Report of Progress, August 31, 2009

Pursuant to Administrative Settlement Agreement and Order on Consent for Removal Action

Docket No. V-W-08-C-897

Countywide Recycling and Disposal Facility
East Sparta, Stark County, Ohio
Respondent: Republic Services of Ohio II, LLC (Republic)

Paragraph 15.a and b Enhanced Gas Extraction and Temperature Monitoring [NOTE: THIS WORK ITEM IS SUPERSEDED BY AN ISOLATION BREAK EXCAVATION]. **COMPLETED**

The Isolation Break was completed in June 2009.

In situ temperature monitoring of the FBMP thermocouple monitors were continued throughout the month; results are presented in Attachment A-2.

Paragraph 15.c and f Capping and Stabilization**. COMPLETED**

In July 2009, the last remaining temporary cap area (area referred to as the East Plateau) was completed. Regrading of intermediate soil-covered portions of Cell 1-3 was completed in August 2009. Attachment B shows the extent of capping performed in August 2009.

Paragraph 15.e **Air Monitoring and Sampling.** **COMPLETED**

In August, air monitoring activities continued on the Tier 3 (Stage C Fixed Continuous Monitoring) program until the U.S. EPA released Countywide from further monitoring (via email dated August 10, 2009). A summary of the results is included in Attachment C-1.

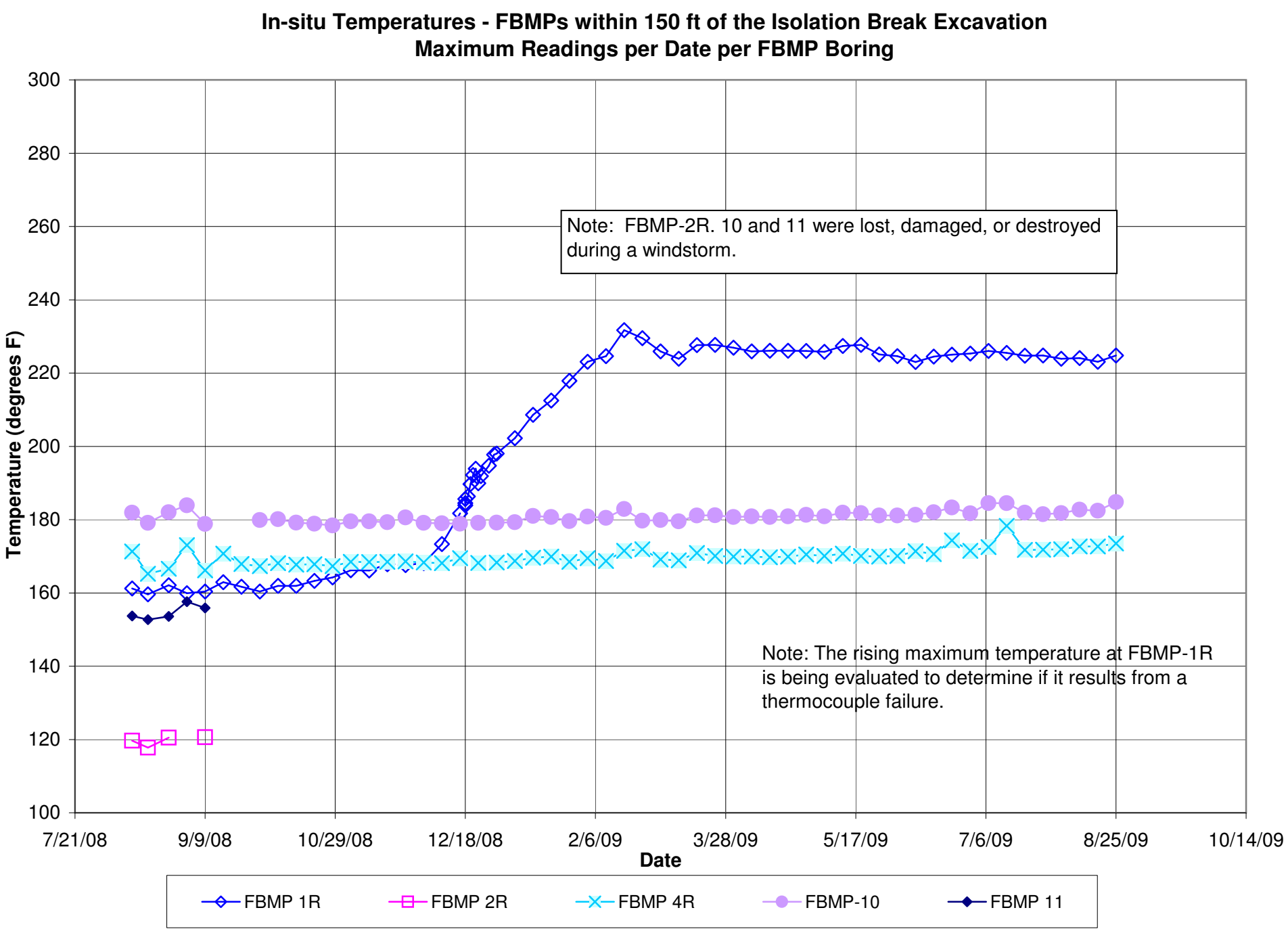
Paragraph 15.g Aerial Infrared Imaging. **COMPLETED**

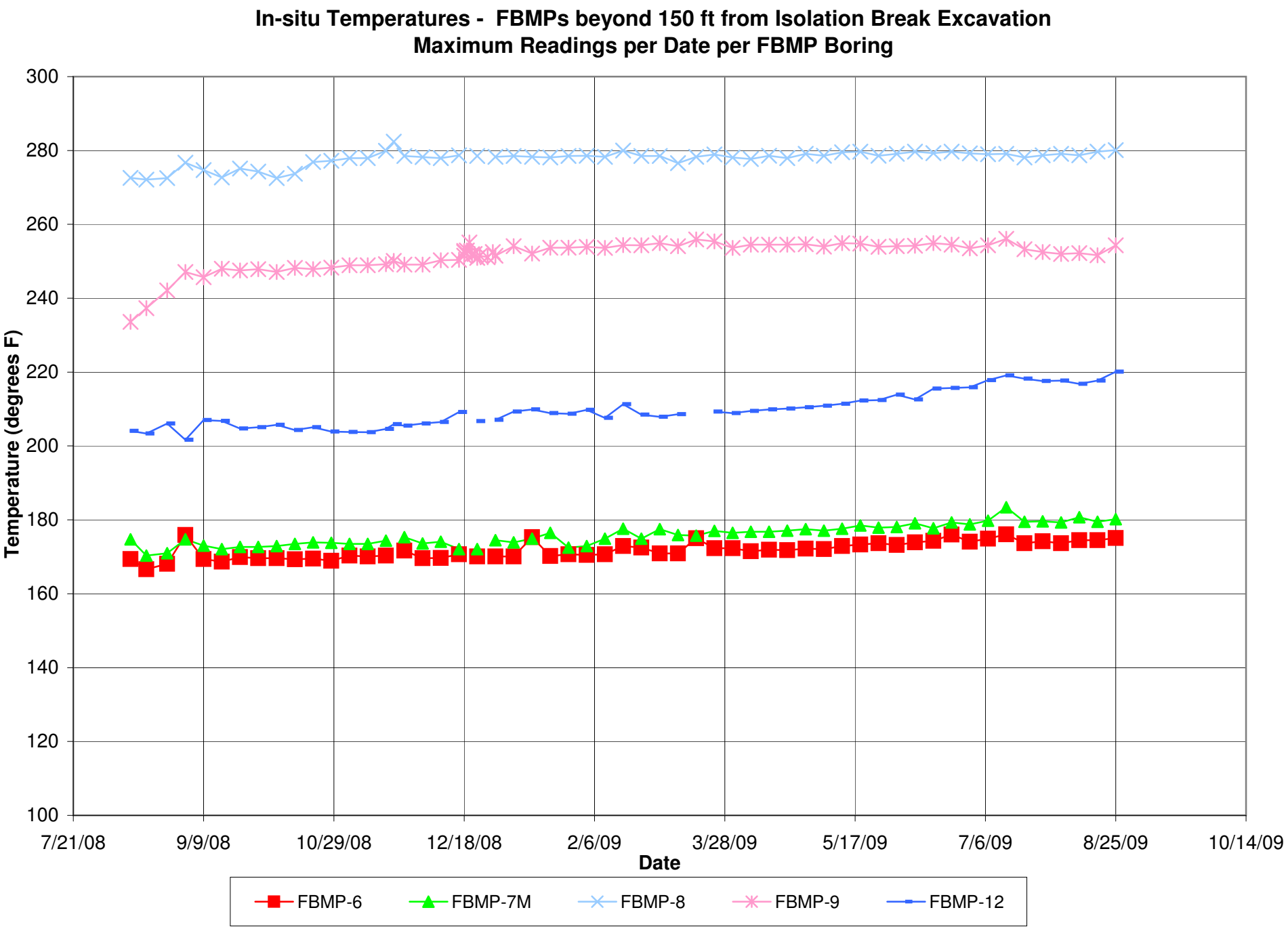
July 2009 and August 2009 aerial infrared images are provided in Attachment D along with a diagram to outline the approximate coverage of the images. Both images were taken in the pre-dawn hours. The ambient air temperature during the July 2009 image was 53° F and during the August 2009 image was 64° F. Comparison of these images generally shows the same subcap warm areas attributed to subcap leachate outbreaks and transmittal of gas through subcap cracking with no large aerial changes or trends. However, temperatures in the August image are generally 10° warmer; which may be attributable to the warmer ambient temperature in August.

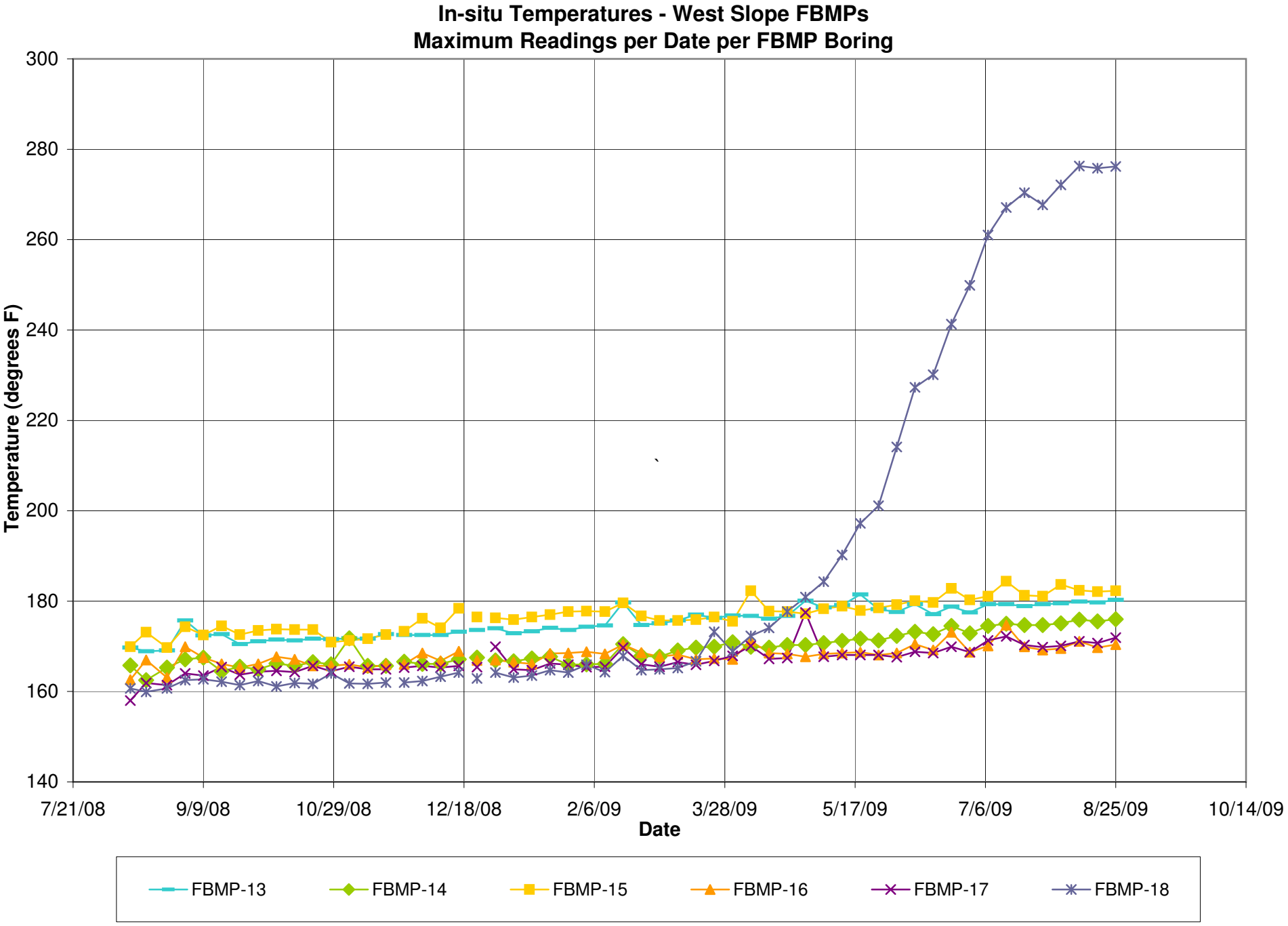
A final site walkover was conducted by Paul Ruesch of the U.S. EPA on August 19, 2009, and the remedial work was accepted as complete. Therefore, this Progress Report will be the last monthly update, and the Final Report, documenting all of the work, will be submitted on or before October 19, 2009 (first business day following 60 calendar days after completion of work).

ATTACHMENT A-2

FBMP TEMPERATURE PROBE GRAPHS


In-situ Temperatures - FBMPs within 150 ft of the Isolation Break Excavation
Maximum Readings per Date per FBMP Boring
Temperature (degrees F)
300
280
260
240
220
200
180
160
140
120
100
7/21/08
9/9/08
10/29/08
12/18/08
2/6/09
3/28/09
5/17/09
7/6/09
8/25/09
10/14/09
Date
Note: FBMP-2R. 10 and 11 were lost, damaged, or destroyed during a windstorm.
Note: The rising maximum temperature at FBMP-1R is being evaluated to determine if it results from a thermocouple failure.
FBMP 1R
FBMP 2R
FBMP 4R
FBMP-10
FBMP 11


In-situ Temperatures - FBMPs beyond 150 ft from Isolation Break Excavation
Maximum Readings per Date per FBMP Boring
Temperature (degrees F)
300
280
260
240
220
200
180
160
140
120
100
7/21/08
9/9/08
10/29/08
12/18/08
2/6/09
3/28/09
5/17/09
7/6/09
8/25/09
10/14/09
Date
FBMP-6
FBMP-7M
FBMP-8
FBMP-9
FBMP-12


In-situ Temperatures - West Slope FBMPs
Maximum Readings per Date per FBMP Boring
Temperature (degrees F)
300
280
260
240
220
200
180
160
140
7/21/08
9/9/08
10/29/08
12/18/08
2/6/09
3/28/09
5/17/09
7/6/09
8/25/09
10/14/09
Date
FBMP-13
FBMP-14
FBMP-15
FBMP-16
FBMP-17
FBMP-18

ATTACHMENT B

CAPPING AND STABILIZATION PROGRESS

E 42,000 E 42,500 E 43,000 E 43,500 E 44,000 E 44,500 E 45,000

N 25,000 N 24,500 N 24,000 N 23,500

N

0 100 200
SCALE IN FEET

EXISTING CELL 7

APPROXIMATE LIMITS OF ISOLATION BREAK EXCAVATION

PROPOSED SEDIMENTATION BASIN 1-1A (SEE NOTE 5)

FUTURE CELL 9

EXISTING ODOR CONTROL SYSTEM (SEE NOTE 4)

EXISTING CELL 5C

EXISTING CELL 5B

EXISTING CELL 4B

EXISTING CELL 4A

EXISTING CELL 1

These features all removed prior to capping

Regrading of stormwater benches completed in August 2009.

EXISTING SOLIDIFICATION PITS

EXISTING ODOR CONTROL SYSTEM BUILDING

EXISTING ODOR CONTROL SYSTEM (SEE NOTE 4)

EXISTING CELL 3

EXISTING CELL 5D

EXISTING CELL 5A

EXISTING CELL 6A

AREA OF SOUTH SLOPE SOIL BUTRESS (TOP OF BUTRESS PLACED 9/10/2008)

EXISTING ODOR CONTROL SYSTEM (SEE NOTE 4)

EXISTING CELL 2

EXISTING ACCESS ROAD

FML cap completed in July 2009.

LEGEND

- PROPERTY LINE
- EXISTING LIMIT OF SOLID WASTE
- CELL BOUNDARY
- EXISTING 2' CONTOURS
- 1130 EXISTING 10' CONTOURS
- PROPOSED TEMPORARY CAP BOUNDARY
- AS-BUILT TEMPORARY FML CAP DATED 12/18/08
- EXISTING GRAVEL ROAD
- EXISTING TEMPORARY FML CAP
- PROPOSED TEMPORARY FML CAP
- AREA WITH EXISTING INTERIM COVER (TO REMAIN UNDISTURBED)

NOTES:

1. EXISTING CONTOURS WERE COMPILED FROM DIVERSIFIED ENGINEERING, INC. TOPOGRAPHICAL SURVEY DATED 02/11/09 AND 03/03/09.
2. PROPOSED TEMPORARY CAP BOUNDARIES ARE APPROXIMATE AND WILL BE FIELD ADJUSTED AS NECESSARY.
3. THE EXISTING TEMPORARY CAP WILL BE MAINTAINED.
4. EXISTING ODOR CONTROL SYSTEM IS ATTACHED TO FENCE.
5. PROPOSED SEDIMENTATION BASIN 1-1A WAS APPROVED BY OEPA ON 08/29/08. THE SEDIMENTATION BASIN MAY BE CONSTRUCTED IN STAGES.
6. EXISTING CAP LIMITS PROVIDED BY DEI 06/29/09.

PROPOSED CAPPING AREA: 319,161 sq ft

NOTE: AREA MEASURED IN 3D.

Mapping compiled by M.A.N. Mapping Services

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
2	06/29/09	REVISED REMAINING TEMP CAP	JAW	JGW	JGW	JGW
1	05/26/09	REVISED PER US EPA 05/04/09 COMMENTS	JAW	JGW	MPB	JGW

DATE OF ISSUE 04/09/09
DRAWN BY JAW
DESIGNED BY JGW
CHECKED BY JCO
APPROVED BY JGW

CORNERSTONE Environmental Group, LLC

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REPUBLIC SERVICES OF OHIO II, LLC
COUNTYWIDE RECYCLING AND DISPOSAL FACILITY
EAST SPARTA, STARK CO., OHIO
REVISED CAPPING PLAN - CELLS 1, 2, & 3

PROPOSED / EXISTING CAPPING AREAS

SHEET NO. 1
PROJECT NO. 070187

1" 1/2" 0"

ATTACHMENT C-1

TIER 3 (STAGE C) FIXED CONTINUOUS MONITORING RESULTS

Center for Toxicology and Environmental Health, L.L.C.
5120 North Shore Drive North Little Rock, AR 72118 Phone: 501.801.8500 Fax: 501.801.8501 www.cteh.com

August 2009 Stage C Monthly Ambient Air Monitoring Report

Prepared for
Republic Services of Ohio II, LLC
3619 Gracemont Street, SW
East Sparta, OH. 44626
(330) 874-3855

Prepared by
Center for Toxicology and Environmental Health, L.L.C.
5120 North Shore Drive
North Little Rock, AR 72118

August 28, 2009

The Stage C ambient air monitoring program has continuously collected real-time Volatile Organic Compounds (VOC) and weather data 24 hours per day since October 2, 2008. Approximately 1,946,909 VOC readings have been collected at the perimeter of the landfill during this monitoring period. The stage C stations dataloggers were calibrated by J@S instruments on July 2, 2009 and placed back into service on July 3, 2009. The dataloggers were all found to be within the manufacturer's specifications.

Trigger Levels

On January 27, 2009, Center for Toxicology and Environmental Health (CTEH®), United States Environmental Protection Agency (USEPA) and Agency for Toxic Substances and Disease Registry (ATSDR) adjusted the trigger levels for the collection of SUMMA canister laboratory samples. A sustained VOC concentration at or above 0.50 ppm VOC was chosen as the trigger level for each station. Table 1.0 illustrates the trigger levels for each station.

Table 1.0
July 30, through August 10 Trigger Levels

Station	Trigger Level (ppm)
1	0.50
2	0.50
3	0.50
4	0.50
5	0.50

If a trigger level is exceeded for a five minute consecutive monitoring period, a 15 minute integrated SUMMA canister is automatically collected. Trigger levels will continue to be evaluated based on the results of the SUMMA canister data or VOC statistics.

On August 10, 2009, U.S. EPA On Scene Coordinator (OSC), Jim Augustyn informed Countywide Landfill management that continued operation of the Stage C monitors will no longer be required pursuant to the US EPA Settlement Agreement. The data acquisition from the Stage C monitoring system was terminated by Countywide on August 10, 2009.

Real-Time Results

During the July 30, 2009 through August 10, 2009 monitoring period, approximately 95,794 real-time VOC readings have been collected at the perimeter of the landfill. Of these readings, the sustained VOC concentration exceeded the established trigger levels 4 times. The mean VOC concentrations collected at the perimeter of the landfill ranged from 0.00 ppm to 0.15 ppm. Table 2.0 summarizes the real-time data collected for this monitoring period.

Table 2.0 July 30, through August 10, Real Time Data Summary

Station	Analyte	Total VOC Readings Recorded	Trigger Level	Triggering events	Average Concentration
1	VOC	16,143	0.50	0	0.00 ppm
2	VOC	18,495	0.50	0	0.05 ppm

3	VOC	17,093	0.50	1	0.77 ppm
4	VOC	27,260	0.50	1	0.25 ppm
5	VOC	16,803	0.50	2	0.40 ppm

A graphical representation of 24 hour average Real-time concentrations can be viewed in Attachment A.

SUMMA Results

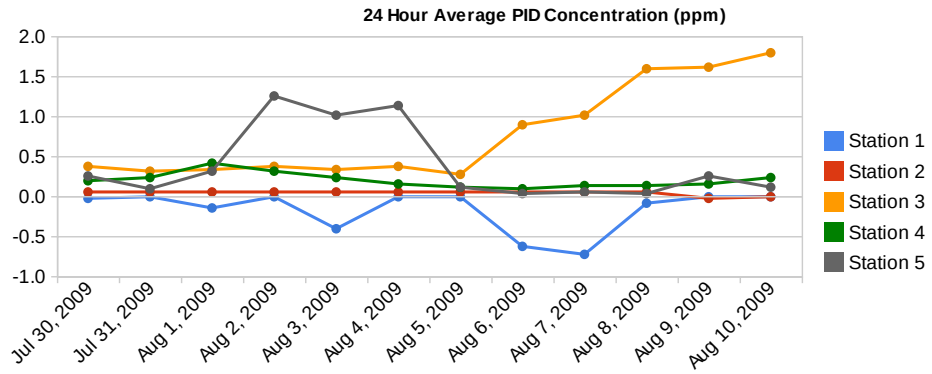
As of May 15, 2009 Tentatively Identified Compounds (TIC) analysis was discontinued. Therefore, only compounds on the TO15 target compound list will be analyzed by the laboratory. Additionally Sample preparation was modified from individually certified clean SUMMA canisters to batch certified clean canisters. Four SUMMA samples were collected during this monitoring period (Attachment B). With these laboratory results and previously available sample results, no VOCs, including benzene, were detected at levels that exceeded the ATSDR's acute or chronic Minimal Risk Levels (MRLs). These data to date indicate that landfill emissions from the site under current conditions do not pose a risk to human health in the short or long term.

Attachment A

Custom Date Report

Start Date		End Date	
2009/07/30	Calendar	2009/08/10	Calendar

Save



Day	Station 1 (PID)	Station 2 (PID)	Station 3 (PID)	Station 4 (PID)	Station 5 (PID)
2009-07-30	-0.01	0.05	0.37	0.21	0.26
2009-07-31	0.00	0.05	0.32	0.25	0.09
2009-08-01	-0.13	0.05	0.33	0.43	0.31
2009-08-02	0.00	0.05	0.38	0.32	1.27
2009-08-03	-0.41	0.05	0.33	0.23	1.03
2009-08-04	0.00	0.05	0.37	0.15	1.14
2009-08-05	0.00	0.05	0.27	0.12	0.12
2009-08-06	-0.61	0.05	0.91	0.09	0.04
2009-08-07	-0.72	0.05	1.02	0.14	0.05
2009-08-08	-0.07	0.05	1.59	0.15	0.04
2009-08-09	0.00	-0.01	1.62	0.16	0.26
2009-08-10	-0.01	-0.01	1.80	0.23	0.12

CTEH | Center for Toxicology and Environmental Health, L.L.C.

Joe Cameron

Center For Toxicology and Environmntal Health L.L.C.
501-801-8500
jcameron@cteh.com

Attachment B

Stage C Integrated Air Sampling Summary

Sample ID	Set out Date	Location	Trigger Level	Trigger Date/Time	Wind Direction	Downwind of Reaction Area	Results (Link)	Average 15 min PID Reading During Sample	TICS Identified/ Sampling Methods	Ambient Sampling Temp (Celsius)
ESOH1108-1-SC001	11/8/2008	Station 1	0.50 ppm	11/12/2008 22:52	134	NO	ESOH1108-1-SC001	0.58	None	
ESOH1108-2-SC002	11/8/2008	Station 2	0.18 ppm	11/10/2008 4:38	266	YES	ESOH1101-2-SC002	-0.50	Hexaflouropropylene	7.8
ESOH1108-3-SC003	11/8/2008	Station 3	Sample Fault-Calibration gas triggered the Summa collection system							
ESOH1108-5-SC004	11/8/2008	Station 5	0.17 ppm	12/20/2008 3:53	12	NO	ESOH1108-5-SC004	22.52*	Ethane, 1,1 diflouro; Ethylene Oxide; Isopropyl Alcohol; Propane; 1,1,1,3,3,3,-hexaflouro-2-triflu; Propene, hexaflouro	7.8
ESOH1110-2-SC005	11/10/2008	Station 2	0.18 ppm	11/10/2008 20:15	338	YES	ESOH1110-2-SC005	0.17	unknown	-0.2
ESOH1111-2-SC006	11/11/2008	Station 2	Sample Fault Calibration gas triggered the Summa collection system							
ESOH1111-4-SC007	11/11/2008	Station 4	0.10 ppm	11/23/2008 14:06	227	NO	ESOH1111-4-SC007	0.09	Isopropyl alcohol; Propene, Hexafluoro-; Unknown	2.3
ESOH1113-1-SC008	11/13/2008	Station 1	0.50 ppm	11/13/2008 21:02	181	NO	ESOH1113-1-SC008	0.60	Ethyl alcohol; Propene, hexafluoro; Unknown	10.8
ESOH1114-1-SC009	11/11/2008	Station 1	0.50 ppm	11/24/2008 15:13	179	NO	ESOH1114-1-SC009	0.53	Methyl alcohol,; Propene, hexafluoro	4.6
ESOH1119-3-SC010	11/19/2008	Station 3	Sample Fault- Leaking SUMMA Cannister							
ESOH1123-3-SC011	11/23/2008	Station 3	0.13 ppm	11/29/2008 3:06	290	Downwind of Working phase	ESOH1123-3-SC011	0.04	Butane; Butane, 2 methyl-; Disulfide, dimethyl; Ethane, 1-chloro-1,1-difluoro-; Ethyl alcohol; Isobutane; Pentane; Pentane, 2-methyl-; Propane; Propene, hexafluoro-	-1.6

Stage C Integrated Air Sampling Summary

Sample ID	Set out Date	Location	Trigger Level	Trigger Date/Time	Wind Direction	Downwind of Reaction Area	Results (Link)	Average 15 min PID Reading During Sample	TICS Identified/ Sampling Methods	Ambient Sampling Temp (Celsius)
ESOH1124-4-SC012	11/24/2008	Station 4	0.10 ppm	11/24/2008 14:23	226	NO	ESOH1124-4-SC012	0.10	None	4.1
ESOH1124-4-SC013	11/24/2008	Station 4	Sample Fault-Calibration gas triggered the Summa collection system							
ESOH1124-1-SC014	11/24/2008	Station 1	Sample Fault							
ESOH1126-4-SC015	11/26/2008	Station 4	0.10 ppm	11/29/2008 11:51	192	NO	ESOH1126-4-SC015	0.10	Ethyl alcohol;Methyl Alcohol; Propene, hexafluoro-	2.7
ESOH1129-3-SC016	11/29/2008	Station 3	Sample Fault							
ESOH1129-4-SC017	11/24/2008	Station 4	Sample Fault							
ESOH1202-4-SC018	12/2/2008	Station 4	0.10 ppm	12/3/2008 8:28	195	NO	ESOH1202-4-SC018	0.10	None	-2.0
ESOH1203-4-SC019	12/3/2008	Sample Fault due to PID malfunction								
ESOH1205-4-SC020	12/5/2008	Station 4	Sample Fault							
ESOH1208-4-SC021	12/8/2008	Station 4	0.10 ppm	12/21/2008 5:52	292	NO	ESOH1208-4-SC021	0.26	Acetaldehyde; Butane, 2-methyl-; Pentane; Propene, hexafluoro-	-1.3
ESOH1218-3-SC022	12/18/2008	Station 3	Sample Fault- Leaking SUMMA Cannister							
ESOH1220-5-SC023	12/20/2008	Station 5	Sample Fault- Leaking SUMMA Cannister							

Stage C Integrated Air Sampling Summary

Sample ID	Set out Date	Location	Trigger Level	Trigger Date/Time	Wind Direction	Downwind of Reaction Area	Results (Link)	Average 15 min PID Reading During Sample	TICS Identified/ Sampling Methods	Ambient Sampling Temp (Celsius)
ESOH1222-4-SC024	12/22/2008	Station 4	0.10 ppm	1/6/2009 0:02	110	Yes	ESOH1222-4-SC024	0.06	Butane; Butane, 2-methyl-; Dimethyl ether; Ethyl alcohol; Hexane,3-methyl-; Hydroxylamine, O-methyl; Pentane; Pentane, 2-methyl-; Propene, hexafluoro-, 1-propene, 2-methyl-	-3.6
ESOH1230-5-SC025	12/30/2008	Station 5	0.17 ppm	1/8/2009 10:59	243	Yes	ESOH1230-5-SC025	0.16	Butanoic acid, ethyl ester; Ethane, 1,1 -difluoro-; Ethyl alcohol; Isopropyl Alcohol; Methyl Alcohol; Propene, hexafluoro-; 1-Propanol; 2-Butanol, (R-)	-7.0
ESOH0106-4-SC026	1/6/2009	Station 4	0.10 ppm	1/7/2008 20:11	258	No	ESOH0106-4-SC026	0.10	Butane; Butane, 2-methyl-; Ethane, 1,1-difluoro-; Pentafluoropropionamide; Pentane	-2.2
ESOH0107-2-SC027	1/7/2009	Station 2	0.18 ppm	2/9/2009 2:23	223	No	ESOH0107-2-SC027	0.92*	Propene, hexafluoro-	1.6
ESOH0108-4-SC028	1/8/2009	Station 4	0.10 ppm	Current Sample						
ESOH0108-5-SC029	1/8/2009	Station 5	0.17 ppm	1/19/2009 0:32	215	Yes	ESOH0108-5-SC029	0.26	Ethyl alcohol; Furan; Propene	-11.70
ESOH0108-3-SC030	1/8/2009	Station 3	0.13 ppm	4/25/2009 12:00			ESOH0108-3-SC030	0.20	Acetaldehyde; Butane, 2-methyl-; Ethanol; Propane; Propene, hexafluoro-2-Cyano-2-O-fluorosulfatofluoropropane	25.4
ESOH0119-5-SC031	1/19/2009	Station 5	0.13 ppm	1/19/2009 13:22	267	Yes	ESOH0119-5-SC031	0.17	Ethyl alcohol; Isopropyl Alcohol; Methyl Alcohol; 1-Butanol; 1-Propanol; 2-Butanol;	-9.30
ESOH0119-5-SC032	1/19/2009	Station 5	0.13 ppm	1/26/2009 9:21	220	Yes	ESOH0119-5-SC032	0.18	Ethyl alcohol; Propene, hexafluoro;	-12.6
ESOH0119-1-SC033	1/19/2009	Station 1	0.50 ppm	Current Sample						
ESOH0119-5-SC034	1/19/2009	Station 5	0.50 ppm	2/16/2009 7:02	10	No	ESOH0127-5-SC034	0.78	Butane, 2-methyl-; Pentane; Propane; Propene, hexaflouro-	-4.6

Stage C Integrated Air Sampling Summary

Sample ID	Set out Date	Location	Trigger Level	Trigger Date/Time	Wind Direction	Downwind of Reaction Area	Results (Link)	Average 15 min PID Reading During Sample	TICS Identified/ Sampling Methods	Ambient Sampling Temp (Celsius)
ESOH0209-2-SC035	2/9/2009	Station 2	0.50 ppm	2/10/2009 6:25	211	No	ESOH0209-2-SC035	1.41*	Propene, hexafluoro-	8.4
ESOH0210-2-SC036	2/10/2009	Station 2	0.50 ppm	Current Sample						
ESOH0216-5-SCO37	2/16/2009	Station 5	0.50 ppm	2/18/2009 6:12	168	Yes	ESOH0216-5-SC037	0.56	Acetaldehyde; Propene	2.1
ESOH0218-5-SC038	2/18/2009	Station 5	0.50 ppm	4/14/2009 16:39	97	No	ESOH0218-5-SC038	14.16	Butane, 2-methyl-; Ethane, 1,1-diflouro-; Ethanol; Methyl Alcohol; N,N'-Methylenebismethacrylamide; Oxirane, ethyl-; Propane; Propene, hexaflouro-	10.1
ESOH0416-5-SC039	4/16/2009	Station 5	0.50 ppm	4/20/2009 18:17	240	Yes	ESOH0416-5-SC039	0.04	Acetaldehyde; Butane, 2-methyl-; Propene, hexaflouro-	9.0
ESOH0422-5-SC040	4/22/2009	Station 5	0.50 ppm	5/5/2009 6:49	199	Yes	ESOH0422-5-SC040	0.59	Ethanol; Propene, hexaflouro-; Unknown; Unknown	14.7
ESOH0429-3-SC041	4/29/2009	Station 3	0.50 ppm	5/15/2009 12:30	229	Yes	ESOH0429-3-SC041	0.46		21.2
ESOH0504-5-SC042	5/4/2009	Station 5	0.50 ppm	5/16/2009 18:44	308	Yes	ESOH0504-5-SC042	22.54		12.9
ESOH0518-3-SC043	5/18/2009	Station 3	0.50 ppm	5/21/2009 12:20	227	Yes	ESOH0518-3-SC043	0.88		24.0
ESOH0520-5-SC044	5/20/2009	Station 5	0.50 ppm	6/2/2009 7:59	224	Yes	No Analysis PID error	17.41		16.8
ESOH0522-3-SC045	5/22/2009	Station 3	0.50 ppm	5/23/2009 11:40	197	No	ESOH0522-3-SC045	0.61		24.6
ESOH0528-3-SC046	5/28/2009	Station 3	0.50 ppm	6/27/2009 6:52	347	No		1.94		15.2
ESOH0609-5-SC047	6/9/2009	Station 5	0.50 ppm	6/19/2009 18:58	313	Yes	No Analysis PID error	11.32		15.2
ESOH0624-5-SC048	6/24/2009	Station 5	0.50 ppm	7/4/2009 4:03	310	Yes	No Analysis PID error	0.64		16.2

Stage C Integrated Air Sampling Summary

Sample ID	Set out Date	Location	Trigger Level	Trigger Date/Time	Wind Direction	Downwind of Reaction Area	Results (Link)	Average 15 min PID Reading During Sample	TICS Identified/ Sampling Methods	Ambient Sampling Temp (Celsius)
ESOH0707-5-SC049	7/7/2009	Station 5	0.50 ppm	7/10/2009 6:29			ESOH0707-5-SC049	0.54		
ESOH0710-3-SC050	7/10/2009	Station 3	0.50 ppm	8/3/2009 4:12				0.48		
ESOH0710-4-SC051	7/10/2009	Station 4	0.50 ppm	7/16/2009 17:44			ESOH0710-4-SC051	1.03		
ESOH0714-5-SC052	7/14/2009	Station 5	0.50 ppm	7/23/2009 16:59			ESOH0714-5-SC052	0.45		
ESOH0717-4-SC053	7/17/2009	Station 4	0.50 ppm	8/1/2009 7:22			ESOH0717-4-SC053	0.51		
ESOH0724-5-SC054	7/24/2009	Station 5	0.50 ppm	7/30/2009 5:34			ESOH0724-5-SC054	0.50		
ESOH0803-5-SC055	8/3/2009	Station 5	0.50 ppm	8/3/2009 13:56						
ESOH0804-4-SC056	8/4/2009	Station 4	0.50 ppm	Current Sample						
ESOH0806-3-SC057	8/6/2009	Station 3	0.50 ppm	Current Sample						
ESOH0806-5-SC058	8/6/2009	Station 5	0.50 ppm	Current Sample						

Pending- Sample has been collected awaiting results from the laboratory

Average PID Reading During Sample- Average PID concentration during the SUMMA can sample collection

* Potential RAEGuard PID error (Drift) noted

Station 4 Trigger Change to 0.15 ppm on January 13, 2009
Stations 1 through 5 trigger levels have been changed to 0.50 ppm on January 27,2009

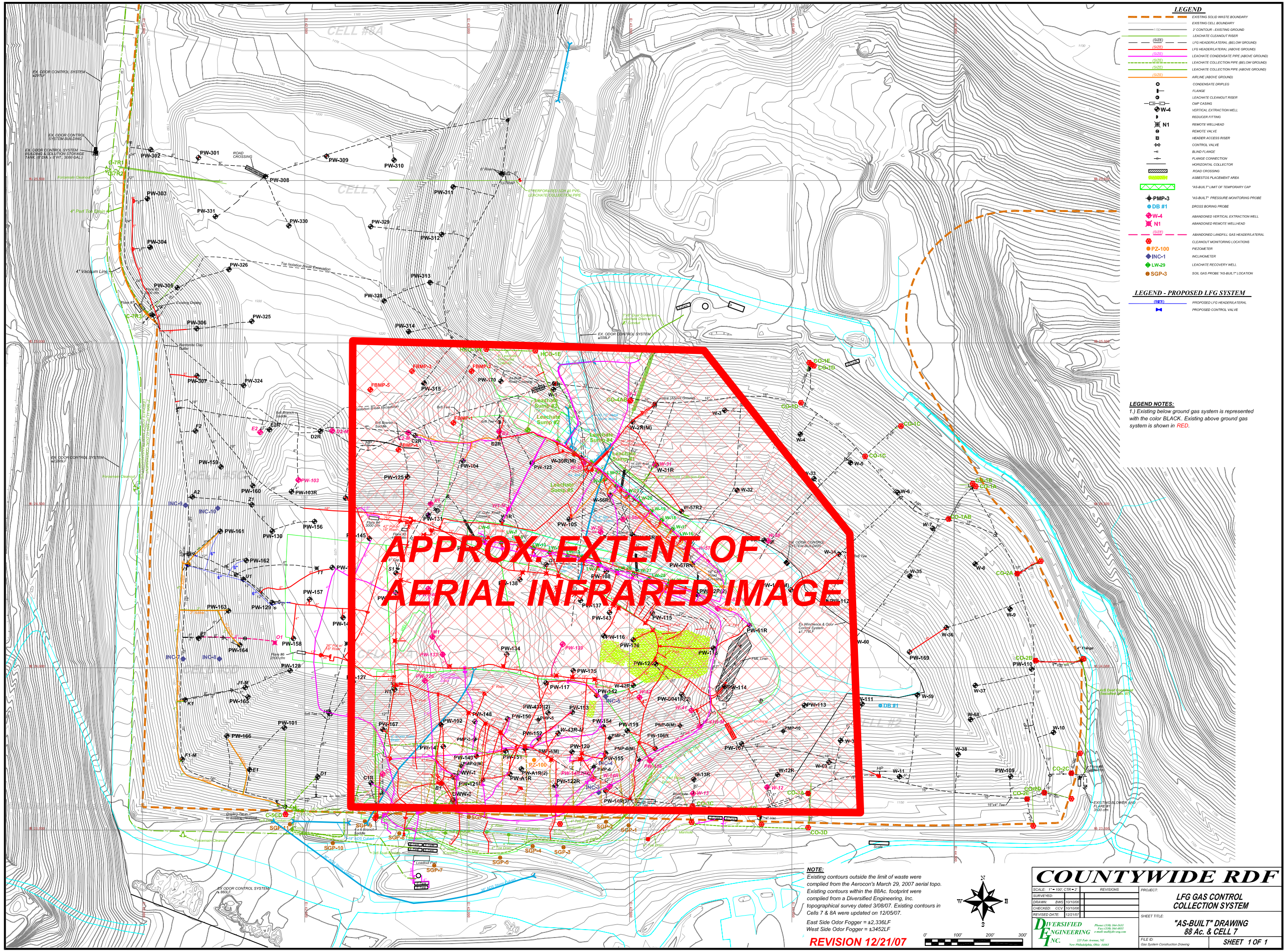
TIC analysis was dropped from the laboratory Summa Results May 15, 2009

Summa Cannisters are Batch cleaned and not individually certified clean May 15, 2009

Stage C monitoring stations were taken offline August 10, 2009

ATTACHMENT D

AERIAL INFRARED IMAGES


CELL #8A
CELL 7
EX. ODOR CONTROL SYSTEM #7675LF
EX. ODOR CONTROL SYSTEM BUILDING
EX. ODOR CONTROL SYSTEM - BLOWER & SCRUBBER STORAGE TANK, VESSEL 8 (HT. 3096 GALS)
EX. ODOR CONTROL SYSTEM #2358LF
EX. ODOR CONTROL SYSTEM #1778LF
EX. ODOR CONTROL SYSTEM #2666LF
EX. ODOR CONTROL SYSTEM #860LF
EX. ODOR CONTROL SYSTEM #550LF
EX. ODOR CONTROL SYSTEM BUILDING
C-7R1
C-7R2
C-7R3
C-5E
C-5D
ROAD CROSSING
4" Vacuum Line
Top Isolation Break Excavation
Bottom Isolation Break Excavation
Existing Drainage
Perimeter Ditch
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APPROX. EXTENT OF AERIAL INFRARED IMAGE
LEGEND
EXISTING SOLID WASTE BOUNDARY
EXISTING CELL BOUNDARY
2' CONTOUR - EXISTING GROUND
LEACHATE CLEANOUT RISER
LFG HEADER/LATERAL (BELOW GROUND)
LFG HEADER/LATERAL (ABOVE GROUND)
LEACHATE CONDENSATE PIPE (ABOVE GROUND)
LEACHATE COLLECTION PIPE (BELOW GROUND)
LEACHATE COLLECTION PIPE (ABOVE GROUND)
AIRLINE (ABOVE GROUND)
CONDENSATE DRIPLEG
FLANGE
LEACHATE CLEANOUT RISER
CMP CASING
VERTICAL EXTRACTION WELL
REDUCER FITTING
REMOTE WELLHEAD
REMOTE VALVE
HEADER ACCESS RISER
CONTROL VALVE
BLIND FLANGE
FLANGE CONNECTION
HORIZONTAL COLLECTOR
ROAD CROSSING
ASBESTOS PLACEMENT AREA
"AS-BUILT" LIMIT OF TEMPORARY CAP
"AS-BUILT" PRESSURE MONITORING PROBE
DROSS BORING PROBE
ABANDONED VERTICAL EXTRACTION WELL
ABANDONED REMOTE WELLHEAD
ABANDONED LANDFILL GAS HEADER/LATERAL
CLEANOUT MONITORING LOCATIONS
PIEZOMETER
INCLINOMETER
LEACHATE RECOVERY WELL
SOIL GAS PROBE "AS-BUILT" LOCATION
LEGEND - PROPOSED LFG SYSTEM
PROPOSED LFG HEADER/LATERAL
PROPOSED CONTROL VALVE
LEGEND NOTES:
1.) Existing below ground gas system is represented with the color BLACK. Existing above ground gas system is shown in RED.
NOTE:
Existing contours outside the limit of waste were complied from the Aerocon's March 29, 2007 aerial topo. Existing contours within the 88Ac. footprint were complied from a Diversified Engineering, Inc. topographical survey dated 3/08/07. Existing contours in Cells 7 & 8A were updated on 12/05/07.
East Side Odor Fogger = ±2,336LF
West Side Odor Fogger = ±3452LF
REVISION 12/21/07
0' 100' 200' 300'
COUNTYWIDE RDF
SCALE: 1" = 100' CTR = 2'
REVISIONS
SURVEYED:
DRAWN: BWS 10/10/06
CHECKED: CCV 10/10/06
REVISED DATE: 12/21/07
DIVERSIFIED ENGINEERING INC.
Phone: (330) 364-2431
Fax: (330) 364-4031
e-mail: mail@dei-eng.com
331 Fair Avenue, NE
New Philadelphia, Ohio 44663
PROJECT:
LFG GAS CONTROL COLLECTION SYSTEM
SHEET TITLE:
"AS-BUILT" DRAWING 88 Ac. & CELL 7
FILE ID:
Gas System Construction Drawing
SHEET 1 OF 1

PREDICTIVE SERVICE®

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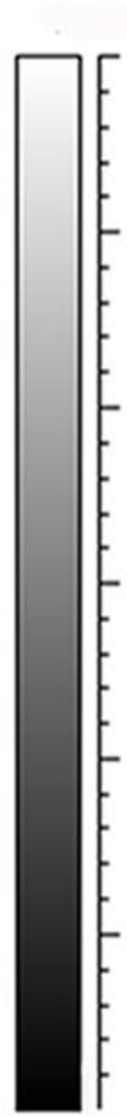
Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 7/20/2009

121.4
116.2
110.8
93.7
105.9
88.1
81.8
86.1
84.1
83.1
75.1
75.4
130.6

AMBIENT TEMPERATURE
AT TIME OF IMAGE WAS
53 DEG. F



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Data Collected 8/16/2009