0.0	3.3	16.9	79.8	0.0	
62M	04/29/2003	10:22	0.1	1.7	18.1	80.1	0.0	
63M	04/08/2003	10:23	0.0	1.0	19.4	79.6	0.0	
63M	04/16/2003	10:38	0.0	1.3	18.6	80.1	0.0	
63M	04/22/2003	10:49	0.0	2.5	17.4	80.1	0.0	
63M	04/29/2003	10:24	0.1	0.6	19.6	79.7	0.0	
64M	04/08/2003	10:24	0.0	0.8	19.9	79.3	0.0	
64M	04/16/2003	10:40	0.0	0.2	19.8	80.0	0.0	
64M	04/22/2003	10:51	0.2	0.7	20.0	79.1	0.0	
64M	04/29/2003	10:26	0.0	0.0	20.7	79.3	0.0	
65M	04/08/2003	10:27	0.0	0.0	20.9	79.1	0.0	
65M	04/16/2003	10:44	0.0	0.0	20.0	80.0	0.0	
65M	04/22/2003	10:54	0.0	0.0	20.6	79.4	0.0	
65M	04/29/2003	10:28	0.1	0.0	20.8	79.1	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
66M	04/08/2003	10:28	0.0	0.0	20.9	79.1	0.0	
66M	04/16/2003	10:45	0.1	0.0	20.1	79.8	0.0	
66M	04/22/2003	10:56	0.1	0.0	20.7	79.2	0.0	
66M	04/29/2003	10:30	0.1	0.0	20.8	79.1	0.0	
67M	04/08/2003	10:31	0.0	0.0	20.9	79.1	0.0	
67M	04/16/2003	10:48	0.1	0.0	20.0	79.9	0.0	
67M	04/22/2003	10:59	0.1	0.0	20.9	79.0	0.0	
67M	04/29/2003	10:32	0.1	0.0	20.8	79.1	0.0	
68M	04/08/2003	10:32	0.0	0.3	20.4	79.3	0.0	
68M	04/16/2003	10:49	0.0	0.7	19.4	79.9	0.0	
68M	04/22/2003	11:01	0.0	0.0	21.1	78.9	0.0	
68M	04/29/2003	10:33	0.1	0.0	20.8	79.1	0.0	
69M	04/08/2003	10:35	0.0	0.0	20.9	79.1	0.0	
69M	04/16/2003	10:51	0.0	0.3	19.6	80.1	0.0	
69M	04/22/2003	11:03	0.1	0.1	20.8	79.0	0.0	
69M	04/29/2003	08:18	0.0	0.0	20.6	79.4	0.0	
6M	04/08/2003	08:48	0.0	0.0	21.0	79.0	0.0	
6M	04/16/2003	09:06	0.0	0.0	20.3	79.7	0.0	
6M	04/22/2003	09:16	0.0	0.0	20.9	79.1	0.0	
6M	04/29/2003	09:01	0.1	0.0	20.7	79.2	0.0	
70M	04/08/2003	08:09	0.0	0.0	20.7	79.3	0.0	
70M	04/16/2003	08:29	0.0	0.1	20.0	79.9	0.0	
70M	04/22/2003	08:34	0.0	0.0	20.4	79.6	0.0	
70M	04/29/2003	08:20	0.0	0.0	20.5	79.5	0.0	
71M	04/08/2003	08:11	0.0	0.0	21.2	78.8	0.0	
71M	04/16/2003	08:32	0.0	0.0	20.4	79.6	0.0	
71M	04/22/2003	08:38	0.0	0.0	20.6	79.4	0.0	
71M	04/29/2003	08:22	0.0	0.0	20.6	79.4	0.0	
72M	04/08/2003	08:14	0.0	0.0	20.7	79.3	0.0	
72M	04/16/2003	08:35	0.0	0.0	19.6	80.4	0.0	
72M	04/22/2003	08:41	0.0	0.0	20.2	79.8	0.0	
72M	04/29/2003	08:24	0.0	0.0	20.7	79.3	0.0	
73M	04/08/2003	08:17	0.0	0.0	21.2	78.8	0.0	
73M	04/16/2003	08:36	0.0	0.0	20.4	79.6	0.0	
73M	04/22/2003	08:42	0.0	0.0	20.7	79.3	0.0	
73M	04/29/2003	08:26	0.0	0.0	20.7	79.3	0.0	
74M	04/08/2003	08:21	0.0	0.0	21.2	78.8	0.0	
74M	04/16/2003	08:38	0.0	0.0	20.4	79.6	0.0	
74M	04/22/2003	08:45	0.0	0.0	20.7	79.3	0.0	
74M	04/29/2003	08:28	0.0	0.0	20.7	79.3	0.0	
75M	04/08/2003	08:23	0.0	0.0	21.0	79.0	0.0	
75M	04/16/2003	08:40	0.0	0.1	20.1	79.8	0.0	

Hewitt Pit Probe Data - 04/1/2003 to 04/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
75M	04/22/2003	08:47	0.0	0.0	20.5	79.5	0.0	
75M	04/29/2003	08:30	0.1	0.0	20.7	79.2	0.0	
76M	04/08/2003	08:26	0.0	0.0	21.1	78.9	0.0	
76M	04/16/2003	08:43	0.0	0.0	20.3	79.7	0.0	
76M	04/22/2003	08:49	0.0	0.0	20.7	79.3	0.0	
76M	04/29/2003	08:32	0.0	0.0	20.7	79.3	0.0	
77M	04/08/2003	08:29	0.0	0.0	21.1	78.9	0.0	
77M	04/16/2003	08:45	0.0	0.0	20.3	79.7	0.0	
77M	04/22/2003	08:52	0.0	0.0	20.6	79.4	0.0	
77M	04/29/2003	08:36	0.0	0.0	20.8	79.2	0.0	
78M	04/08/2003	08:31	0.0	0.4	20.2	79.4	0.0	
78M	04/16/2003	08:47	0.0	1.3	18.4	80.3	0.0	
78M	04/22/2003	08:53	0.0	0.2	20.4	79.4	0.0	
78M	04/29/2003	08:38	0.0	0.0	20.7	79.3	0.0	
79M	04/08/2003	08:32	0.0	1.7	17.7	80.6	0.0	
79M	04/16/2003	08:49	0.0	1.3	18.1	80.6	0.0	
79M	04/22/2003	08:55	0.0	0.4	19.7	79.9	0.0	
79M	04/29/2003	08:40	0.0	0.3	19.8	79.9	0.0	
7M	04/08/2003	08:49	0.0	0.0	21.1	78.9	0.0	
7M	04/16/2003	09:07	0.0	0.4	19.8	79.8	0.0	
7M	04/22/2003	09:16	0.0	0.0	20.9	79.1	0.0	
7M	04/29/2003	09:02	0.0	0.0	20.8	79.2	0.0	
80M	04/08/2003	08:35	0.0	0.0	21.0	79.0	0.0	
80M	04/16/2003	08:54	0.0	0.0	20.2	79.8	0.0	
80M	04/22/2003	08:58	0.0	0.0	20.7	79.3	0.0	
80M	04/29/2003	08:44	0.1	0.0	20.7	79.2	0.0	
81M	04/08/2003	08:37	0.0	0.0	21.1	78.9	0.0	
81M	04/16/2003	08:55	0.0	0.0	20.3	79.7	0.0	
81M	04/22/2003	09:00	0.0	0.0	20.8	79.2	0.0	
81M	04/29/2003	08:45	0.0	0.0	20.7	79.3	0.0	
8M	04/08/2003	08:51	0.1	1.6	18.9	79.4	0.0	
8M	04/16/2003	09:12	0.0	0.4	19.6	80.0	0.0	
8M	04/22/2003	09:18	0.0	1.3	19.2	79.5	0.0	
8M	04/29/2003	09:04	0.1	1.0	19.4	79.5	0.0	
9M	04/08/2003	08:52	0.0	0.0	20.8	79.2	0.0	
9M	04/16/2003	09:13	0.0	1.3	18.8	79.9	0.0	
9M	04/22/2003	09:19	0.0	1.8	18.5	79.7	0.0	
9M	04/29/2003	09:05	0.0	0.7	19.5	79.8	0.0	
FLARE	04/08/2003	07:07	21.3	24.0	3.7	51.0	9.1	
FLARE	04/22/2003	07:47	21.0	24.1	3.9	51.0	9.3	
FLARE	04/29/2003	07:43	19.9	23.4	4.0	52.7	10.1	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Field Technician and Weather Conditions						
Technician	Date	Ambient Temp	Barometric Pressure (in - Hg)	General Weather	Wind Speed	Wind Direction
Tony	05/08/2003	62	2998	Cloudy	Breezy Wind	W
erik	05/14/2003	74	2998	Clear		
jose	05/14/2003	74	2998	Clear		
erik	05/20/2003	80	2996	Clear		
jose	05/20/2003	80	2996	Clear		
erik m	05/27/2003	80	2994	Clear		
jose a	05/27/2003	88	2996	Clear		

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
01M	05/08/2003	07:07	0.0	3.0	17.3	79.7	0.0	
01M	05/14/2003	09:20	0.0	2.5	17.6	79.9	0.0	
01M	05/20/2003	08:50	0.0	1.8	19.0	79.2	0.0	
01M	05/27/2003	08:41	0.0	1.5	19.1	79.4	0.0	
02M	05/08/2003	07:07	0.0	0.0	20.3	79.7	0.0	
02M	05/14/2003	08:21	0.0	0.0	20.7	79.3	0.0	
02M	05/20/2003	08:50	0.0	0.0	21.2	78.8	0.0	
02M	05/27/2003	08:41	0.0	0.0	20.8	79.2	0.0	
03M	05/08/2003	07:09	0.0	0.6	20.3	79.1	0.0	
03M	05/14/2003	09:23	0.0	0.3	20.1	79.6	0.0	
03M	05/20/2003	08:53	0.0	0.0	21.2	78.8	0.0	
03M	05/27/2003	08:43	0.0	0.0	20.9	79.1	0.0	
04M	05/08/2003	07:10	0.0	0.5	20.2	79.3	0.0	
04M	05/14/2003	08:24	0.0	0.6	20.3	79.1	0.0	
04M	05/20/2003	08:54	0.0	0.1	21.0	78.9	0.0	
04M	05/27/2003	08:44	0.0	0.0	20.8	79.2	0.0	
05M	05/08/2003	07:12	0.0	0.1	20.3	79.6	0.0	
05M	05/14/2003	09:26	0.0	0.1	20.5	79.4	0.0	
05M	05/20/2003	09:01	0.0	0.7	19.8	79.5	0.0	
05M	05/27/2003	08:46	0.0	0.4	19.7	79.9	0.0	
06M	05/08/2003	07:13	0.0	0.0	20.6	79.4	0.0	
06M	05/14/2003	08:27	0.0	0.0	20.6	79.4	0.0	
06M	05/20/2003	09:02	0.0	0.0	21.2	78.8	0.0	
06M	05/27/2003	08:47	0.0	0.0	20.9	79.1	0.0	
07M	05/08/2003	07:13	0.0	0.0	20.5	79.5	0.0	
07M	05/14/2003	09:28	0.0	0.2	20.1	79.7	0.0	
07M	05/20/2003	09:03	0.0	0.0	21.2	78.8	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
07M	05/27/2003	08:48	0.0	0.0	20.9	79.1	0.0	
08M	05/08/2003	07:15	0.0	2.7	18.2	79.1	0.0	
08M	05/14/2003	08:31	0.0	2.5	18.5	79.0	0.0	
08M	05/20/2003	09:05	0.0	1.8	18.9	79.3	0.0	
08M	05/27/2003	08:50	0.0	1.0	19.7	79.3	0.0	
09M	05/08/2003	07:16	0.0	1.9	18.3	79.8	0.0	
09M	05/14/2003	09:30	0.1	0.9	19.6	79.4	0.0	
09M	05/20/2003	09:06	0.0	0.3	20.7	79.0	0.0	
09M	05/27/2003	08:51	0.0	0.0	20.6	79.4	0.0	
10M	05/08/2003	07:18	0.0	0.6	19.0	80.4	0.0	
10M	05/14/2003	09:32	0.0	0.1	20.1	79.8	0.0	
10M	05/20/2003	09:08	0.0	0.0	20.7	79.3	0.0	
10M	05/27/2003	08:52	0.0	0.0	20.2	79.8	0.0	
11M	05/08/2003	07:18	0.0	0.7	18.2	81.1	0.0	
11M	05/14/2003	09:33	0.0	0.1	19.9	80.0	0.0	
11M	05/20/2003	09:09	0.0	0.0	20.8	79.2	0.0	
11M	05/27/2003	08:54	0.0	0.0	20.4	79.6	0.0	
12M	05/08/2003	07:19	0.0	0.0	19.8	80.2	0.0	
12M	05/14/2003	09:34	0.0	0.0	20.7	79.3	0.0	
12M	05/20/2003	09:10	0.1	0.0	21.0	78.9	0.0	
12M	05/27/2003	08:54	0.0	0.0	20.7	79.3	0.0	
13M	05/08/2003	07:20	0.0	3.5	15.7	80.8	0.0	
13M	05/14/2003	08:34	0.0	1.7	19.0	79.3	0.0	
13M	05/20/2003	09:11	0.0	0.0	21.1	78.9	0.0	
13M	05/27/2003	08:55	0.0	0.1	20.4	79.5	0.0	
14M	05/08/2003	07:21	0.0	0.1	18.9	81.0	0.0	
14M	05/14/2003	08:35	0.0	0.0	20.6	79.4	0.0	
14M	05/20/2003	09:11	0.0	0.0	21.1	78.9	0.0	
14M	05/27/2003	08:56	0.0	0.0	20.8	79.2	0.0	
15M	05/08/2003	07:24	0.0	1.9	18.0	80.1	0.0	
15M	05/14/2003	09:38	0.0	1.0	18.0	81.0	0.0	
15M	05/20/2003	09:17	0.0	1.7	18.7	79.6	0.0	
15M	05/27/2003	08:59	0.0	1.2	19.2	79.6	0.0	
16M	05/08/2003	07:26	0.0	0.0	20.3	79.7	0.0	
16M	05/14/2003	08:40	0.0	0.0	20.7	79.3	0.0	
16M	05/20/2003	09:19	0.0	0.0	21.0	79.0	0.0	
16M	05/27/2003	09:00	0.0	0.0	20.7	79.3	0.0	
17M	05/08/2003	07:27	0.0	0.1	20.3	79.6	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (inch H2O)	Comments
17M	05/14/2003	09:41	0.0	0.3	19.7	80.0	0.0	
17M	05/20/2003	09:21	0.0	0.0	20.5	79.5	0.0	
17M	05/27/2003	09:02	0.0	0.0	20.7	79.3	0.0	
18M	05/08/2003	07:28	0.0	0.2	19.7	80.1	0.0	
18M	05/14/2003	09:42	0.0	0.1	20.3	79.6	0.0	
18M	05/20/2003	09:22	0.0	0.1	20.7	79.2	0.0	
18M	05/27/2003	09:03	0.0	0.1	20.5	79.4	0.0	
19M	05/08/2003	07:30	0.0	0.0	20.4	79.6	0.1	
19M	05/14/2003	08:43	0.0	0.0	20.7	79.3	0.0	
19M	05/20/2003	08:22	0.0	0.0	20.9	79.1	0.0	
19M	05/27/2003	08:21	0.0	0.0	20.7	79.3	0.0	
20M	05/08/2003	07:33	0.0	0.0	20.5	79.5	0.0	
20M	05/14/2003	09:44	0.1	0.0	20.7	79.2	0.0	
20M	05/20/2003	08:25	0.0	0.0	20.9	79.1	0.0	
20M	05/27/2003	08:23	0.0	0.0	20.7	79.3	0.0	
21M	05/08/2003	07:34	0.0	0.0	20.5	79.5	0.0	
21M	05/14/2003	08:46	0.0	0.0	20.7	79.3	0.0	
21M	05/20/2003	08:26	0.0	0.0	20.8	79.2	0.0	
21M	05/27/2003	08:24	0.0	0.0	20.8	79.2	0.0	
22M	05/08/2003	07:35	0.0	0.0	20.6	79.4	0.0	
22M	05/14/2003	09:46	0.0	0.0	20.8	79.2	0.0	
22M	05/20/2003	08:28	0.0	0.0	20.8	79.2	0.0	
22M	05/27/2003	08:26	0.0	0.0	20.8	79.2	0.0	
23M	05/08/2003	07:36	0.0	0.1	20.2	79.7	0.0	
23M	05/14/2003	08:48	0.0	1.2	19.0	79.8	0.0	
23M	05/20/2003	08:29	0.0	0.3	19.9	79.8	0.0	
23M	05/27/2003	08:27	0.0	0.0	20.8	79.2	0.0	
24M	05/08/2003	07:37	0.0	0.0	20.4	79.6	0.0	
24M	05/14/2003	09:48	0.0	0.0	20.8	79.2	0.0	
24M	05/14/2003	09:50	0.0	0.0	20.8	79.2	0.0	
24M	05/20/2003	08:31	0.0	0.0	20.6	79.4	0.0	
24M	05/27/2003	08:28	0.0	0.0	20.8	79.2	0.0	
25M	05/08/2003	07:37	0.0	0.9	19.0	80.1	0.0	
25M	05/14/2003	09:49	0.0	0.0	20.8	79.2	0.0	
25M	05/20/2003	08:32	0.0	0.3	19.9	79.8	0.0	
25M	05/27/2003	08:29	0.0	0.0	20.7	79.3	0.0	
26M	05/08/2003	07:38	0.0	0.0	20.1	79.9	0.0	
26M	05/14/2003	08:50	0.0	0.5	19.9	79.6	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
26M	05/20/2003	08:33	0.0	0.7	19.8	79.5	0.0	
26M	05/27/2003	08:30	0.0	0.2	20.3	79.5	0.0	
27M	05/08/2003	07:39	0.0	0.0	20.4	79.6	0.0	
27M	05/14/2003	08:52	0.0	0.0	20.6	79.4	0.0	
27M	05/20/2003	08:34	0.0	0.0	20.7	79.3	0.0	
27M	05/27/2003	08:31	0.0	0.0	20.8	79.2	0.0	
28M	05/08/2003	07:40	0.0	0.1	20.3	79.6	0.0	
28M	05/14/2003	08:53	0.0	0.1	20.3	79.6	0.0	
28M	05/20/2003	08:35	0.0	0.3	20.1	79.6	0.0	
28M	05/27/2003	08:32	0.0	0.1	20.5	79.4	0.0	
29M	05/08/2003	07:41	0.0	0.0	20.5	79.5	0.0	
29M	05/14/2003	09:52	0.0	0.0	20.8	79.2	0.0	
29M	05/20/2003	08:36	0.0	0.0	20.7	79.3	0.0	
29M	05/27/2003	08:33	0.0	0.0	20.8	79.2	0.0	
30M	05/08/2003	07:41	0.0	0.0	20.6	79.4	0.0	
30M	05/14/2003	09:52	0.0	0.0	20.8	79.2	0.0	
30M	05/20/2003	08:37	0.0	0.0	20.7	79.3	0.0	
30M	05/27/2003	08:34	0.0	0.0	20.8	79.2	-0.1	
31M	05/08/2003	07:44	0.0	0.0	20.7	79.3	0.0	
31M	05/14/2003	08:55	0.0	0.0	20.7	79.3	0.0	
31M	05/20/2003	08:38	0.0	0.0	20.8	79.2	0.0	
31M	05/27/2003	08:35	0.0	0.0	20.8	79.2	0.0	
32M	05/08/2003	07:45	0.0	0.0	20.6	79.4	0.0	
32M	05/14/2003	09:54	0.0	0.0	20.8	79.2	0.0	
32M	05/20/2003	08:40	0.0	0.0	20.7	79.3	0.0	
32M	05/27/2003	08:37	0.0	0.0	20.9	79.1	0.0	
33M	05/08/2003	07:45	0.0	0.0	20.6	79.4	0.0	
33M	05/14/2003	09:55	0.0	0.0	20.8	79.2	0.0	
33M	05/20/2003	08:41	0.0	0.0	20.7	79.3	0.0	
33M	05/27/2003	08:37	0.0	0.0	20.9	79.1	0.0	
34M	05/08/2003	07:46	0.0	0.1	20.3	79.6	0.0	
34M	05/14/2003	09:56	0.0	0.0	20.8	79.2	0.0	
34M	05/20/2003	08:42	0.0	0.0	20.7	79.3	0.0	
34M	05/27/2003	08:39	0.0	0.0	20.9	79.1	0.0	
35M	05/08/2003	07:47	0.0	0.1	20.3	79.6	0.0	
35M	05/14/2003	09:57	0.0	0.0	20.8	79.2	0.0	
35M	05/20/2003	08:44	0.0	0.0	20.7	79.3	0.0	
35M	05/27/2003	08:40	0.0	0.0	21.0	79.0	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
36M	05/08/2003	07:48	0.0	0.0	20.3	79.7	0.0	
36M	05/14/2003	08:57	0.0	0.0	20.7	79.3	0.0	
36M	05/20/2003	08:45	0.0	0.2	20.3	79.5	0.0	
36M	05/27/2003	08:41	0.0	0.0	21.0	79.0	0.0	
37M	05/08/2003	07:49	0.0	0.0	20.6	79.4	0.0	
37M	05/14/2003	08:59	0.0	0.0	20.7	79.3	0.0	
37M	05/20/2003	08:46	0.0	0.0	20.7	79.3	0.0	
37M	05/27/2003	08:42	0.0	0.0	21.1	78.9	0.0	
38M	05/08/2003	07:50	0.0	0.0	20.6	79.4	0.0	
38M	05/14/2003	09:00	0.0	0.0	20.7	79.3	0.0	
38M	05/20/2003	08:47	0.0	0.0	20.7	79.3	0.0	
38M	05/27/2003	08:43	0.0	0.0	21.0	79.0	0.0	
39M	05/08/2003	07:51	0.0	0.1	20.5	79.4	0.0	
39M	05/14/2003	09:58	0.0	0.0	20.8	79.2	0.0	
39M	05/20/2003	08:48	0.0	0.3	20.1	79.6	0.0	
39M	05/27/2003	08:44	0.0	0.2	20.6	79.2	0.0	
40M	05/08/2003	07:52	0.0	0.2	20.2	79.6	0.0	
40M	05/14/2003	09:59	0.1	0.2	20.6	79.1	0.0	
40M	05/20/2003	08:49	0.0	0.3	20.3	79.4	0.0	
40M	05/27/2003	08:45	0.0	0.2	20.8	79.0	0.0	
41M	05/08/2003	07:53	0.0	0.0	20.6	79.4	0.0	
41M	05/14/2003	09:02	0.0	0.0	20.7	79.3	0.0	
41M	05/20/2003	08:51	0.0	0.0	20.7	79.3	0.0	
41M	05/27/2003	08:46	0.0	0.0	21.1	78.9	0.0	
42M	05/08/2003	07:54	0.0	0.0	20.6	79.4	0.0	
42M	05/14/2003	09:03	0.0	0.0	20.7	79.3	0.0	
42M	05/20/2003	08:52	0.0	0.0	20.7	79.3	0.0	
42M	05/27/2003	08:47	0.0	0.0	21.1	78.9	0.0	
43M	05/08/2003	07:55	0.0	0.0	20.6	79.4	0.0	
43M	05/14/2003	10:01	0.0	0.0	20.8	79.2	0.0	
43M	05/20/2003	08:53	0.0	0.2	20.2	79.6	0.0	
43M	05/27/2003	08:48	0.0	0.0	21.1	78.9	0.0	
44M	05/08/2003	07:56	0.0	0.0	20.6	79.4	0.0	
44M	05/14/2003	10:02	0.0	0.0	20.8	79.2	0.0	
44M	05/20/2003	08:54	0.0	0.6	19.5	79.9	0.0	
44M	05/27/2003	08:49	0.0	0.1	20.7	79.2	0.0	
45M	05/08/2003	07:57	0.0	1.2	19.5	79.3	0.0	
45M	05/14/2003	09:05	0.0	3.8	16.9	79.3	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
45M	05/20/2003	08:56	0.0	2.0	17.5	80.5	0.0	
45M	05/27/2003	08:51	0.0	1.2	18.9	79.9	0.0	
46M	05/08/2003	07:58	0.0	0.0	20.3	79.7	0.0	
46M	05/14/2003	10:04	0.0	0.0	20.8	79.2	0.0	
46M	05/20/2003	08:57	0.0	0.0	20.5	79.5	0.0	
46M	05/27/2003	08:52	0.0	0.0	20.8	79.2	0.0	
47M	05/08/2003	07:59	0.0	0.0	20.5	79.5	0.0	
47M	05/14/2003	10:05	0.0	0.0	20.8	79.2	0.0	
47M	05/20/2003	08:58	0.0	0.0	20.7	79.3	0.0	
47M	05/27/2003	08:52	0.0	0.0	21.1	78.9	0.0	
48M	05/08/2003	08:00	0.0	2.9	17.8	79.3	0.0	
48M	05/14/2003	09:06	0.0	2.5	18.0	79.5	0.0	
48M	05/20/2003	08:59	0.0	1.4	19.0	79.6	0.0	
48M	05/27/2003	08:53	0.0	0.6	20.2	79.2	0.0	
49M	05/08/2003	08:02	0.0	1.0	18.5	80.5	0.0	
49M	05/14/2003	10:07	0.0	2.7	17.9	79.4	0.0	
49M	05/20/2003	09:01	0.0	3.0	17.8	79.2	0.0	
49M	05/27/2003	08:55	0.0	2.8	18.3	78.9	0.0	
50M	05/08/2003	08:02	0.0	0.0	20.4	79.6	0.0	
50M	05/14/2003	10:08	0.0	0.7	18.9	80.4	0.0	
50M	05/20/2003	09:03	0.0	2.3	18.0	79.7	0.0	
50M	05/27/2003	08:56	0.0	0.0	20.9	79.1	0.0	
51M	05/08/2003	08:04	0.0	1.6	18.9	79.5	0.0	
51M	05/14/2003	09:10	0.0	2.0	18.2	79.8	0.0	
51M	05/20/2003	09:06	0.0	1.6	18.3	80.1	0.0	
51M	05/27/2003	08:58	0.0	1.7	18.8	79.5	0.0	
52M	05/08/2003	08:05	0.0	0.3	19.9	79.8	0.0	
52M	05/14/2003	09:11	0.0	0.6	19.9	79.5	0.0	
52M	05/20/2003	09:07	0.0	0.6	19.8	79.6	0.0	
52M	05/27/2003	08:59	0.0	0.3	20.4	79.3	0.0	
53M	05/08/2003	08:07	0.0	0.8	19.7	79.5	0.0	
53M	05/14/2003	10:11	0.0	0.2	20.2	79.6	0.0	
53M	05/20/2003	09:10	0.0	0.3	19.9	79.8	0.0	
53M	05/27/2003	09:01	0.0	0.5	20.4	79.1	0.0	
54M	05/08/2003	08:08	0.0	0.0	20.4	79.6	0.0	
54M	05/14/2003	10:13	0.0	0.0	20.9	79.1	0.0	
54M	05/20/2003	09:12	0.0	0.0	20.6	79.4	0.0	
54M	05/27/2003	09:03	0.0	0.0	21.0	79.0	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
55M	05/08/2003	08:09	0.0	0.0	20.6	79.4	0.0	
55M	05/14/2003	09:15	0.0	3.9	16.1	80.0	0.0	
55M	05/20/2003	09:15	0.0	0.0	20.4	79.6	0.0	
55M	05/27/2003	09:04	0.0	0.1	20.7	79.2	0.0	
56M	05/08/2003	08:10	0.0	0.0	20.6	79.4	0.0	
56M	05/14/2003	10:15	0.0	0.0	20.8	79.2	0.0	
56M	05/20/2003	09:16	0.0	0.0	20.6	79.4	0.0	
56M	05/27/2003	09:05	0.0	0.0	21.0	79.0	0.0	
57M	05/08/2003	08:11	0.0	0.0	20.7	79.3	0.0	
57M	05/14/2003	09:17	0.0	0.7	19.6	79.7	0.0	
57M	05/20/2003	09:18	0.0	0.0	20.6	79.4	0.0	
57M	05/27/2003	09:07	0.0	0.0	21.1	78.9	0.0	
58M	05/08/2003	08:13	0.0	0.0	20.7	79.3	0.0	
58M	05/14/2003	10:17	0.0	0.0	20.8	79.2	0.0	
58M	05/20/2003	09:20	0.0	0.0	20.6	79.4	0.0	
58M	05/27/2003	09:08	0.0	0.0	21.0	79.0	0.0	
59M	05/08/2003	08:14	0.0	0.0	20.7	79.3	0.0	
59M	05/14/2003	09:20	0.0	0.1	20.3	79.6	0.0	
59M	05/20/2003	09:22	0.0	0.0	20.6	79.4	0.0	
59M	05/27/2003	09:10	0.0	0.0	20.9	79.1	0.0	
60M	05/08/2003	08:15	0.0	0.0	20.7	79.3	0.0	
60M	05/14/2003	10:19	0.1	0.3	20.2	79.4	0.0	
60M	05/20/2003	09:24	0.0	0.5	19.9	79.6	0.0	
60M	05/27/2003	09:12	0.0	0.5	20.3	79.2	0.0	
61M	05/08/2003	08:17	0.0	1.3	19.2	79.5	0.0	
61M	05/14/2003	09:30	0.0	4.5	16.0	79.5	0.0	
61M	05/14/2003	10:29	0.0	0.9	19.3	79.8	0.0	
61M	05/20/2003	09:26	0.0	1.0	19.2	79.8	0.0	
61M	05/27/2003	09:13	0.0	0.7	20.0	79.3	0.0	
62M	05/08/2003	08:18	0.0	4.0	16.5	79.5	0.0	
62M	05/20/2003	09:27	0.0	4.3	15.5	80.2	0.0	
62M	05/27/2003	09:14	0.0	2.6	16.5	80.9	0.0	
63M	05/08/2003	08:19	0.0	2.2	17.9	79.9	0.0	
63M	05/14/2003	10:31	0.1	2.6	17.4	79.9	0.0	
63M	05/20/2003	09:30	0.0	0.9	19.2	79.9	0.0	
63M	05/27/2003	09:20	0.0	0.6	19.9	79.5	0.0	
63M	05/27/2003	09:21	0.0	0.8	19.8	79.4	0.0	
64M	05/08/2003	08:21	0.2	1.9	19.0	78.9	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
64M	05/14/2003	09:34	0.4	2.5	18.8	78.3	0.0	
64M	05/20/2003	09:27	0.6	1.8	19.4	78.2	0.0	
64M	05/27/2003	09:07	0.3	1.3	19.4	79.0	0.0	
65M	05/08/2003	08:24	0.0	0.0	20.3	79.7	0.0	
65M	05/14/2003	09:37	0.0	0.2	20.3	79.5	0.0	
65M	05/20/2003	09:29	0.0	0.0	20.7	79.3	0.0	
65M	05/27/2003	09:09	0.0	0.1	20.5	79.4	0.0	
66M	05/08/2003	08:25	0.0	0.1	20.4	79.5	0.0	
66M	05/14/2003	10:36	0.0	0.0	20.5	79.5	0.0	
66M	05/20/2003	09:34	0.0	0.1	20.0	79.9	0.0	
66M	05/27/2003	09:10	0.0	0.0	20.4	79.6	0.0	
67M	05/08/2003	08:27	0.0	0.0	20.5	79.5	0.0	
67M	05/14/2003	10:39	0.0	0.0	20.7	79.3	0.0	
67M	05/20/2003	09:33	0.0	0.0	20.9	79.1	0.0	
67M	05/27/2003	09:12	0.0	0.0	20.6	79.4	0.0	
68M	05/08/2003	08:28	0.0	0.0	20.6	79.4	0.0	
68M	05/14/2003	09:41	0.0	0.0	20.5	79.5	0.0	
68M	05/20/2003	09:37	0.0	0.0	20.3	79.7	0.0	
68M	05/27/2003	09:13	0.0	0.0	20.6	79.4	0.0	
69M	05/08/2003	08:29	0.0	0.2	20.1	79.7	0.0	
69M	05/14/2003	10:41	0.0	0.0	20.7	79.3	0.0	
69M	05/20/2003	09:35	0.0	0.2	20.7	79.1	0.0	
69M	05/27/2003	09:15	0.0	0.1	20.4	79.5	0.0	
70M	05/08/2003	08:40	0.0	0.8	18.7	80.5	0.1	
70M	05/14/2003	07:43	0.0	0.5	20.1	79.4	0.0	
70M	05/20/2003	08:22	0.0	0.3	20.2	79.5	0.0	
70M	05/27/2003	08:10	0.0	0.3	20.2	79.5	0.0	
71M	05/08/2003	08:43	0.0	0.0	20.3	79.7	0.2	
71M	05/14/2003	08:48	0.0	0.0	20.8	79.2	0.0	
71M	05/20/2003	08:24	0.0	0.0	20.9	79.1	0.0	
71M	05/27/2003	08:13	0.0	0.0	20.7	79.3	0.0	
72M	05/08/2003	08:44	0.0	0.0	20.5	79.5	0.0	
72M	05/14/2003	08:51	0.1	0.2	20.2	79.5	0.0	
72M	05/20/2003	08:27	0.0	0.1	20.7	79.2	0.0	
72M	05/27/2003	08:15	0.0	0.0	20.8	79.2	0.0	
73M	05/08/2003	08:45	0.0	0.0	20.4	79.6	0.0	
73M	05/14/2003	07:54	0.0	0.0	20.7	79.3	0.0	
73M	05/20/2003	08:29	0.0	0.0	21.1	78.9	0.0	

Hewitt Pit

Perimeter Probe Data

05/01/2003 to 05/30/2003

Probe ID	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
73M	05/27/2003	08:17	0.0	0.0	20.8	79.2	0.0	
74M	05/08/2003	08:47	0.0	0.0	20.4	79.6	0.0	
74M	05/14/2003	07:57	0.0	0.0	20.7	79.3	0.0	
74M	05/20/2003	08:32	0.0	0.0	21.1	78.9	0.0	
74M	05/27/2003	08:20	0.0	0.0	20.8	79.2	0.0	
75M	05/08/2003	08:50	0.0	0.0	20.5	79.5	0.0	
75M	05/14/2003	07:59	0.0	0.0	20.6	79.4	0.0	
75M	05/20/2003	08:34	0.0	0.0	20.9	79.1	0.0	
75M	05/27/2003	08:23	0.0	0.0	20.7	79.3	0.0	
76M	05/08/2003	08:52	0.0	0.0	20.7	79.3	0.0	
76M	05/14/2003	08:02	0.0	0.0	20.7	79.3	0.0	
76M	05/20/2003	08:37	0.0	0.0	21.1	78.9	0.0	
76M	05/27/2003	08:25	0.0	0.0	20.8	79.2	0.0	
77M	05/08/2003	08:54	0.0	0.0	20.7	79.3	0.0	
77M	05/14/2003	08:05	0.0	0.0	20.7	79.3	0.0	
77M	05/20/2003	08:39	0.0	0.0	21.1	78.9	0.0	
77M	05/27/2003	08:28	0.0	0.0	20.8	79.2	0.0	
78M	05/08/2003	08:56	0.0	0.0	20.7	79.3	0.0	
78M	05/14/2003	08:08	0.0	0.0	20.7	79.3	0.0	
78M	05/20/2003	08:41	0.0	0.4	20.3	79.3	0.0	
78M	05/27/2003	08:30	0.0	0.3	19.9	79.8	0.0	
79M	05/08/2003	08:58	0.0	0.2	20.3	79.5	0.0	
79M	05/14/2003	08:10	0.0	0.6	19.8	79.6	0.0	
79M	05/20/2003	08:43	0.0	4.2	15.0	80.8	0.0	
79M	05/27/2003	08:31	0.0	2.2	16.7	81.1	0.0	
80M	05/08/2003	09:00	0.0	0.0	20.8	79.2	0.0	
80M	05/14/2003	08:13	0.0	0.0	20.5	79.5	0.0	
80M	05/20/2003	08:45	0.0	0.0	21.0	79.0	0.0	
80M	05/27/2003	08:35	0.0	0.0	20.7	79.3	0.0	
81M	05/08/2003	09:02	0.0	0.0	20.7	79.3	0.0	
81M	05/14/2003	08:15	0.0	0.1	20.6	79.3	0.0	
81M	05/20/2003	08:47	0.0	0.0	21.1	78.9	0.0	
81M	05/27/2003	08:37	0.0	0.0	20.7	79.3	0.0	
FLARE	05/08/2003	08:32	23.7	25.3	2.6	48.4	-21.3	Flow rate : 475 scfm
FLARE	05/14/2003	07:53	22.8	24.7	3.4	49.1	6.8	Flow rate : 439 scfm
FLARE	05/20/2003	07:46	22.0	24.5	3.8	49.7	7.6	Flow rate : 442 scfm
FLARE	05/27/2003	07:34	20.7	23.8	3.7	51.8	8.2	Flow rate : 459 scfm

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Field Technician and Weather Conditions						
Technician	Date	Ambient Temp	Barometric Pressure (in - Hg)	General Weather	Wind Speed	Wind Direction
erik m	06/02/2003	76	2994	Partly Cloudy		
erik m.	06/09/2003	68	2994	Cloudy		
erik m.	06/17/2003	68	2996	Cloudy		
jose m.	06/17/2003	68	2996	Cloudy		
erik m.	06/24/2003	78	2996	Cloudy		
jose a.	06/24/2003	76	2996	Cloudy		

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
01M	06/02/2003	11:04	0.0	1.7	18.8	79.5	0.0	
01M	06/09/2003	11:07	0.0	1.8	18.8	79.4	0.0	
01M	06/17/2003	08:56	0.0	2.2	18.8	79.0	0.0	
01M	06/24/2003	08:19	0.0	2.1	18.7	79.2	0.0	
02M	06/02/2003	11:05	0.0	0.0	20.5	79.5	0.0	
02M	06/09/2003	11:08	0.0	0.0	20.5	79.5	0.0	
02M	06/17/2003	08:57	0.0	0.0	20.8	79.2	0.0	
02M	06/24/2003	08:19	0.0	0.0	20.7	79.3	0.0	
03M	06/02/2003	11:09	0.0	0.0	20.5	79.5	0.0	
03M	06/09/2003	11:10	0.0	0.0	20.5	79.5	0.0	
03M	06/17/2003	08:59	0.0	0.2	20.7	79.1	0.0	
03M	06/24/2003	08:22	0.0	0.2	20.8	79.0	0.0	
04M	06/02/2003	11:10	0.0	0.0	20.6	79.4	0.0	
04M	06/09/2003	11:11	0.0	0.1	20.5	79.4	0.0	
04M	06/17/2003	09:00	0.0	0.3	20.7	79.0	0.0	
04M	06/24/2003	08:23	0.0	0.2	20.8	79.0	0.0	
05M	06/02/2003	11:12	0.0	2.1	17.4	80.5	0.0	
05M	06/09/2003	11:14	0.0	0.8	19.5	79.7	0.0	
05M	06/17/2003	09:02	0.0	1.2	19.3	79.5	0.0	
05M	06/24/2003	08:25	0.0	0.1	20.7	79.2	0.0	
06M	06/02/2003	11:14	0.0	0.0	20.6	79.4	0.0	
06M	06/09/2003	11:15	0.0	0.0	20.5	79.5	0.0	
06M	06/17/2003	09:03	0.0	0.1	20.7	79.2	0.0	
06M	06/24/2003	08:26	0.0	0.0	20.8	79.2	0.0	
07M	06/02/2003	11:18	0.0	0.0	20.6	79.4	0.0	
07M	06/09/2003	11:16	0.0	0.0	20.6	79.4	0.0	
07M	06/17/2003	09:04	0.0	0.0	20.9	79.1	0.0	
07M	06/24/2003	08:27	0.0	0.0	20.8	79.2	0.0	
08M	06/02/2003	11:20	0.0	0.9	19.8	79.3	0.0	
08M	06/09/2003	11:19	0.0	1.0	19.7	79.3	0.0	
08M	06/17/2003	09:06	0.0	0.9	20.4	78.7	0.0	
08M	06/24/2003	08:29	0.0	0.4	20.3	79.3	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
09M	06/02/2003	11:21	0.0	0.2	20.0	79.8	0.0	
09M	06/09/2003	11:20	0.0	0.3	20.0	79.7	0.0	
09M	06/17/2003	09:07	0.0	0.4	20.2	79.4	0.0	
09M	06/24/2003	08:29	0.0	0.3	20.3	79.4	0.0	
10M	06/02/2003	11:23	0.0	0.0	20.2	79.8	0.0	
10M	06/09/2003	11:22	0.0	0.0	20.4	79.6	0.0	
10M	06/17/2003	09:09	0.0	0.2	20.5	79.3	0.0	
10M	06/24/2003	08:31	0.0	0.0	20.7	79.3	0.0	
11M	06/02/2003	11:24	0.0	0.0	20.5	79.5	0.0	
11M	06/09/2003	11:23	0.0	0.0	20.6	79.4	0.0	
11M	06/17/2003	09:09	0.0	0.0	20.7	79.3	0.0	
11M	06/24/2003	08:32	0.0	0.0	20.7	79.3	0.0	
12M	06/02/2003	11:24	0.0	0.0	20.6	79.4	0.0	
12M	06/09/2003	11:24	0.0	0.0	20.6	79.4	0.0	
12M	06/17/2003	09:10	0.0	0.0	20.8	79.2	0.0	
12M	06/24/2003	08:33	0.0	0.1	20.6	79.3	0.0	
13M	06/02/2003	11:26	0.0	0.0	20.4	79.6	0.0	
13M	06/09/2003	11:25	0.0	0.1	20.3	79.6	0.0	
13M	06/17/2003	09:12	0.0	0.4	20.4	79.2	0.0	
13M	06/24/2003	08:35	0.0	0.3	20.3	79.4	0.0	
14M	06/02/2003	11:27	0.0	0.0	20.7	79.3	0.0	
14M	06/09/2003	11:26	0.0	0.0	20.6	79.4	0.0	
14M	06/17/2003	09:12	0.0	0.0	20.9	79.1	0.0	
14M	06/24/2003	08:35	0.0	0.0	20.7	79.3	0.0	
15M	06/02/2003	11:29	0.0	0.7	19.5	79.8	0.0	
15M	06/09/2003	11:29	0.0	1.3	19.4	79.3	0.0	
15M	06/17/2003	09:15	0.0	0.8	19.9	79.3	0.0	
15M	06/24/2003	08:38	0.0	1.3	19.4	79.3	0.0	
16M	06/02/2003	11:31	0.0	0.0	20.6	79.4	0.0	
16M	06/09/2003	11:31	0.0	0.0	20.6	79.4	0.0	
16M	06/17/2003	09:16	0.0	0.1	20.8	79.1	0.0	
16M	06/24/2003	08:40	0.0	0.0	20.7	79.3	0.0	
17M	06/02/2003	11:33	0.0	0.0	20.5	79.5	0.0	
17M	06/09/2003	11:33	0.0	0.2	20.0	79.8	0.0	
17M	06/17/2003	09:18	0.0	0.5	20.0	79.5	0.0	
17M	06/24/2003	08:42	0.0	0.6	19.9	79.5	0.0	
18M	06/02/2003	11:34	0.0	0.1	20.3	79.6	0.0	
18M	06/09/2003	11:34	0.0	0.1	20.3	79.6	0.0	
18M	06/17/2003	09:19	0.0	0.3	20.5	79.2	0.0	
18M	06/24/2003	08:56	0.0	0.2	20.4	79.4	0.0	
19M	06/02/2003	11:36	0.2	1.2	18.6	80.0	0.0	
19M	06/09/2003	11:36	0.0	0.0	20.7	79.3	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
19M	06/17/2003	09:22	0.1	0.8	20.0	79.1	0.0	
19M	06/24/2003	08:58	0.0	0.0	20.7	79.3	0.0	
20M	06/02/2003	11:38	0.0	0.0	20.6	79.4	0.0	
20M	06/09/2003	11:38	0.0	0.0	20.7	79.3	0.0	
20M	06/17/2003	08:31	0.0	0.0	20.5	79.5	0.1	
20M	06/24/2003	07:58	0.0	0.0	20.0	80.0	0.0	
21M	06/02/2003	11:40	0.0	0.0	20.5	79.5	0.0	
21M	06/09/2003	11:39	0.0	0.0	20.7	79.3	0.0	
21M	06/17/2003	08:32	0.0	0.0	20.7	79.3	0.0	
21M	06/24/2003	07:59	0.0	0.0	20.4	79.6	0.0	
22M	06/02/2003	11:41	0.0	3.0	15.6	81.4	0.0	
22M	06/09/2003	11:41	0.0	0.0	20.7	79.3	0.0	
22M	06/17/2003	08:34	0.0	0.2	20.4	79.4	0.0	
22M	06/24/2003	08:00	0.0	0.0	20.5	79.5	0.0	
23M	06/02/2003	11:42	0.0	2.0	17.5	80.5	0.0	
23M	06/09/2003	11:43	0.0	1.2	18.9	79.9	0.0	
23M	06/17/2003	08:35	0.0	0.3	20.0	79.7	0.0	
23M	06/24/2003	08:02	0.0	0.0	20.5	79.5	0.0	
24M	06/02/2003	11:43	0.0	0.5	19.5	80.0	0.0	
24M	06/09/2003	11:44	0.0	0.1	20.3	79.6	0.0	
24M	06/17/2003	08:36	0.0	0.0	20.7	79.3	0.0	
24M	06/24/2003	08:03	0.0	0.0	20.5	79.5	0.0	
25M	06/02/2003	11:44	0.0	0.6	19.3	80.1	0.0	
25M	06/09/2003	11:45	0.0	0.6	19.7	79.7	0.0	
25M	06/17/2003	08:37	0.0	0.2	20.1	79.7	0.0	
25M	06/24/2003	08:04	0.0	0.0	20.6	79.4	0.0	
26M	06/02/2003	11:45	0.0	0.2	19.8	80.0	0.0	
26M	06/09/2003	11:47	0.0	0.2	20.0	79.8	0.0	
26M	06/17/2003	08:38	0.0	0.3	20.1	79.6	0.0	
26M	06/24/2003	08:05	0.0	0.1	20.4	79.5	0.0	
27M	06/02/2003	11:46	0.0	0.0	20.5	79.5	0.0	
27M	06/09/2003	11:48	0.0	0.0	20.6	79.4	0.0	
27M	06/17/2003	08:39	0.0	0.0	20.8	79.2	0.0	
27M	06/24/2003	08:06	0.0	0.0	20.5	79.5	0.0	
28M	06/02/2003	11:47	0.0	0.7	19.7	79.6	0.0	
28M	06/09/2003	11:49	0.0	0.2	20.3	79.5	0.0	
28M	06/17/2003	08:39	0.0	0.2	20.5	79.3	0.0	
28M	06/24/2003	08:07	0.0	0.0	20.5	79.5	0.0	
29M	06/02/2003	11:48	0.0	0.5	19.5	80.0	0.0	
29M	06/09/2003	11:50	0.0	0.2	20.1	79.7	0.0	
29M	06/17/2003	08:40	0.0	0.9	19.5	79.6	0.0	
29M	06/24/2003	08:08	0.0	0.0	20.6	79.4	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
30M	06/02/2003	11:49	0.0	0.0	20.6	79.4	0.0	
30M	06/09/2003	11:51	0.0	0.0	20.7	79.3	0.0	
30M	06/17/2003	08:41	0.0	0.0	20.8	79.2	0.0	
30M	06/24/2003	08:09	0.0	0.0	20.6	79.4	0.0	
31M	06/02/2003	11:51	0.0	0.0	20.6	79.4	0.0	
31M	06/09/2003	11:52	0.0	0.0	20.7	79.3	0.0	
31M	06/17/2003	08:42	0.0	0.0	20.9	79.1	0.0	
31M	06/24/2003	08:10	0.0	0.0	20.7	79.3	0.0	
32M	06/02/2003	11:52	0.0	0.0	20.5	79.5	0.0	
32M	06/09/2003	11:53	0.0	0.0	20.6	79.4	0.0	
32M	06/17/2003	08:43	0.0	0.2	20.4	79.4	0.0	
32M	06/24/2003	08:11	0.0	0.0	20.6	79.4	0.0	
33M	06/02/2003	11:53	0.0	0.1	20.3	79.6	0.0	
33M	06/09/2003	11:54	0.0	0.0	20.6	79.4	0.0	
33M	06/17/2003	08:44	0.0	0.0	20.9	79.1	0.0	
33M	06/24/2003	08:12	0.0	0.0	20.7	79.3	0.0	
34M	06/02/2003	11:53	0.0	0.0	20.4	79.6	0.0	
34M	06/09/2003	08:42	0.0	0.0	20.6	79.4	0.0	
34M	06/17/2003	08:45	0.0	0.2	20.5	79.3	0.0	
34M	06/24/2003	08:13	0.0	0.0	20.7	79.3	0.0	
35M	06/02/2003	11:54	0.0	0.0	20.8	79.2	0.0	
35M	06/09/2003	08:43	0.0	0.0	20.9	79.1	0.0	
35M	06/17/2003	08:46	0.0	0.0	20.9	79.1	0.0	
35M	06/24/2003	08:14	0.0	0.0	20.7	79.3	0.0	
36M	06/02/2003	11:56	0.0	0.2	20.2	79.6	0.0	
36M	06/09/2003	11:57	0.0	0.0	20.7	79.3	0.0	
36M	06/17/2003	08:47	0.0	0.3	20.3	79.4	0.0	
36M	06/24/2003	08:15	0.0	0.0	20.7	79.3	0.0	
37M	06/02/2003	11:57	0.0	0.1	20.2	79.7	0.0	
37M	06/09/2003	11:58	0.0	0.0	20.8	79.2	0.0	
37M	06/17/2003	08:49	0.0	0.0	20.9	79.1	0.0	
37M	06/24/2003	08:16	0.0	0.0	20.7	79.3	0.0	
38M	06/02/2003	11:58	0.0	0.8	19.0	80.2	0.0	
38M	06/09/2003	11:59	0.0	0.0	20.8	79.2	0.0	
38M	06/17/2003	08:50	0.0	0.0	20.9	79.1	0.0	
38M	06/24/2003	08:17	0.0	0.0	20.7	79.3	0.0	
39M	06/02/2003	12:00	0.0	0.6	19.5	79.9	0.0	
39M	06/09/2003	12:00	0.0	0.1	20.5	79.4	0.0	
39M	06/17/2003	08:51	0.0	0.2	20.6	79.2	0.0	
39M	06/24/2003	08:18	0.0	0.0	20.6	79.4	0.0	
40M	06/02/2003	12:01	0.0	0.1	20.1	79.8	0.0	
40M	06/09/2003	12:01	0.0	0.2	20.4	79.4	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
40M	06/17/2003	08:52	0.0	0.0	20.9	79.1	0.0	
40M	06/24/2003	08:19	0.0	0.1	20.5	79.4	0.0	
41M	06/02/2003	12:02	0.0	0.3	19.7	80.0	0.0	
41M	06/09/2003	12:02	0.0	0.0	20.7	79.3	0.0	
41M	06/17/2003	08:52	0.0	0.0	20.9	79.1	0.0	
41M	06/24/2003	08:20	0.0	0.0	20.7	79.3	0.0	
42M	06/02/2003	12:03	0.0	0.5	19.5	80.0	0.0	
42M	06/09/2003	12:03	0.0	0.0	20.8	79.2	0.0	
42M	06/17/2003	08:53	0.0	0.0	20.8	79.2	0.0	
42M	06/24/2003	08:22	0.0	0.0	20.7	79.3	0.0	
43M	06/02/2003	12:04	0.0	0.9	19.0	80.1	0.0	
43M	06/09/2003	12:04	0.0	0.5	20.0	79.5	0.0	
43M	06/17/2003	08:55	0.0	0.2	20.4	79.4	0.0	
43M	06/24/2003	08:23	0.0	0.0	20.7	79.3	0.0	
44M	06/02/2003	12:05	0.0	1.7	18.1	80.2	0.0	
44M	06/09/2003	12:05	0.0	0.0	20.7	79.3	0.0	
44M	06/17/2003	08:56	0.0	0.0	20.9	79.1	0.0	
44M	06/24/2003	08:24	0.0	0.0	20.7	79.3	0.0	
45M	06/02/2003	12:06	0.0	0.0	20.5	79.5	0.0	
45M	06/09/2003	12:07	0.0	0.5	20.0	79.5	0.0	
45M	06/17/2003	08:57	0.0	0.8	20.0	79.2	0.0	
45M	06/24/2003	08:25	0.0	2.6	17.7	79.7	0.0	
46M	06/02/2003	12:07	0.0	0.7	18.9	80.4	0.0	
46M	06/09/2003	12:08	0.0	0.0	20.6	79.4	0.0	
46M	06/17/2003	08:58	0.0	0.0	20.6	79.4	0.0	
46M	06/24/2003	08:26	0.0	0.0	20.4	79.6	0.0	
47M	06/02/2003	12:08	0.0	0.0	20.3	79.7	0.0	
47M	06/09/2003	12:09	0.0	0.0	20.8	79.2	0.0	
47M	06/17/2003	08:59	0.0	0.0	20.9	79.1	0.0	
47M	06/24/2003	08:27	0.0	0.0	20.6	79.4	0.0	
48M	06/02/2003	12:09	0.0	0.6	19.2	80.2	0.0	
48M	06/09/2003	12:10	0.0	0.3	20.1	79.6	0.0	
48M	06/17/2003	08:59	0.0	0.5	20.2	79.3	0.0	
48M	06/24/2003	08:28	0.0	0.7	19.9	79.4	0.0	
49M	06/02/2003	12:10	0.0	2.3	17.6	80.1	0.0	
49M	06/09/2003	12:11	0.0	2.8	18.0	79.2	0.0	
49M	06/17/2003	09:01	0.0	1.5	18.9	79.6	0.0	
49M	06/24/2003	08:30	0.0	3.0	17.9	79.1	0.0	
50M	06/02/2003	12:11	0.0	0.0	20.5	79.5	0.0	
50M	06/09/2003	12:12	0.0	0.0	20.6	79.4	0.0	
50M	06/17/2003	09:01	0.0	0.0	20.7	79.3	0.0	
50M	06/24/2003	08:31	0.0	0.3	20.0	79.7	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
51M	06/02/2003	12:13	0.0	0.8	18.5	80.7	0.0	
51M	06/09/2003	12:14	0.0	1.5	18.8	79.7	0.0	
51M	06/17/2003	09:03	0.0	1.0	19.5	79.5	0.0	
51M	06/24/2003	08:33	0.0	0.9	19.3	79.8	0.0	
52M	06/02/2003	12:14	0.0	0.2	19.9	79.9	0.0	
52M	06/09/2003	12:15	0.0	0.5	20.0	79.5	0.0	
52M	06/17/2003	09:04	0.0	0.3	20.3	79.4	0.0	
52M	06/24/2003	08:33	0.0	0.3	20.0	79.7	0.0	
53M	06/02/2003	12:17	0.0	0.2	19.9	79.9	0.0	
53M	06/09/2003	12:17	0.0	0.3	20.2	79.5	0.0	
53M	06/17/2003	09:05	0.0	0.5	20.4	79.1	0.1	
53M	06/24/2003	08:35	0.0	0.3	20.2	79.5	0.0	
54M	06/02/2003	12:18	0.0	1.8	17.5	80.7	0.0	
54M	06/09/2003	12:18	0.0	0.0	20.7	79.3	0.0	
54M	06/17/2003	09:07	0.0	0.0	20.9	79.1	0.0	
54M	06/24/2003	08:37	0.0	0.0	20.6	79.4	0.0	
55M	06/02/2003	12:20	0.0	1.1	18.6	80.3	0.0	
55M	06/09/2003	12:20	0.0	0.0	20.8	79.2	0.0	
55M	06/17/2003	09:08	0.0	0.8	20.0	79.2	0.0	
55M	06/24/2003	08:39	0.0	0.0	20.7	79.3	0.0	
56M	06/02/2003	12:21	0.0	0.0	20.5	79.5	0.0	
56M	06/09/2003	12:21	0.0	0.0	20.8	79.2	0.0	
56M	06/17/2003	09:09	0.0	0.0	20.9	79.1	0.0	
56M	06/24/2003	08:40	0.0	0.0	20.7	79.3	0.1	
57M	06/02/2003	12:23	0.0	0.6	19.5	79.9	0.0	
57M	06/09/2003	12:23	0.0	0.0	20.8	79.2	0.0	
57M	06/17/2003	09:11	0.0	0.1	20.6	79.3	0.0	
57M	06/24/2003	08:42	0.0	0.0	20.7	79.3	0.0	
58M	06/02/2003	12:24	0.0	0.9	19.0	80.1	0.0	
58M	06/09/2003	12:24	0.0	0.0	20.8	79.2	0.0	
58M	06/17/2003	09:12	0.0	0.0	20.9	79.1	0.0	
58M	06/24/2003	08:43	0.0	0.0	20.7	79.3	0.0	
59M	06/02/2003	12:26	0.0	0.2	19.7	80.1	0.0	
59M	06/09/2003	12:26	0.0	0.0	20.8	79.2	0.0	
59M	06/17/2003	09:14	0.0	0.2	20.5	79.3	0.0	
59M	06/24/2003	08:46	0.0	0.0	20.6	79.4	0.0	
60M	06/02/2003	12:27	0.0	0.6	19.5	79.9	0.0	
60M	06/09/2003	12:27	0.0	0.2	20.1	79.7	0.0	
60M	06/17/2003	09:15	0.0	0.8	20.0	79.2	0.0	
60M	06/24/2003	08:47	0.0	0.0	20.6	79.4	0.0	
61M	06/02/2003	12:30	0.0	0.8	19.1	80.1	0.0	
61M	06/09/2003	12:29	0.0	0.8	19.9	79.3	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
61M	06/17/2003	09:17	0.0	0.7	20.0	79.3	0.0	
61M	06/24/2003	08:49	0.0	0.9	19.6	79.5	0.0	
62M	06/02/2003	12:31	0.0	3.0	15.5	81.5	0.0	
62M	06/09/2003	12:30	0.0	2.8	16.7	80.5	0.0	
62M	06/17/2003	09:18	0.0	2.6	16.5	80.9	0.0	
62M	06/24/2003	08:50	0.0	2.7	16.4	80.9	0.0	
63M	06/02/2003	12:33	0.0	1.0	18.5	80.5	0.0	
63M	06/09/2003	12:34	0.0	1.5	18.6	79.9	0.0	
63M	06/17/2003	09:20	0.0	1.1	19.0	79.9	0.0	
63M	06/24/2003	08:52	0.0	0.8	19.1	80.1	0.0	
64M	06/02/2003	12:35	0.0	1.3	19.0	79.7	0.0	
64M	06/09/2003	12:36	0.0	0.0	20.7	79.3	0.0	
64M	06/17/2003	09:22	0.0	0.0	20.8	79.2	0.0	
64M	06/24/2003	08:54	0.0	0.0	20.5	79.5	0.0	
65M	06/02/2003	12:37	0.0	0.0	20.1	79.9	0.0	
65M	06/09/2003	12:38	0.0	0.0	20.7	79.3	0.0	
65M	06/17/2003	09:47	0.0	0.0	20.9	79.1	0.0	
65M	06/24/2003	09:05	0.0	0.0	20.4	79.6	0.0	
66M	06/02/2003	12:38	0.0	0.0	20.1	79.9	0.0	
66M	06/09/2003	12:40	0.0	0.1	20.5	79.4	0.0	
66M	06/17/2003	09:51	0.0	0.1	20.7	79.2	0.0	
66M	06/24/2003	09:01	0.0	0.3	20.4	79.3	0.0	
67M	06/02/2003	12:41	0.0	0.0	20.1	79.9	0.0	
67M	06/09/2003	12:42	0.0	0.0	20.7	79.3	0.0	
67M	06/17/2003	09:50	0.1	0.2	20.8	78.9	0.0	
67M	06/24/2003	09:09	0.0	0.0	20.5	79.5	0.0	
68M	06/02/2003	12:42	0.0	0.2	20.0	79.8	0.0	
68M	06/09/2003	12:44	0.0	0.0	20.7	79.3	0.0	
68M	06/17/2003	09:54	0.0	0.0	20.8	79.2	0.0	
68M	06/24/2003	09:04	0.0	0.0	20.7	79.3	0.0	
69M	06/02/2003	12:44	0.0	0.1	19.9	80.0	0.0	
69M	06/09/2003	12:46	0.0	0.1	20.4	79.5	0.0	
69M	06/17/2003	09:52	0.0	0.3	20.7	79.0	0.0	
69M	06/24/2003	07:50	0.0	0.1	20.7	79.2	0.0	
70M	06/02/2003	10:34	0.0	0.7	19.4	79.9	0.0	
70M	06/09/2003	10:35	0.0	0.2	20.1	79.7	0.0	
70M	06/17/2003	08:27	0.0	0.4	20.4	79.2	0.0	
70M	06/24/2003	07:52	.0	0.3	20.4	.0	0.0	
71M	06/02/2003	10:36	0.0	0.0	20.4	79.6	0.0	
71M	06/09/2003	10:38	0.0	0.0	20.4	79.6	0.0	
71M	06/17/2003	08:30	0.0	0.1	20.9	79.0	0.0	
71M	06/24/2003	07:54	0.0	0.0	20.7	79.3	0.0	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
72M	06/02/2003	10:38	0.0	0.1	20.2	79.7	0.0	
72M	06/09/2003	10:41	0.0	0.0	20.4	79.6	0.0	
72M	06/17/2003	08:32	0.0	0.3	20.2	79.5	0.0	
72M	06/24/2003	07:56	0.0	0.2	20.4	79.4	0.0	
73M	06/02/2003	10:40	0.0	0.0	20.5	79.5	0.0	
73M	06/09/2003	10:42	0.0	0.0	20.5	79.5	0.0	
73M	06/17/2003	08:34	0.1	0.0	20.9	79.0	0.0	
73M	06/24/2003	07:58	0.0	0.0	20.8	79.2	0.0	
74M	06/02/2003	10:42	0.0	0.0	20.5	79.5	0.0	
74M	06/09/2003	10:45	0.0	0.1	20.5	79.4	0.0	
74M	06/17/2003	08:36	0.0	0.2	20.8	79.0	0.0	
74M	06/24/2003	08:00	0.0	0.2	20.7	79.1	0.0	
75M	06/02/2003	10:45	0.0	0.0	20.4	79.6	0.0	
75M	06/09/2003	10:48	0.0	0.0	20.6	79.4	0.0	
75M	06/17/2003	08:39	0.0	0.1	20.9	79.0	0.0	
75M	06/24/2003	08:02	0.0	0.1	20.6	79.3	0.0	
76M	06/02/2003	10:48	0.0	0.0	20.5	79.5	0.0	
76M	06/09/2003	10:51	0.0	0.0	20.6	79.4	0.0	
76M	06/17/2003	08:41	0.0	0.0	20.9	79.1	0.0	
76M	06/24/2003	08:04	0.0	0.0	20.7	79.3	0.0	
77M	06/02/2003	10:52	0.0	0.0	20.6	79.4	0.0	
77M	06/09/2003	10:53	0.0	0.0	20.6	79.4	0.0	
77M	06/17/2003	08:44	0.0	0.0	20.9	79.1	0.0	
77M	06/24/2003	08:07	0.0	0.0	20.8	79.2	0.0	
78M	06/02/2003	10:54	0.0	0.2	20.0	79.8	0.0	
78M	06/09/2003	10:58	0.0	0.0	20.5	79.5	0.0	
78M	06/17/2003	08:46	0.0	0.8	19.9	79.3	0.0	
78M	06/24/2003	08:09	0.0	0.3	20.5	79.2	0.0	
79M	06/02/2003	10:56	0.0	2.6	17.0	80.4	0.0	
79M	06/09/2003	10:59	0.0	1.8	18.2	80.0	0.0	
79M	06/17/2003	08:48	0.1	4.1	16.7	79.1	0.0	
79M	06/24/2003	08:11	0.0	2.3	17.7	80.0	0.0	
80M	06/02/2003	10:59	0.0	0.6	19.8	79.6	0.0	
80M	06/09/2003	11:02	0.0	0.0	20.5	79.5	0.0	
80M	06/17/2003	08:51	0.0	0.1	20.7	79.2	0.0	
80M	06/24/2003	08:14	0.0	0.0	20.7	79.3	0.0	
81M	06/02/2003	11:01	0.0	0.0	20.6	79.4	0.0	
81M	06/09/2003	11:04	0.0	0.1	20.5	79.4	0.0	
81M	06/17/2003	08:53	0.0	0.2	20.8	79.0	0.0	
81M	06/24/2003	08:15	0.0	0.1	20.7	79.2	0.0	
FLARE	06/02/2003	10:10	20.5	23.9	4.1	51.5	7.8	
FLARE	06/09/2003	10:14	19.9	23.3	4.2	52.6	8.7	

Hewitt Pit Probe Data - 06/01/2003 to 06/30/2003

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
FLARE	06/17/2003	08:04	21.2	24.0	4.5	50.3	8.3	
FLARE	06/24/2003	07:29	16.9	24.2	4.0	54.9	8.5	

Attachment 2

INTEGRATED LANDFILL

SURFACE SAMPLING

Grids 1-34 and 52 – June 12, 2003
Grids 35-51 – June 16, 2003

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RES Environmental Inc.

OVA CALIBRATION LOG

Hewitt Pit Landfill

6/12/03 OVA

MAKE Fox Bow

SERIAL #

MODEL #

Operator	Date	Battery Check	Flow Meter Reading	Pressure At Suction W.C.	Zero Reading 10 PPM	Zero Reading 100 PPM	Zero Reading 1000 PPM	Cal Calibration Gas, Unconverted Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	Cal Calibration Gas Converted Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	3 Ft. Calibration Check PPM	PPM	PPM	Initial Instr. OK & Appr.	Comments Features
C. Markley	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	OM	50504
M Georgei	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	MG	A42057
P. Ponce	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	PP	A4145
R Johns	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	RJ	A42157
K Benkowski	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	KB	51087
M Hernandez	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	MH	A4166
A Chandler	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500					500	500	—	—	500	AC	41760

RES Environmental Inc.

OVA CALIBRATION LOG

Hewitt Pit 6/12/03 ISS

MAKE Fox Bro

SERIAL #

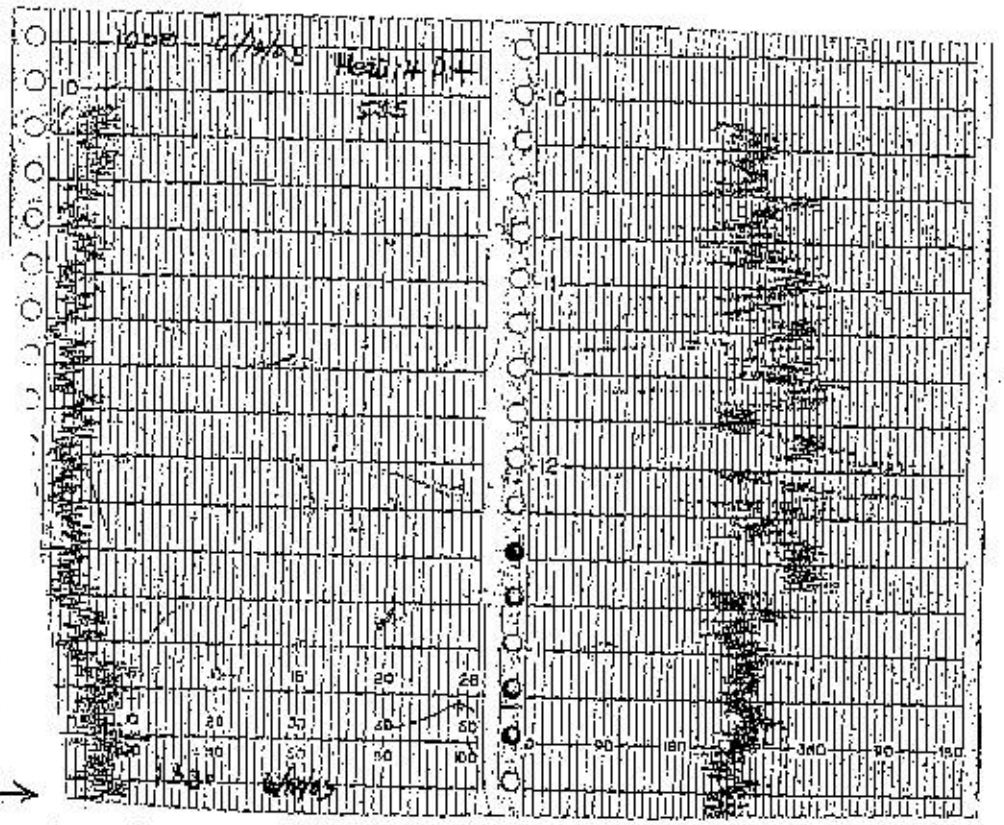
MODEL #

Operator	Date	Battery Check	Flow Meter Reading	Pressure At Suction W.C.	Zero Reading 10 PPM	Zero Reading 100 PPM	Zero Reading 1000 PPM	CH4 Calibration Gas, Uncorrected Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	CH4 Calibration Gas Corrected Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	3 Ft. Calibration Check PPM	PPM	PPM	Initial Instr. Off & Appr.	Compressor Pressure
C. Markley	6/12/03	OK	1.5	—	—	—	—	—		50	50	—	—	—	—	50	50	—	—	—	50	—	[illegible]	504503
C. Markley	6/16/03	OK	1.5	—	—	—	—	—		50	50	—	—	—	—	50	50	—	—	—	50	—	[illegible]	504503

WIND SPEED

WIND DIRECTION

10:00 AM →



2:00 PM →

0 5 MPH

Attachment 3

INTEGRATED LANDFILL SURFACE SAMPLING LABORATORY RESULTS

JUNE 16, 2003

GRIDS 22 AND 23

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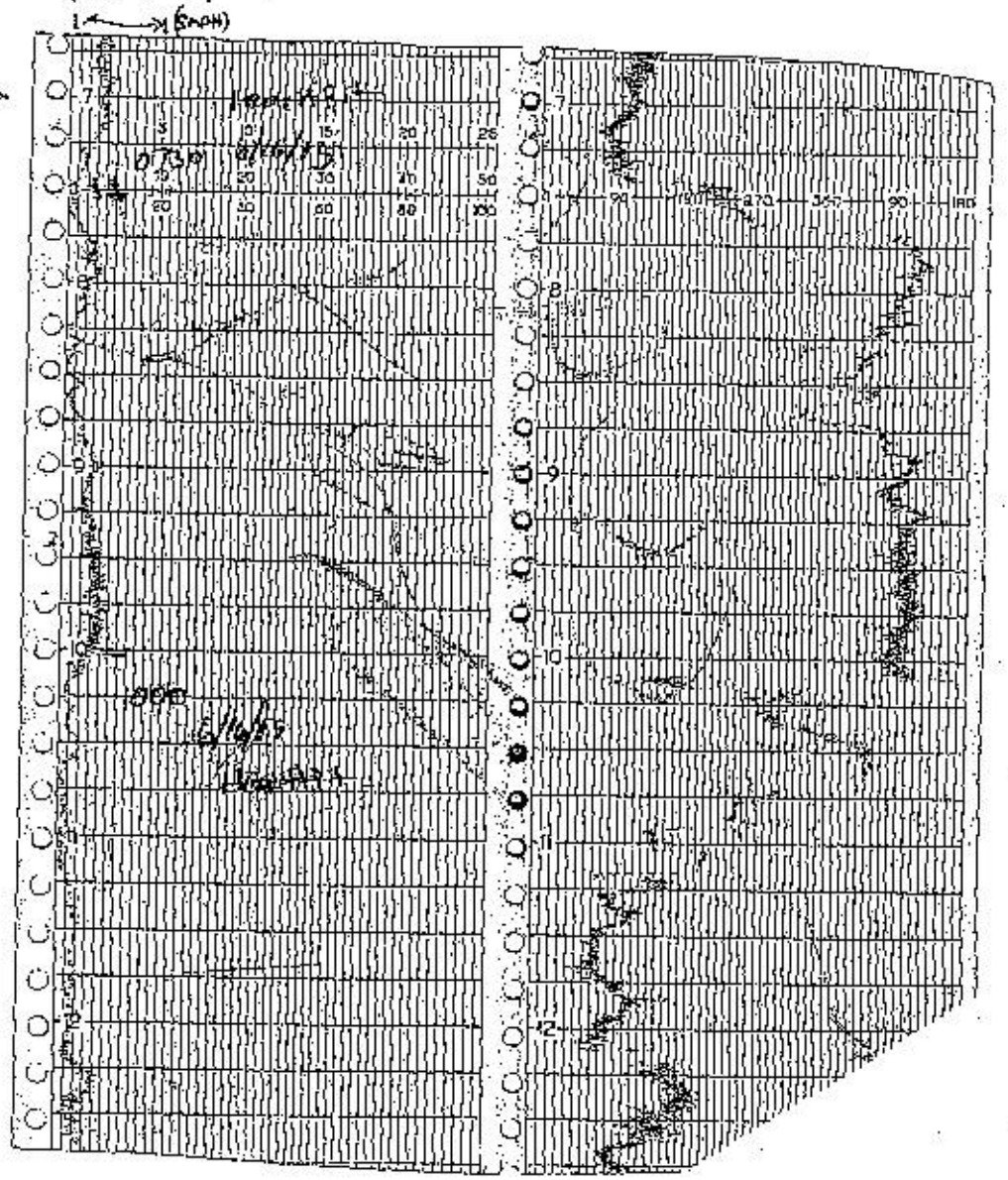
WIND SPEED

WIND DIRECTION

7:00 AM →

12:00 PM →



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES FROM	DEGREES CENTER	DEGREES TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

HEWITT PIT

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Mike Greene, Paul Ponce, Aaron Chandler, Mike Hernandez, Robert Johns, Kenneth Olander

Date: 6/12/03 Instrument used:

Temperature:

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Roto-mtr, cc/min	Wind spd, mph/direct		Remarks
34	CM	1000	1025	5	1333	5	12	
33	MG	1000	1025	5		5	12	
32	PP	1000	1025	5		5	12	
31	AC	1000	1025	5		5	12	
30	MH	1000	1025	5		5	12	
29	RJ	1000	1025	5		5	12	
28	KB	1000	1025	5		5	12	
27	CM	1030	1055	5		3	13	
26	MG	1030	1055	5		3	13	
25	PP	1030	1055	5		3	13	
24	AC	1030	1055	5		3	13	
23	MH	1030	1055	5		3	13	
22	RJ	1030	1055	5		3	13	
52	K Blander	1030	1055	5		3	13	
1	CM	1200	1225	5		3	14	
2	MG	1200	1225	5		3	14	
3	PP	1200	1225	5		3	14	
4	AC	1200	1225	5		3	14	
5	MH	1200	1225	5	✓	3	14	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

HEWITT PIT

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Aaron Chandler, Kenneth Blanton, Mike George, Mike Hernandez, Paul Ponce, Robert Johns

Date: 6/12/03 Instrument used:

Temperature:

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Roto-mtr, cc/min	Wind spd, mph	Wind direct	Remarks
6	RJ	1200	1225	5	1333	3	14	
7	KM	1200	1225	5		3	14	
8	CM	1230	1255	5		3	12	
9	MG	1230	1255	5		3	12	
10	PP	1230	1255	5		3	12	
11	AC	1230	1255	5		3	12	
12	MH	1230	1255	5		3	12	
13	RJ	1230	1255	5		3	12	
14	KB	1230	1255	5		3	12	
15	CM	1300	1325	5		4	12	
16	MG	1300	1325	5		4	12	
17	PP	1300	1325	5		4	12	
18	AC	1300	1325	5		4	12	
19	MH	1300	1325	5		4	12	
20	RJ	1300	1325	5		4	12	
21	KB.	1300	1325	5	✓	4	12	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

HEWITT PIT

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Mike George, Paul Ponce, Aaron Chandler

Date: 6/16/03 Instrument used: Packs. 1-9

Temperature: 65° OVERCAST

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Roto-mtr, cc/min	Wind spd, mph	Wind direct	Remarks
35	CM	0730	0755	5	333	2	5	
36	MG	0730	0755	5		2	5	
37	PP	0730	0755	5		2	5	
38	AC	0730	0755	5		2	5	
39	CM	0800	0825	5		1	3	
40	MG	0800	0825	5		1	3	
41	PP	0800	0825	5		1	3	
42	AC	0800	0825	5		1	3	
43	CM	0830	0855	5		2	4	
44	MG	0830	0855	5		2	4	
45	PP	0830	0855	5		2	4	
46	AC	0830	0855	5		2	4	
47	CM	0900	0925	5		3	5	
48	MG	0900	0925	5		3	5	
49	PP	0900	0925	5		3	5	
50	AC	0900	0925	5		3	5	
51	MG	0930	0955	5		4	5	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

July 3, 2003 LTR/345/03

Brian Millage
GC Environmental
1230 N. Jefferson, Ste. J
Anaheim, CA 92807

re: Hewitt Pit

Dear Brian:

Please find enclosed the laboratory analysis reports, quality assurance summaries, and the original chain of custody form for three Tedlar bag samples received on June 17, 2003.

The Tedlar bag samples were analyzed for SCAQMD 1150.1 components, methane, and total gaseous non-methane organics (TGNMO) as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Michael L. Porter
Laboratory Director

Encl.
MLP/bwf

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples

Report Date: July 3, 2003
Client: GC Environmental
Project Location: Hewitt Pit Landfill
Date Received: June 17, 2003
Date Analyzed: June 17-19, 2003

AtmAA Lab No.:	01683-10	01683-11
Sample I.D.:	ISS Grid 22	ISS Grid 23
Components	*(Concentration in ppmv)*	
Methane	2.78	2.07
TGNMO	1.00	1.94
	(Concentration in ppbv)	
Hydrogen sulfide	<50	<50
Benzene	0.97	0.52
Benzylchloride	<0.5	<0.5
Chlorobenzene	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1
Dichloromethane	0.16	0.11
1,2-dibromoethane	<0.1	<0.1
Perchloroethene	<0.1	<0.1
Carbon tetrachloride	0.11	0.11
Toluene	5.94	2.70
1,1,1-trichloroethane	<0.1	<0.1
Trichloroethene	0.10	0.19
Chloroform	<0.1	<0.1
Vinyl chloride	<0.1	<0.1
m + p-xylenes	3.39	1.79
o-xylene	0.60	0.33

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Hewitt Pit Landfill
Date Received: June 17, 2003
Date Analyzed: June 17-19, 2003

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Grid 22	2.81	2.74	2.78	1.3
TGNMO	Grid 22	1.00	1.00	1.00	0.0
		(Concentration in ppbv)			
Hydrogen sulfide	Grid 22	<50	<50	---	---
Benzene	Grid 22	0.96	0.98	0.97	1.0
Benzylchloride	Grid 22	<0.5	<0.5	---	---
Chlorobenzene	Grid 22	<0.1	<0.1	---	---
Dichlorobenzenes	Grid 22	<1.1	<1.1	---	---
1,1-dichloroethane	Grid 22	<0.1	<0.1	---	---
1,2-dichloroethane	Grid 22	<0.1	<0.1	---	---
1,1-dichloroethylene	Grid 22	<0.1	<0.1	---	---
Dichloromethane	Grid 22	0.16	0.16	0.16	0.0
1,2-dibromoethane	Grid 22	<0.1	<0.1	---	---
Perchloroethene	Grid 22	<0.1	<0.1	---	---
Carbon tetrachloride	Grid 22	0.11	0.11	0.11	0.0
Toluene	Grid 22	6.17	5.72	5.94	3.8
1,1,1-trichloroethane	Grid 22	<0.1	<0.1	---	---
Trichloroethene	Grid 22	0.10	0.10	0.10	0.0
Chloroform	Grid 22	<0.1	<0.1	---	---
Vinyl chloride	Grid 22	<0.1	<0.1	---	---
m+p-xylenes	Grid 22	3.60	3.18	3.39	6.2
o-xylene	Grid 22	0.65	0.56	0.60	7.4

Two Tedlar bag samples, laboratory numbers 01683-(10 & 11), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 9 repeat measurements from the two Tedlar bag samples is 2.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES
Hewitt Pit Landfill	7361 Laurel Canyon Blvd.	
Project No. —	Field Logbook No. —	
Sampler: (Print) Craig Markley	(Signature)	No. Of Containers 2

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	1150.1 Tor 1:55	Methane	TUMH	TAC		Remarks
Grid 22	6-16-03	0700-0725	0168310	10 L Bag	X	X	X	X		
Grid 23	6-16-03	0700-0725	-11	10 L Bag	X	X	X	X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/16/03		[signature]	6-17-03	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
Sample Disposal Method:	Disposed of by: (Signature)			Date	Time

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

ATMAA Lab Inc

RES Environmental Inc.

LOCATION: Hewitt Pit Landfill

INTEGRATED SURFACE SAMPLING SHEET

GRID # 22

SAMPLE # -

CLASS # -

BAG # -

SAMPLER # 4

TEMPERATURE

RELATIVE HUMIDITY:

BAROMETRIC PRESSURE:

TECHNICIAN: (Signature)

DATE: 6-16-03

FLOW START: .333 cc

FLOW STOP: .333 cc

TIME START: 0700

TIME STOP: 0725

BAG STATUS:
(✓) FULL ( ) 3/4
( ) 1/2 ( ) 1/4

WIND SPEED mph

WIND DIRECTION 16 pt

The TECHNICIAN SHOULD BE INSPECTING FOR THE FOLLOWING:
1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
6. RODENT BURROWS; 7. COVER SOIL EROSIONS.

COMMENTS:

865 Via Lata • Colton, California 92324 • (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

LOCATION: Hewitt Pit Landfill

INTEGRATED SURFACE SAMPLING SHEET

GRID # 23

SAMPLE # -

CLASS # -

BAG # -

SAMPLER # 6

TEMPERATURE

RELATIVE HUMIDITY:

BAROMETRIC PRESSURE:

DATE: 6-16-03

FLOW START: 1333 cc

FLOW STOP: 1333 cc

TIME START: 0700

TIME STOP: 0725

BAG STATUS:
(✓) FULL ( ) 3/4
( ) 1/2 ( ) 1/4

WIND SPEED mph

WIND DIRECTION 16 pt

TECHNICIAN: (Signature)

The TECHNICIAN SHOULD BE INSPECTING FOR THE FOLLOWING:
1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
6. RODENT BURROWS; 7. COVER SOIL EROSIONS.

COMMENTS:

865 Via Lata • Colton, California 92324 • (909) 422-1001 Fax (909) 422-0707

Attachment 4

INSTANTANEOUS LANDFILL SURFACE MONITORING

June 12, 2003

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RES Environmental Inc.

OVA CALIBRATION LOG

Hewitt Pit Landfill

6/12/03 DOA

MAKE Fox Bar

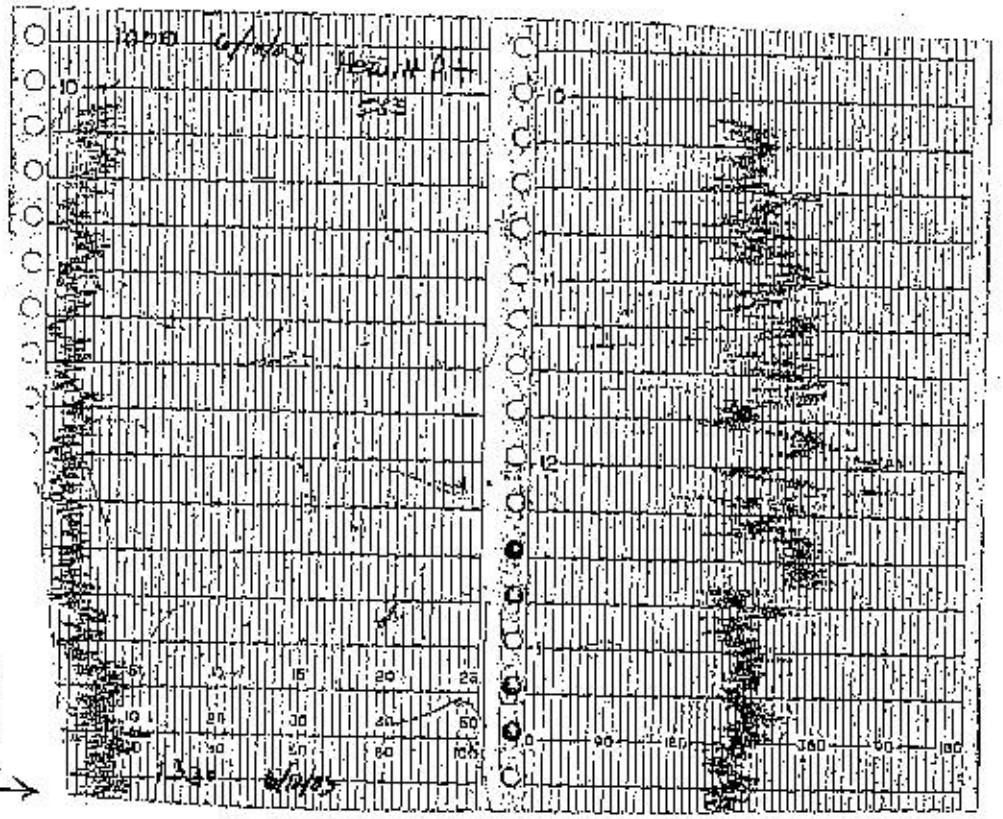
SERIAL #

MODEL #

Operator	Date	Battery Check	Flow Meter Reading	Pressure At Bottom W.C.	Zero Reading 10 PPM	Zero Reading 100 PPM	Zero Reading 1000 PPM	Cal Calibration Gas, Unconnected Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	Cal Calibration Gas Connected Readings Low PPM	Low ACT	Med. PPM	Med. ACT	High PPM	High ACT	3 Pt. Calibration Check PPM	PPM	PPM	Initial Instr. OK & Appr.	Comments Problems
C. Markley	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	CM	50803
M Gonzalez	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	MG	A42057
P. Ponce	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	PP	A41415
R Johns	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	RJ	A42157
K Bonbach	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	KB	51087
M Hernandez	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500	—	—	—	—	500	500	—	—	500	MH	A4166
A Chandler	6/12/03	OK	1.5	—	—	—	—	—	—	—	—	500	500					500	500	—	—	500	AC	41700

WIND SPEED WIND DIRECTION

10:00 AM →



2:00 PM →

0 5 MPH

HEWITT PIT

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Mike Cangi, Paul Pence, Aaron Chandler, Mike Hernandez, Kenneth Balmeford, Robert Johns

Date: 6/2/03 Instrument used: OVA 128

Temperature:

Wind Direction: Ave. Wind Speed (mph):

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Remarks
22	CM	0715	0730	5	
23	MG	0715	0730	1,000	Area Not To Cover.
24	PP	0715	0730	5	
25	AC	0715	0730	5	
26	MH	0715	0730	5	
27	KB	0715	0730	5	
28	RJ	0715	0730	5	
29	CM	0730	0745	5	
30	MG	0730	0745	5	
31	PP	0730	0745	5	
32	AC	0730	0745	5	
33	MH	0730	0745	5	
34	KB	0730	0745	5	
35	RJ	0730	0745	5	
36.	CM	0745	0800	5	
52	MG	0745	0800	5	
37	PP	0745	0800	5	
21	AC	0745	0800	5	
20	MH	0745	0800	5	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

HEWITT PIT

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Mike Grange, Paul Ponce, Aaron Chandler, Mike Hernandez, Kenneth Bolocko, Robert Johns

Date: 6/12/03 Instrument used:

Temperature:

Wind Direction: Ave. Wind Speed (mph):

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Remarks
19	KB	0745	0800	5	
18	RS	0745	0800	5	
17	CM	0800	0815	5	
16	MG	0800	0815	5	
15	PP	0800	0815	5	
14	AC	0800	0815	5	
13	MH	0800	0815	5	
12	KB	0800	0815	5	
11	RS	0800	0815	5	
10	CM	0815	0830	5	
9	MG	0815	0830	5	
8	PP	0815	0830	5	
7	AC	0815	0830	5	
6	MH	0815	0830	5	
5	KB	0815	0830	5	
4	CM	0815	0830	5	
3	CM	0830	0845	5	
2	MG	0830	0845	5	
1	PP	0830	0845	5	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

HEWITT PIT

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Aaron Chandler, Robert Johns, Mike George, Mike Hernandez, Paul Ponce, Kenneth Bebeld.

Date: 6/12/03 Instrument used:

Temperature:

Wind Direction: Ave. Wind Speed (mph):

Grid ID	Staff Initials	Time Start	Time Stop	TOC ppm	Remarks
38	AC	0830	0845	5	
39	MH	0830	0845	5	
40	KB	0830	0845	5	
41	RJ	0830	0845	5	
42	CM	0845	0900	5	
43	MG	0845	0900	5	
44	PP	0845	0900	5	
45	AC	0845	0900	5	
46	MH	0845	0900	5	
47	KB	0845	0900	5	
48	RJ	0845	0900	5	
49	CM	0900	0915	5	
50	MG	0900	0915	5	
51	PP	0900	0915	5	

Attach Calibration Sheet
Attach site map showing grid ID

Wp:hotspots 2000.wkst

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Hewitt Pit Monitoring Period: 6/12/03 Personnel: Craig Markley

	INITIAL MONITORING			FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc		Remedial work	Date	Toc	Remedial work	Date	Toc
23	6-12-03	1,000		TAR/Dirt.	6-12-03	10			

1. Monitoring Date
2. TOC Reading in PPM

Signature:

Attachment 5

TOXIC AIR CONTAMINANTS (TAC) LABORATORY RESULTS

Probe 39 – June 16, 2003

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AtmAA Inc.
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environmental consultants
laboratory services

July 3, 2003

LTR/345/03

Brian Millage
GC Environmental
1230 N. Jefferson, Ste. J
Anaheim, CA 92807

re: Hewitt Pit

Dear Brian:

Please find enclosed the laboratory analysis reports, quality assurance summaries, and the original chain of custody form for three Tedlar bag samples received on June 17, 2003.

The Tedlar bag samples were analyzed for SCAQMD 1150.1 components, methane, and total gaseous non-methane organics (TGNMO) as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Michael L. Porter
Laboratory Director

Encl.
MLP/bwf

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23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: July 3, 2003
Client: GC Environmental
Project Location: Hewitt Pit Landfill
Client Project No.: 1003-6
Date Received: June 17, 2003
Date Analyzed: June 17 & 18, 2003

AtmAA Lab No.:	01683-18
Sample I.D.:	Probe HP-75
Components	*(Concentration in %,v)*
Nitrogen	76.0
Oxygen	21.4
	(Concentration in ppmv)
Methane	10.4
Carbon dioxide	469
TGNMO	3.20
Hydrogen sulfide	<0.5
	(Concentration in ppbv)
Benzene	0.43
Benzylchloride	<0.5
Chlorobenzene	<0.1
Dichlorobenzenes*	<1.1
1,1-dichloroethane	<0.1
1,2-dichloroethane	<0.1
1,1-dichloroethylene	<0.1
Dichloromethane	<0.1
1,2-dibromoethane	<0.1
Perchloroethene	0.19
Carbon tetrachloride	0.11
Toluene	5.18
1,1,1-trichloroethane	<0.1
Trichloroethene	0.12
Chloroform	<0.1
Vinyl chloride	<0.1
m+p-xylenes	6.30
o-xylene	1.02

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Client Project No.: 1003-6
Date Received: June 17, 2003
Date Analyzed: June 17 & 18, 2003

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	HP-75	75.9	76.1	76.0	0.13
Oxygen	HP-75	21.4	21.5	21.4	0.23
		(Concentration in ppmv)			
Methane	HP-75	10.4	10.3	10.4	0.48
Carbon dioxide	HP-75	470	468	469	0.21
TGNMO	HP-75	3.21	3.19	3.20	0.31
Hydrogen sulfide	HP-75	<0.5	<0.5	---	---
		(Concentration in ppbv)			
Benzene	HP-75	0.44	0.42	0.43	2.3
Benzylchloride	HP-75	<0.5	<0.5	---	---
Chlorobenzene	HP-75	<0.1	<0.1	---	---
Dichlorobenzenes	HP-75	<1.1	<1.1	---	---
1,1-dichloroethane	HP-75	<0.1	<0.1	---	---
1,2-dichloroethane	HP-75	<0.1	<0.1	---	---
1,1-dichloroethylene	HP-75	<0.1	<0.1	---	---
Dichloromethane	HP-75	<0.1	<0.1	---	---
1,2-dibromoethane	HP-75	<0.1	<0.1	---	---
Perchloroethene	HP-75	0.19	0.19	0.19	0.0
Carbon tetrachloride	HP-75	0.11	0.11	0.11	0.0
Toluene	HP-75	5.16	5.19	5.18	0.29

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
1,1,1-trichloroethane	HP-75	<0.1	<0.1	---	---
Trichloroethene	HP-75	0.12	0.11	0.12	4.3
Chloroform	HP-75	<0.1	<0.1	---	---
Vinyl chloride	HP-75	<0.1	<0.1	---	---
m+p-xylenes	HP-75	6.25	6.36	6.30	0.87
o-xylene	HP-75	1.02	1.03	1.02	0.49

One Tedlar bag sample, laboratory number 01683-18, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 12 repeat measurements from the one Tedlar bag sample is 0.80%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
GC Environmental / Hewitt Pit Landfill	No. Hollywood, CA
Project No.	**Field Logbook No.**
1003-6	
Sampler: (Signature)	**Chain of Custody Tape No.**
B. Millage	

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	Permanent Gases	TGNMO	1150.1 LNF				REMARKS
HP-75	6/16/03	0750	HP-75	(GAS) 1L Tedlar Bag	X	X	X				01683-18

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
B. Millage	6/16/03	0850	[illegible]	6/16/03	8:30
Relinquished by: (Signature)	6/16/03	0900	Received by: (Signature)		
Relinquished by: (Signature)			Received for Laboratory: (Signature)		

Sample Disposal Method:	Disposed of by: (Signature)	Date	Time

SAMPLE COLLECTOR

Brian Millage (GCE)
1230 N. Jefferson St. #J
Anaheim, CA 92807
1-(714) 632-9969 (Phone)
1-(714) 632-9968 (FAX)

ANALYTICAL LABORATORY

AtmAA, Inc.
Calabasas, CA
1-(818) 223-3277 Tel.
1-(818) 223-8250 FAX.

1974-3-84

08.27.1993 16:03 FROM