Report of Progress, April 30, 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Paragraph 15.a and b Enhanced Gas Extraction and Temperature Monitoring [NOTE: THIS WORK ITEM IS SUPERSEDED BY AN ISOLATION BREAK EXCAVATION].

All waste material had been removed from the Isolation Break Excavation as of April 17. As of April 20, capping of the bottom of the Isolation Break was in progress. A drawing indicating the limit of work and progress is contained in Attachment A-1. A bottom road will be constructed and gas collection wells installed before the temporary FML cap can be placed on the south; this work is anticipated to be completed in May.

A brief summary of observations from the excavation of the Isolation Break (see Attachment A-2 for daily details):

- No reaction-impacted waste, burnt waste, smoke, or steam was observed in any of the excavated waste or on either slope face at any time,
- Typical waste temperatures were in the 90° F to 120° F range, with a maximum of 136° F,
- About 80 cubic yards of baghouse dust was segregated and then disposed in the 88-acre "bowl" area,
- Only small, local, discontinuous moisture pockets were observed. Conditions at the bottom of the excavation were quite dry,
- Continuous and intensive air monitoring indicated that no OSHA worker air quality standards were exceeded, and that no benzene or ammonia was detected in the breathing zone at all,
- A full, complete, and total separation of waste, leachate, and gas was successfully achieved between the 88-acre area and the 170-acre area.

In situ temperature monitoring of the FBMP thermocouple monitors were continued throughout the excavation; results are presented in Attachment A-3.

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

A map depicting the current status of capping is included in Attachment B. The bowl area will likely be capped in May 2009.

Composite capping in the Cells 1-3 area is still on hold until U.S. EPA, Ohio EPA, and Countywide resolve details for a composite cap cross section and area of coverage.

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

In accordance with the Isolation Break Excavation work plan, air monitoring was conducted during excavation activities. Each tier is discussed below with commentary on the results.

Tier 1 – Worker Monitoring. This utilizes PID (for total VOCs), 4-gas meter (for methane, carbon monoxide, oxygen, and hydrogen sulfide), ammonia meter, and benzene Drager tubes. A summary of PID results can be found on the Isolation Break Excavation Summary in Attachment A-2. No PID readings approached worker levels of concern and no ammonia or benzene was detected.

Tier 2 – Construction Zone Monitoring. During mass waste excavation, monitoring was conducted about 300 feet downwind of the excavation using a PID and, every third active excavation day, an 8-hour SUMMA canister (analyzed for volatile organics). A summary of PID results can be found on the Isolation Break Excavation Summary in Attachment A-2. No PID readings approached worker or community levels of concern. A table containing results of the SUMMA canister analyses is provided in Attachment C-1.

The monitoring conducted immediately downwind of the isolation break work demonstrated that even with an open excavation that allows landfill gases to escape, the escaping landfill gas caused only a slight increase in the ambient air concentrations of VOCs; and this slight increase did not cause any constituent to exceed benchmarks considered reasonable for short-term or long-term exposures by the general public, even just 300' downwind of the source. As one moves further from the excavation, concentrations decreased even further, reaching approximately background levels while still on the landfill property.

Tier 3 - "Stage C" Fixed Continuous Monitoring. Consists of the five continuous air monitors equipped with PIDs and automatically triggered 15-minute SUMMA canister collection. Results of monitoring for March 28, 2009 to April 28, 2009 are provided in Attachment C-2.

Tier 4 – Community Monitoring. This is comprised of the four off-site community air stations that have been monitored every six days for the past 24 months, and has now been temporarily increased to include sampling every three days during Isolation Break work. The table provided in Attachment C-1 contains results for the SUMMA canister analyses.

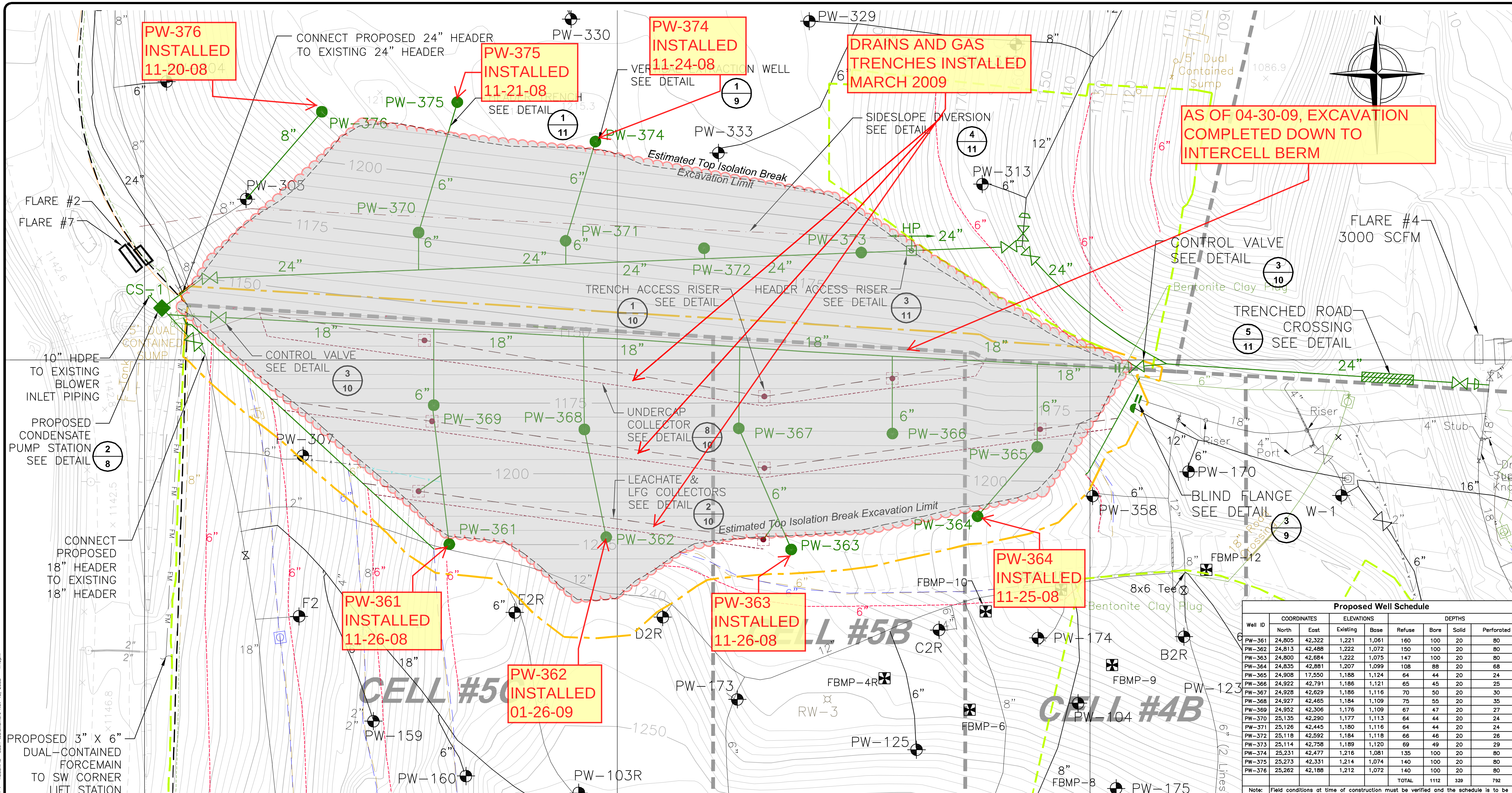
Tier 5 – Odor Monitoring. At least eight odor monitoring circuits are made around the public roads encircling the facility, resulting in about 184 readings per day. A Nasal Ranger reading of "4" is considered "distinct." During excavation, almost all of the off-site detections of 4 or greater were attributable to the excavation activity. A summary of results, indicated as the number of occurrences at a level 4 or greater, can be found on the Isolation Break Excavation Summary in Attachment A-2.

Paragraph 15.g Aerial Infrared Imaging.

March 2009 and April 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 March 2009 image was 42° F and during the April 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, on the April 2009 image, evidence of the recently-completed "Deep Trench" component of the capping work is clearly evident.

ATTACHMENT A-1

ISOLATION BREAK EXCAVATION PROGRESS



Well ID	COORDINATES		ELEVATIONS		DEPTHS			
	North	East	Existing	Base	Refuse	Bore	Solid	Perforated
PW-361	24,805	42,322	1,221	1,061	160	100	20	80
PW-362	24,813	42,488	1,222	1,072	150	100	20	80
PW-363	24,800	42,684	1,222	1,075	147	100	20	80
PW-364	24,835	42,881	1,207	1,099	108	88	20	68
PW-365	24,908	17,550	1,188	1,124	64	44	20	24
PW-366	24,922	42,791	1,186	1,121	65	45	20	25
PW-367	24,928	42,629	1,186	1,116	70	50	20	30
PW-368	24,927	42,465	1,184	1,109	75	55	20	35
PW-369	24,952	42,306	1,176	1,109	67	47	20	27
PW-370	25,135	42,290	1,177	1,113	64	44	20	24
PW-371	25,126	42,445	1,180	1,116	64	44	20	24
PW-372	25,118	42,592	1,184	1,118	66	46	20	26
PW-373	25,114	42,758	1,189	1,120	69	49	20	29
PW-374	25,231	42,477	1,216	1,081	135	100	20	80
PW-375	25,273	42,331	1,214	1,074	140	100	20	80
PW-376	25,262	42,188	1,212	1,072	140	100	20	80
					TOTAL	1112	320	792

Note: Field conditions at time of construction must be verified and the schedule is to be revised to reflect actual conditions. A separate well schedule shall be issued at the time of construction. Max. Drill Depth = 100'.

0 50 100
SCALE IN FEET

ANNOTATIONS IN RED FONT PRESENT ISOLATION BREAK ACTIVITIES COMPLETED AS OF 04-30-09

1. MAINTAIN 5% MIN. SLOPE ON ALL HEADERS.
2. PROPOSED GAS WELL WILL BE INSTALLED BEFORE AND DURING EXCAVATION AND WILL BE USED FOR ODOR CONTROL UTILIZING TEMPORARY LATERALS, HEADERS, AND REMOTE WELLHEADS AS NECESSARY.

LEGEND

- EXISTING SOLID WASTE BOUNDARY
- EXISTING CELL BOUNDARY
- EXISTING TEMPORARY FML CAP LIMIT
- PROPOSED NEW TEMPORARY FML CAP LIMIT (APPROXIMATE)
- 2' CONTOUR – EXISTING GROUND
- EXISTING HEADERS/LATERALS
- EXISTING AREA N LEACHATE (ABOVE GROUND)
- EXISTING AREA N LEACHATE HORIZONTAL COLLECTOR (IN COMMON TRENCH BELOW LFG COLLECTOR)
- EXISTING AREA N LFG HORIZONTAL COLLECTOR (IN TRENCH ABOVE LEACHATE COLLECTOR))
- EXISTING AREA N UNDERCAP COLLECTOR (AT GROUND SURFACE)
- PROPOSED LFG & LEACHATE COLLECTOR TRENCH SEE DETAIL 3/10
- PROPOSED UNDERCAP COLLECTOR SEE DETAIL 8/10
- PROPOSED HEADERS/LATERALS SEE DETAIL 1/11
- EXISTING GAS WELL
- PROPOSED GAS WELL
- PROPOSED RISER
- EXISTING FIREBREAK MONITORING POINT
- EXISTING RISER
- EXISTING REDUCER
- PROPOSED REDUCER
- EXISTING VALVE
- PROPOSED VALVE
- PROPOSED ROAD CROSSING

*DRAWING TO BE PLOTTED IN COLOR

DRAFT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE 10/30/08		DRAWN BY TSS / DESIGNED BY TAB			CHECKED BY MC / APPROVED BY BOS	

CORNERSTONE Environmental Group, LLC

This drawing represents intellectual property of Cornerstone Environmental Group, LLC. Any modification to the original by other than Cornerstone Environmental Group, LLC personnel violates its original purpose and as such is rendered void. Cornerstone Environmental Group, LLC will not be held liable for any changes made to this document without express written consent of the originator.

REPUBLIC SERVICES OF OHIO II, LLC
COUNTYWIDE RECYCLING AND DISPOSAL FACILITY
EAST SPARTA, STARK COUNTY, OHIO

GAS, LEACHATE AND COVER SYSTEM RECONFIGURATION

FIGURE NO. 7

PROJECT NO. 070197

ATTACHMENT A-2

ISOLATION BREAK EXCAVATION SUMMARY TABLE

Countywide RDF
Isolation Break Excavation Summary

Date	Day	Deck #	High Waste Temp (°F)	Aluminum Waste Encountered	Reaction Impacted Waste Encountered	Breathing/Work Zone (Tier 1) VOC Data (ppb) High/Avg.	300' Downwind (Tier 2) VOC Data (ppb) High (1 min. avg.)/Avg.	Nasal Ranger Daily Readings ≥4
12/8/2008	Monday	1	80	No	No	600/200	58/2.5	0
12/9/2008	Tuesday	1	107	No	No	500/100	128/1	1
12/10/2008	Wednesday	1	109	No	No	900/500	35/0.5	3
12/11/2008	Thursday	1	123	No	No	2,800/1,600	2/0	4
12/12/2008	Friday	1	108	No	No	1,400/850	166/9	3
12/13/2008	Saturday							
12/14/2008	Sunday							
12/15/2008	Monday	1	110	No	No	800/200	191/9	2
12/16/2008	Tuesday	1	113	No	No	800/100	177/9	6
12/17/2008	Wednesday	1/2	120	No	No	500/82	2/0	3
12/18/2008	Thursday	2	128	No	No	900/141	65/0	2
12/19/200	Friday	2	118	No	No	0/0	361/50	4
12/20/2008	Saturday	2	125	No	No	900/361	372/60	0
12/21/2008	Sunday							
12/22/2008	Monday							
12/23/2008	Tuesday							
12/24/2008	Wednesday							
12/25/2008	Thursday							
12/26/2008	Friday							
12/27/2008	Saturday							
12/28/2008	Sunday							
12/29/2008	Monday							
12/30/2008	Tuesday							
12/31/2008	Wednesday							
1/1/2009	Thursday							
1/2/2009	Friday							
1/3/2009	Saturday							
1/4/2009	Sunday							
1/5/2009	Monday	2	128	No	No	1,600/317	74/2	0
1/6/2009	Tuesday	2	106	No	No	300/100	554/128	3
1/7/2009	Wednesday							
1/8/2009	Thursday	2	109	No	No	5,600/615	306/19	4
1/9/2009	Friday	2	102	No	No	800/395	216/5	3
1/10/2009	Saturday							

Countywide RDF
Isolation Break Excavation Summary

1/11/2009	Sunday							
1/12/2009	Monday	3	100	No	No	600/65	17/0	1
1/13/2009	Tuesday	3	115	No	No	5,000/835	162/15	4
1/14/2009	Wednesday	3	120	No	No	300/50	122/4	2
1/15/2009	Thursday	3	115	No	No	5,100/755	43/0	3
1/16/2009	Friday	3	106	No	No	900/400	103/16	4
1/17/2009	Saturday							
1/18/2009	Sunday							
1/19/2009	Monday	3	118	No	No	5,800/1,061	322/27	3
1/20/2009	Tuesday	3	117	No	No	900/435	472/48	0
1/21/2009	Wednesday	3/4	113	No	No	800/235	189/57	3
1/22/2009	Thursday	4	136	No	No	600/350	100/2	5
1/23/2009	Friday	4	135	No	No	5,600/880	714/84	3
1/24/2009	Saturday							
1/25/2009	Sunday							
1/26/2009	Monday	4	128	No	No	800/369	649/122	5
1/27/2009	Tuesday	4	132	No	No	800/447	728/119	3
1/28/2009	Wednesday							
1/29/2009	Thursday	4	124	No	No	800/281	11/0	3
1/30/2009	Friday	4	120	No	No	800/424	362/81	3
1/31/2009	Saturday							
2/1/2009	Sunday							
2/2/2009	Monday	4/5	122	No	No	800/370	415/22	2
2/3/2009	Tuesday	5	128	No	No	3,600/665	62/1	2
2/4/2009	Wednesday	5	110	No	No	900/460	223/45	5
2/5/2009	Thursday	5	116	No	No	500/170	150/2	5
2/6/2009	Friday	5	128	Yes	No	1,800/520	403/76	2
2/7/2009	Saturday							
2/8/2009	Sunday							
2/9/2009	Monday	5	122	No	No	100/5	83/7	4
2/10/2009	Tuesday							
2/11/2009	Wednesday							
2/12/2009	Thursday							
2/13/2009	Friday							
2/14/2009	Saturday							
2/15/2009	Sunday							
2/16/2009	Monday	5/6	114	No	No	5,600/660	196/5	2
2/17/2009	Tuesday	5/6	115	Yes	No	200/25	731/76	3
2/18/2009	Wednesday							
2/19/2009	Thursday							
2/20/2009	Friday	5/6	114	Yes	No	700/230	215/43	0

Countywide RDF
Isolation Break Excavation Summary

2/21/2009	Saturday							

Countywide RDF
Isolation Break Excavation Summary

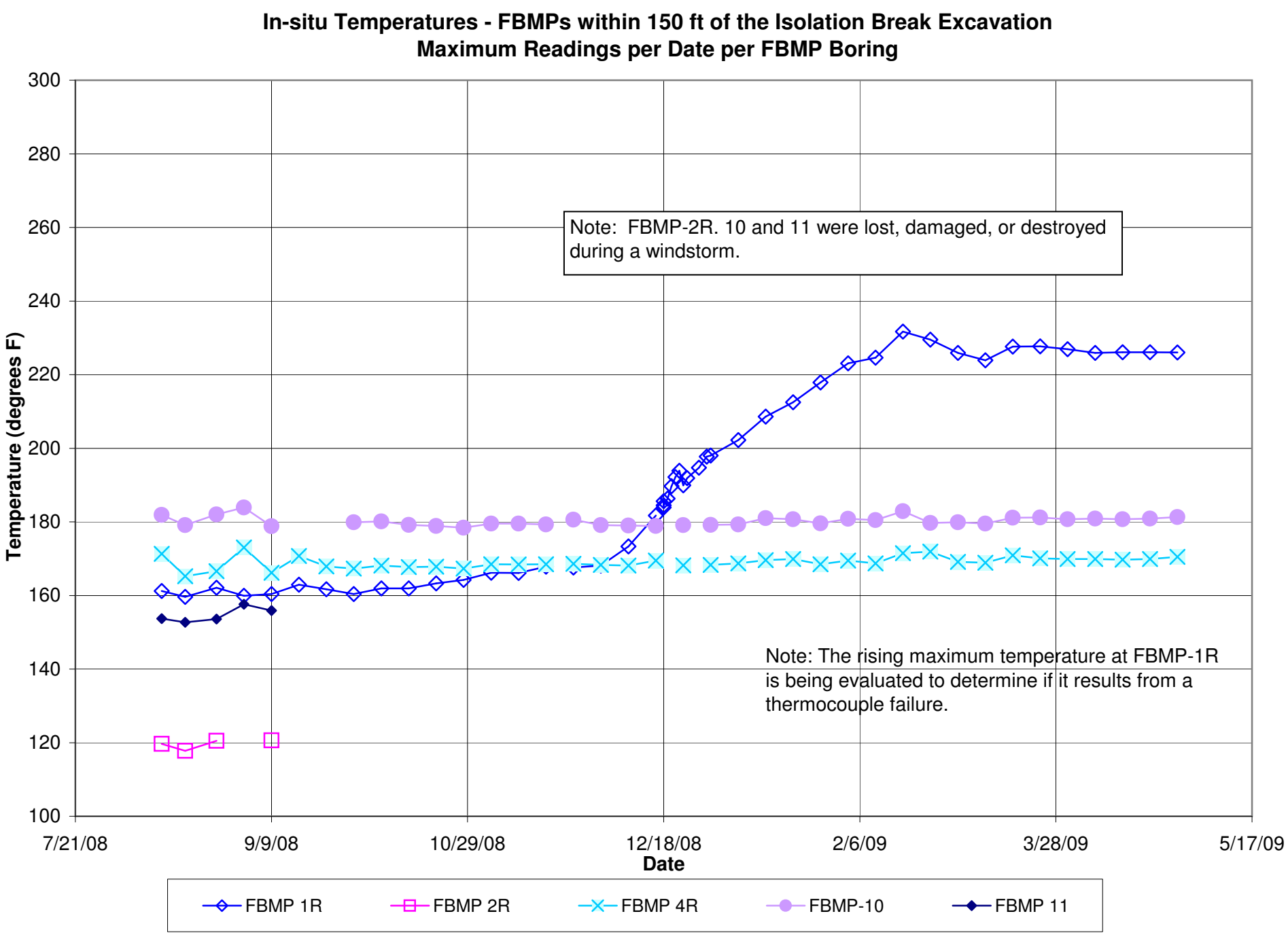
2/22/2009	Sunday							
2/23/2009	Monday	6	110	No	No	900/406	225/60	3
2/24/2009	Tuesday	6/7	129	Yes	No	300/35	105/8	1
2/25/2009	Wednesday	6/7	114	No	No	700/83	534/81	4
2/26/2009	Thursday							
2/27/2009	Friday							
2/28/2009	Saturday							
3/1/2009	Sunday							
3/2/2009	Monday	7	105	No	No	300/47	27/1	2
3/3/2009	Tuesday	7	89	No	No	400/80	11/0	0
3/4/2009	Wednesday	Note: 3/4/2009 through 3/29/2009 - Installed leachate and gas collection piping system on south slope of Isolation Break						
3/5/2009	Thursday							
3/6/2009	Friday							
3/7/2009	Saturday							
3/8/2009	Sunday							
3/9/2009	Monday							
3/10/2009	Tuesday							
3/11/2009	Wednesday							
3/12/2009	Thursday							
3/13/2009	Friday							
3/14/2009	Saturday							
3/15/2009	Sunday							
3/16/2009	Monday							
3/17/2009	Tuesday							
3/18/2009	Wednesday							
3/19/2009	Thursday							
3/20/2009	Friday							
3/21/2009	Saturday							
3/22/2009	Sunday							
3/23/2009	Monday							
3/24/2009	Tuesday							
3/25/2009	Wednesday							
3/26/2009	Thursday							
3/27/2009	Friday							
3/28/2009	Saturday							
3/29/2009	Sunday							
3/30/2009	Monday	8	97	No	No	0/0	9/0	0
3/31/2009	Tuesday	8	104	No	No	0/0	95/9	6
4/1/2009	Wednesday							
4/2/2009	Thursday	8	102	No	No	0/0	169/79	3
4/3/2009	Friday							

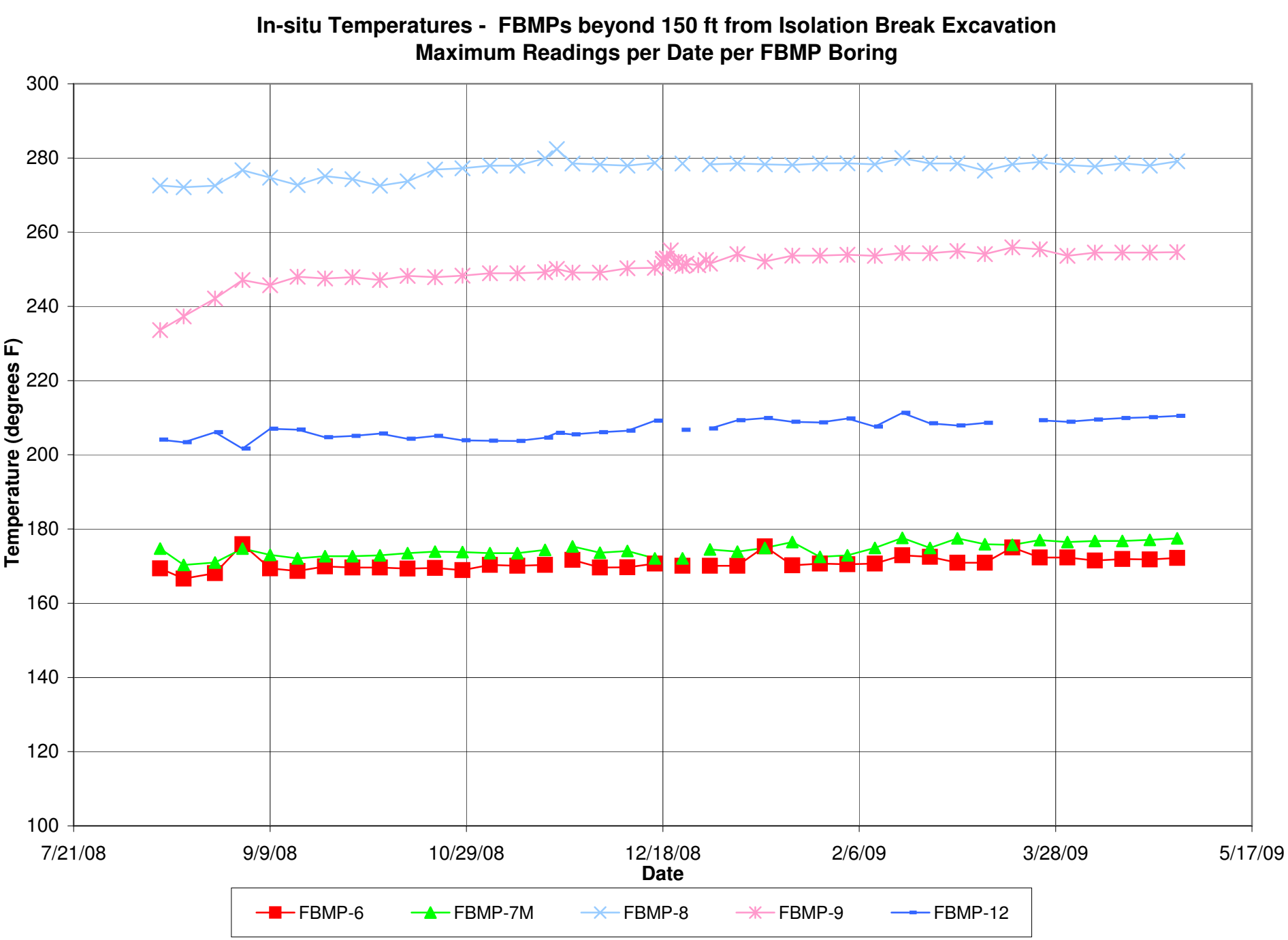
Countywide RDF
Isolation Break Excavation Summary

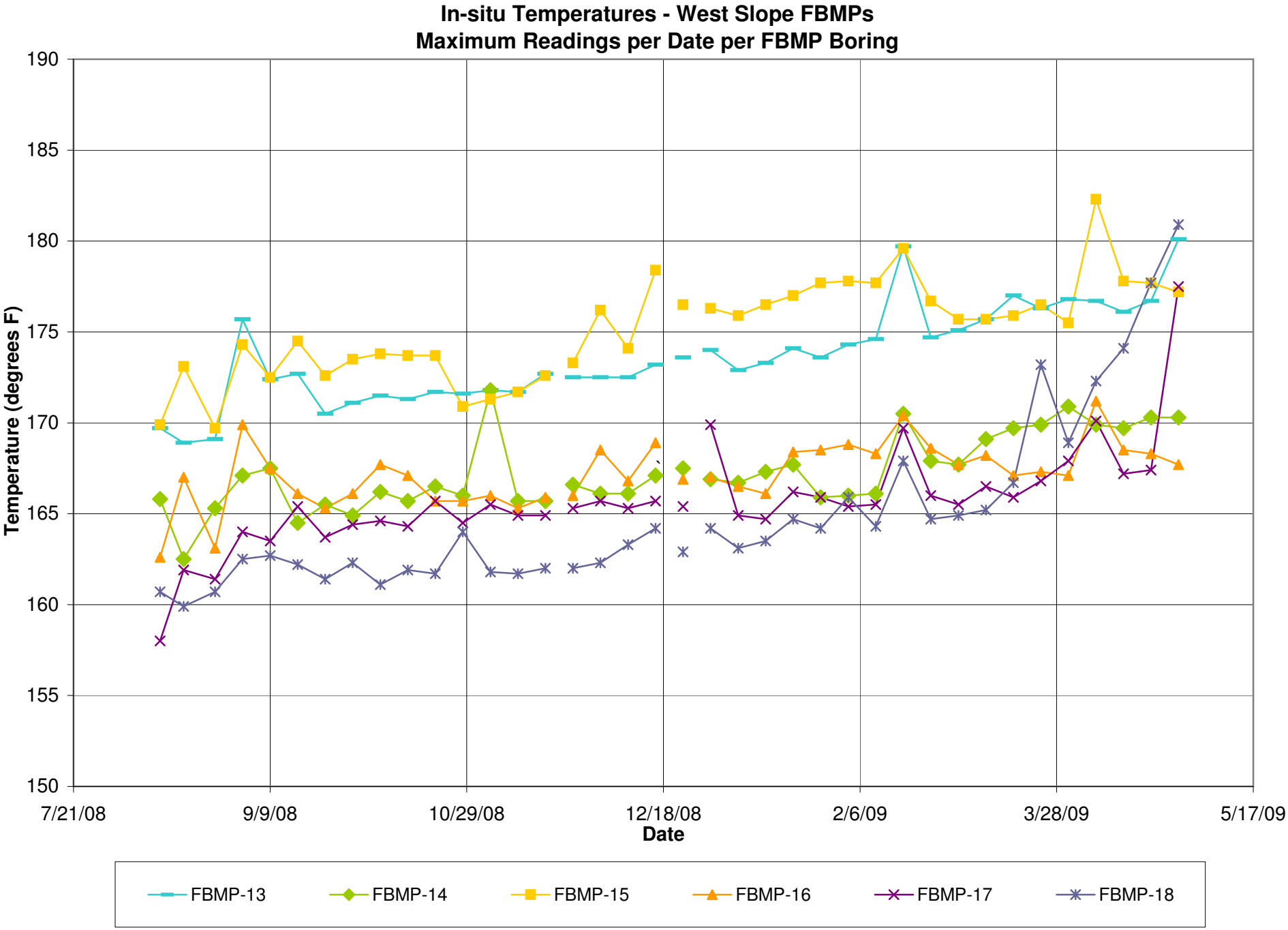
4/4/2009	Saturday							
4/5/2009	Sunday							
4/6/2009	Monday							
4/7/2009	Tuesday	9 (Base)	45	No	No	200/19	3/0	0
4/8/2009	Wednesday	9 (Base)	48	No	No	400/61	14/1	0
4/9/2009	Thursday	9 (Base)	49	No	No	400/147	41/5	0
4/10/2009	Friday							
4/11/2009	Saturday							
4/12/2009	Sunday							
4/13/2009	Monday	9 (Base)	50	No	No	3,600/1,507	20/1	2
4/14/2009	Tuesday	9 (Base)	50	No	No	900/444	7/1	0
4/15/2009	Wednesday							
4/16/2009	Thursday	9 (Base)	50	No	No	900/494	204/19	0
4/17/2009	Friday	9 (Base)	48	No	No	400/133	978/62	0

ATTACHMENT A-3

FBMP TEMPERATURE PROBE GRAPHS

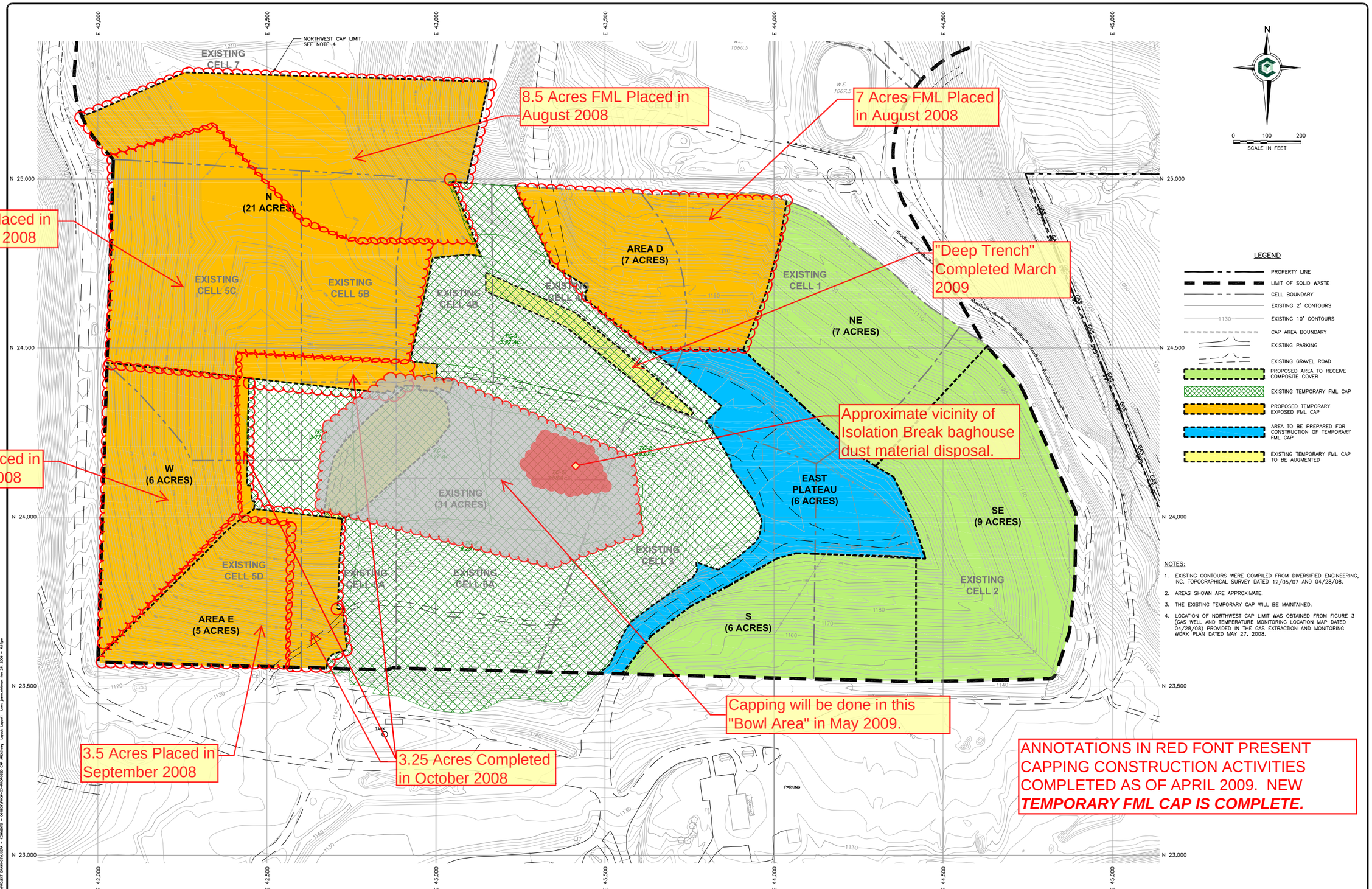

In-situ Temperatures - FBMPs within 150 ft of the Isolation Break Excavation
Maximum Readings per Date per FBMP Boring
Temperature (degrees F)
300
280
260
240
220
200
180
160
140
120
100
7/21/08
9/9/08
10/29/08
12/18/08
2/6/09
3/28/09
5/17/09
Date
Note: FBMP-2R. 10 and 11 were lost, damaged, or destroyed 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
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)
190
185
180
175
170
165
160
155
150
7/21/08
9/9/08
10/29/08
12/18/08
2/6/09
3/28/09
5/17/09
Date
FBMP-13
FBMP-14
FBMP-15
FBMP-16
FBMP-17
FBMP-18

ATTACHMENT B

CAPPING AND STABILIZATION PROGRESS



NOTES:

1. EXISTING CONTOURS WERE COMPILED FROM DIVERSIFIED ENGINEERING, INC. TOPOGRAPHICAL SURVEY DATED 12/05/07 AND 04/28/08.
2. AREAS SHOWN ARE APPROXIMATE.
3. THE EXISTING TEMPORARY CAP WILL BE MAINTAINED.
4. LOCATION OF NORTHWEST CAP LIMIT WAS OBTAINED FROM FIGURE 3 (GAS WELL AND TEMPERATURE MONITORING LOCATION MAP DATED 04/28/08) PROVIDED IN THE GAS EXTRACTION AND MONITORING WORK PLAN DATED MAY 27, 2008.

ANNOTATIONS IN RED FONT PRESENT CAPPING CONSTRUCTION ACTIVITIES COMPLETED AS OF APRIL 2009. NEW ***TEMPORARY FML CAP IS COMPLETE.***

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	06/24/08	REVISED PER US EPA 06/06/08 COMMENTS	JAW	JGW	BOS	JGW

DATE OF ISSUE 05/12/08
DRAWN BY JAW
DESIGNED BY JGW
CHECKED BY JCO
APPROVED BY JGW

CORNERSTONE Environmental Group, LLC

REPUBLIC SERVICES OF OHIO II, LLC
COUNTYWIDE RECYCLING & DISPOSAL FACILITY
STARK COUNTY, EAST SPARTA, OHIO
LANDFILL COVER & LONG TERM CAPPING
PROPOSED AREAS FOR 2008 CAP CONSTRUCTION

SHEET NO. **3**
PROJECT NO. 070187

1" 1/2" 0" 1"

File: K:\COUNTYWIDE - P&D - CONSTRUCTION WORK PLANS\PROJECT SUBMISSIONS - COMMENTS - DATA\MXD\FIG-03-PROPOSED CAP AREAS.mxd Layout: Layout1 User: jwarmbrodt Jun 24, 2008 - 4:17pm

ATTACHMENT C-1

TIER 2 AND TIER 4 VOC SUMMA CANISTER ANALYTICAL RESULTS

Table 1. Summary of TO-15 Results from SUMMA Samples Collected Downwind from Isolation Break

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Analyte	**Downwind 12/9/08**	**Downwind 12/12/08**	**Downwind 12/15/08**	**Downwind 12/18/08**	**Downwind 1/05/09**	**Downwind 1/08/09**	**Downwind 1/14/09**	**Downwind 1/20/09**	**Downwind 1/23/09**	**Downwind 1/26/09**	**Downwind 1/29/09**	**Downwind 2/04/09**	**Downwind 2/16/09**	**Downwind 2/25/09**	**Downwind 3/03/09**	**Downwind 3/30/09**	**Downwind 4/02/09**	**Avg**
trans-1,3-Dichloropropene																		
1,2-Dichloro-1,1,2,2-tetrafluoroethane																		
Acetone	5.1	6.9	7.5	5.1	2.8	13	5.8	14	18	3.6	8.9	5.6	5.6	6.9	2.0	5.3	3.1	7.01
Ethylbenzene	0.46	1.0	0.1		0.13	1.2	0.46	0.68	0.15	0.090	0.670	0.210	0.31	0.24		0.24	0.28	0.42
Trichlorofluoromethane	0.25	0.22	0.23	0.24	0.18	0.21	0.20	0.29	0.22	0.21	0.21	0.23	0.21	0.22	0.27	0.19	0.31	0.23
n-Heptane	0.64	0.30	0.15		0.16	0.45	0.31	0.56	0.54	0.16	0.31	0.15	0.25	0.21	0.12	0.093	0.27	0.29
Hexachlorobutadiene																		
n-Hexane	0.22	0.17	0.12	0.14	0.17		0.20	0.40	0.54	0.31	0.17	0.17	0.15	0.19	0.16	0.084	0.28	0.22
2,2,4-Trimethylpentane	0.08	0.064			0.077	0.099	0.10	0.14	0.16	0.044	0.062	0.054	0.057	0.059			0.087	0.08
tert-Butyl alcohol	0.13	0.16	0.11	0.12	0.073	0.35	0.15	0.48	0.40	0.059	0.260	0.061	0.13	0.097	0.048	0.12	0.13	0.17
Methylene chloride	2.8	0.49	0.2	0.34	0.27	0.25	0.25	2.4	0.78	0.19	0.21	0.52	0.21	0.42	0.13	0.22	0.21	0.58
Benzene	0.39	0.50	0.21	0.32	0.30	0.89	0.52	0.84	0.94	2.0	0.44	0.26	0.32	0.66	0.23	0.15	2.2	0.66
Styrene	0.12	1.0				0.1					0.070							0.33
1,1,2,2-Tetrachloroethane			0.23	0.22														0.23
Tetrachloroethene	0.14	0.066				0.069		0.065	0.13						1.3			0.30
Tetrahydrofuran	0.47	0.57		0.22		0.90	0.34	0.83	0.93	0.97	0.47	0.16	0.23	0.31		0.13	0.87	0.53
Toluene	2.9	2.4	0.63	0.19	0.86	3.9	1.3	3.3	1.8	0.65	2.1	0.85	1.3	0.78	0.20	0.54	1.0	1.45
1,2,4-Trichlorobenzene					0.085													0.09
1,1,1-Trichloroethane		0.073																0.07
Trichloroethene	0.054	0.040	0.230	1.5					0.084						0.19			0.35
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	0.071	0.082	0.075	0.066	0.064	0.074	0.072	0.069	0.068	0.071	0.070	0.069	0.066	0.075	0.053	0.082	0.07
1,2,4-Trimethylbenzene	0.17	0.38			0.085	0.54	0.18	0.19			0.35	0.076	0.19	0.16		0.080	0.20	0.22
1,3,5-Trimethylbenzene		0.14				0.21	0.099	0.076			0.15		0.079				0.11	0.12
Vinyl chloride									0.11									0.11
o-Xylene	0.3	0.5	0.078		0.11	0.73	0.29	0.30			0.45	0.14	0.21	0.18		0.11	0.35	0.29
m-Xylene & p-Xylene	1.1	1.8	0.24		0.36	3.0	1.1	1.3	0.22	0.13	1.7	0.49	0.78	0.58		0.50	1.0	0.95
2-Butanone (MEK)	2.7	2.8	0.88	1.4	1.2	6.3	3.2	9.2	6.2	1.0	3.5	1.6	2.0	1.5	0.43	0.81	0.92	2.68
4-Methyl-2-pentanone (MIBK)	0.16	0.16	0.14		0.058	0.31	0.11	0.27	0.13		0.21	0.049	0.13	0.093			0.078	0.15
Bromomethane																		
4-Ethyltoluene	0.077	0.15	0.076			0.23	0.094	0.079			0.14						0.076	0.12
Carbon disulfide	0.044	0.045	0.097	0.077		0.033	0.063	0.10	0.08		0.055						0.033	0.06
Carbon tetrachloride	0.093	0.069	0.099	0.11	0.082	0.065	0.10	0.094	0.076	0.066	0.069	0.069	0.067	0.078	0.066	0.056	0.10	0.08
Chlorobenzene																		
Chloroethane			0.044						0.036								0.043	0.04
Chloroform	0.045			0.039														0.04
Chloromethane	0.53	0.57	0.73	0.53	0.40	0.47	0.60	0.60	0.63	0.72	0.51	0.61	0.62	0.58	0.64	0.56	0.94	0.60
2-Chlorotoluene						0.25												0.25
Cyclohexane	0.14								0.44		0.067	0.53		0.065	0.072		0.11	0.20
1,2-Dichlorobenzene																		
1,3-Dichlorobenzene																		
1,4-Dichlorobenzene						0.088	0.066				0.084							0.08
Dichlorodifluoromethane	0.65	0.50	0.52	0.54	0.40	0.46	0.45	0.61	0.63	0.53	0.54		0.52	0.53	0.54	0.48	0.65	0.53
1,1-Dichloroethane									0.05									0.05
1,2-Dichloroethane									0.069									0.07
cis-1,2-Dichloroethene				0.11														0.11
Sum of TO-15 Compounds	**19.84**	**21.14**	**12.72**	**11.27**	**7.87**	**34.21**	**16.06**	**36.88**	**33.42**	**10.80**	**21.77**	**11.90**	**13.43**	**13.92**	**6.47**	**9.72**	**13.43**	***17.34***
																	Sum of Averages	***19.83***

Table 2. Summary of TO-15 TIC Results from SUMMA Samples Collected Downwind from Isolation Break

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
TICs	**Downwind 12/9/08**	**Downwind 12/12/08**	**Downwind 12/15/08**	**Downwind 12/18/08**	**Downwind 1/05/09**	**Downwind 1/08/09**	**Downwind 1/14/09**	**Downwind 1/20/09**	**Downwind 1/23/09**	**Downwind 1/26/09**	**Downwind 1/29/09**	**Downwind 2/04/09**	**Downwind 2/16/09**	**Downwind 2/25/09**	**Downwind 3/03/09**	**Downwind 3/30/09**	**Downwind 4/02/09**	**Avg**
1-Propanol						6.9	2.7	8.7	12		4.5							*6.96*
1-Propene, 2-methyl-																		
2-butanol	3.2					5.1	3.4	8.2	14		5.6							*6.58*
4,7-dimethylundecane																		
Acetaldehyde									7.6		3.7							*5.65*
Butane								2.7	3.0	3.0								*2.90*
Butane, 2-methyl																		
butanol	2							4										*3.15*
Decane, 2,5,6-trimethyl-																		
Eicosane																		
ethanol	14	6.0		3.3	5.4	25.0	8.7	26	40		18	7.1	7.9	2.7				*13.68*
Heptane, 2,2-dimethyl-																		
Isobutane																		
isopropanol	3.4					6.1	3.5	8.4	14		6.1		2.8					*6.33*
Limonene																		
Methyl Alcohol			2.7	2.6		3.3		6.2				3.2						*3.60*
Pentane										2.6								*2.60*
Propane		2.8						4.3		4.7				3.6				*3.85*
propanol	6.9												2.1					*4.50*
Propene									6.2		2.5							*4.35*
Trisulfide, dipropyl																		
Undecane, 2,8-dimethyl-																		
Unknown																		
Unknown																		
Sum of TICs	29.50	8.80	2.70	5.90	5.40	46.40	18.30	68.80	96.80	10.30	40.40	10.30	12.80	6.30	0.00	0.00	0.00	*21.34*
Sum of TICs and TO-15 Compd	49.34	29.94	15.42	17.17	13.27	80.61	34.36	105.68	130.22	21.10	62.17	22.20	26.23	20.22	6.47	9.72	13.43	*44.85*

Table 3. Summary of VOC Information from TO-15 Analyses (Community and 300' Downwind)

					Acetone	Ethylbenzene	Trichlorofluoromethane	n-Heptane	n-Hexane	2,2,4-Trimethylpentane	tert-Butyl alcohol	Methylene chloride	Benzene	Styrene	1,1,2,2-tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	o-Xylene	m-Xylene & p-Xylene	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	4-Ethyltoluene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	TOTAL VOCs	TOTAL VOCs, Full TO-15, No 300'	TOTAL VOCs, Only 300'
Location	**ID**	**Date**	**GPS Coordinates**	**Summa Type**	5.0	0.20	0.20	0.50	0.50	0.50	2.0	0.50	0.20	0.20	0.20	0.20	1.0	0.20	1.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.0	1.0	0.50	0.20	0.40	0.50	0.20	0.20	0.20	0.20	0.50	0.40	0.50	0.20	0.20	0.20	0.20	0.20	0.20	**ppb**		
Cell Tower	SU-IBC120908	12/9/2008	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour	5.2	ND	0.22	0.10	0.12	0.039	0.082	2.8	0.180	ND	ND	ND	ND	0.16	ND	ND	ND	0.069	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	0.11	ND	ND	0.050	0.65	ND	ND	ND	ND	0.48	ND	ND	ND	**10.70**	10.70	
Campground	SU-IBG120908	12/9/2008	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour	6.6	ND	0.26	0.076	0.18	ND	0.091	5.2	0.140	ND	ND	ND	ND	0.15	ND	ND	ND	0.076	ND	ND	ND	ND	ND	0.60	ND	ND	ND	ND	0.11	ND	ND	0.048	0.64	ND	ND	ND	ND	0.49	ND	ND	ND	**14.66**	14.66	
School	SU-IBS120908	12/9/2008	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour	3.1	ND	0.23	0.059	0.13	ND	ND	3.3	0.190	ND	ND	ND	ND	0.21	ND	ND	ND	0.071	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	0.11	ND	ND	0.063	0.66	ND	ND	ND	ND	0.49	ND	ND	ND	**8.83**	8.83	
Wetland	SU-IBW120908	12/9/2008	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour	4.2	ND	0.24	0.061	0.11	ND	0.56	3.3	0.160	ND	ND	ND	ND	0.16	ND	ND	ND	0.066	ND	ND	ND	ND	ND	0.25	0.11	ND	ND	ND	0.078	ND	ND	ND	0.65	ND	ND	ND	ND	0.5	ND	ND	ND	**10.45**	10.45	
DW~ 300"	*SU-IBD120908*	*12/9/2008*	*N: 40° 40' 50.5" W: 81° 25' 44.7"*	*8 Hour*	*5.1*	*0.46*	*0.25*	*0.64*	*0.22*	*0.080*	*0.13*	*2.8*	*0.390*	*0.12*	*ND*	*0.14*	*0.47*	*2.9*	*ND*	*ND*	*0.054*	*0.072*	*0.17*	*ND*	*ND*	*0.30*	*1.1*	*2.7*	*0.16*	*ND*	*0.077*	*0.044*	*0.093*	*ND*	*ND*	*0.045*	*0.53*	*ND*	*0.14*	*ND*	*ND*	*0.65*	*ND*	*ND*	*ND*	***19.84***		*19.84*
Cell Tower	SU-C121108	12/11/2008	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	3.2	0.11	0.23	0.12	0.14	ND	ND	0.29	0.270	ND	ND	ND	ND	0.49	ND	ND	ND	0.071	0.23	ND	ND	0.13	0.39	0.4	ND	ND	0.084	ND	0.073	ND	ND	ND	0.58	ND	ND	ND	ND	0.47	ND	ND	ND	**7.28**	7.28	
Campground	SU-G121108	12/11/2008	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	2.5	0.075	0.22	0.11	0.13	ND	ND	0.56	0.270	ND	ND	0.045	ND	0.44	ND	ND	ND	0.070	0.19	ND	ND	0.11	0.29	0.27	ND	ND	0.069	ND	0.069	ND	ND	ND	0.52	ND	ND	0.18	ND	0.49	ND	ND	ND	**6.61**	6.61	
School	SU-S121108	12/11/2008	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	9.4	0.30	0.22	0.21	0.31	0.10	0.083	0.40	3.500	ND	ND	ND	ND	0.60	ND	ND	ND	0.069	0.24	ND	ND	0.11	0.44	0.65	0.047	ND	0.086	0.094	0.070	ND	ND	ND	0.56	ND	0.12	ND	ND	0.48	ND	ND	ND	**18.09**	18.09	
Wetland	SU-W121108	12/11/2008	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	1.8	0.10	0.23	0.11	0.18	0.053	ND	0.54	0.340	ND	ND	ND	ND	0.59	ND	ND	ND	0.075	ND	ND	ND	0.089	0.21	0.24	ND	ND	ND	ND	0.075	ND	ND	ND	0.58	ND	0.055	ND	ND	0.50	ND	ND	ND	**5.77**	5.77	
Cell Tower (Co-Located)	SU-COC121108	12/11/2008	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	1.9	0.11	0.25	0.11	0.16	0.044	ND	0.47	0.330	ND	ND	ND	ND	4.2	ND	ND	ND	0.074	0.12	ND	ND	0.11	0.28	0.32	ND	ND	ND	ND	0.071	ND	ND	ND	0.49	ND	ND	ND	ND	0.51	ND	ND	ND	**9.55**	9.55	
DW~ 300"	*SU-IBD121208*	*12/12/2008*	*N: 40° 40' 37.5" W: 81° 25' 38.5"*	*8 Hour*	*6.9*	*1.0*	*0.22*	*0.30*	*0.17*	*0.064*	*0.16*	*0.49*	*0.500*	*1.0*	*ND*	*0.066*	*0.57*	*2.4*	*ND*	*0.073*	*0.040*	*0.071*	*0.38*	*0.14*	*ND*	*0.50*	*1.8*	*2.8*	*0.16*	*ND*	*0.15*	*0.045*	*0.069*	*ND*	*ND*	*ND*	*0.57*	*ND*	*ND*	*ND*	*ND*	*0.50*	*ND*	*ND*	*ND*	***21.14***		*21.14*
Cell Tower	**SU-IBC121508**	12/15/2008	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour	2.5	ND	0.17	0.054	0.064	ND	0.070	0.12	0.120	ND	ND	0.11	ND	0.084	ND	ND	ND	0.067	ND	ND	ND	ND	ND	0.37	ND	ND	ND	ND	0.067	ND	ND	ND	0.48	ND	ND	ND	ND	0.46	ND	0.080	ND	**4.82**	4.82	
Campground	**SU-IBG121508**	12/15/2008	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour	7.5	ND	0.23	0.13	0.19	0.15	0.18	0.22	0.160	ND	ND	ND	ND	0.17	0.077	ND	ND	0.077	ND	ND	ND	ND	ND	1.2	0.26	ND	ND	0.062	0.094	ND	ND	ND	0.52	ND	ND	ND	ND	0.46	ND	ND	ND	**11.68**	11.68	
School	**SU-IBS121508**	12/15/2008	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour	3.6	ND	0.21	0.053	0.086	0.057	0.090	0.31	0.150	ND	ND	ND	ND	0.11	ND	ND	ND	0.074	ND	ND	ND	ND	ND	0.34	ND	ND	ND	0.042	0.080	ND	ND	ND	0.52	ND	ND	ND	ND	0.45	ND	ND	ND	**6.17**	6.17	
Wetland	**SU-IBW121508**	12/15/2008	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour	7.4	0.14	0.22	0.20	0.25	0.24	0.16	0.19	0.160	ND	ND	ND	ND	0.39	ND	ND	ND	0.071	0.080	ND	ND	0.11	0.26	1.6	0.23	ND	ND	0.078	0.15	ND	ND	0.048	0.48	ND	ND	ND	ND	0.46	ND	ND	ND	**12.92**	12.92	
DW~ 300"	***SU-IBD121508***	*12/15/2008*	*N: 40° 40' 51.4" W: 81° 25' 40.6"*	*8 Hour*	*7.5*	*0.12*	*0.23*	*0.15*	*0.12*	*ND*	*0.11*	*0.2*	*0.210*	*ND*	*0.23*	*ND*	*ND*	*0.63*	*ND*	*ND*	*0.23*	*0.082*	*ND*	*ND*	*ND*	*0.078*	*0.24*	*0.88*	*0.14*	*ND*	*0.076*	*0.097*	*0.099*	*ND*	*0.044*	*ND*	*0.73*	*ND*	*ND*	*ND*	*ND*	*0.52*	*ND*	*ND*	*ND*	***12.72***		*12.72*
Cell Tower	SU-C121708	12/17/2008	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	3.2	0.097	0.23	0.089	0.14	ND	0.13	0.85	0.28	ND	ND	ND	ND	0.36	ND	ND	ND	0.077	0.36	0.097	ND	0.14	0.34	0.31	ND	ND	0.17	0.14	0.11	ND	ND	ND	0.48	ND	ND	ND	ND	0.49	ND	ND	ND	**8.09**	8.09	
Campground	SU-G121708	12/17/2008	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	7.3	0.078	0.25	0.084	0.16	ND	0.19	0.65	0.30	ND	0.067	ND	ND	0.38	ND	ND	0.039	0.084	0.16	ND	ND	0.086	0.22	0.84	0.061	ND	0.079	0.064	0.11	ND	ND	ND	0.52	ND	ND	ND	ND	0.52	ND	ND	ND	**12.24**	12.24	
School	SU-S121708	12/17/2008	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	5.0	0.084	0.23	0.070	0.15	ND	0.098	0.98	0.25	ND	ND	ND	ND	0.33	ND	ND	ND	0.078	0.31	0.075	ND	0.12	0.33	0.51	ND	ND	0.12	0.052	0.095	ND	ND	ND	0.45	ND	ND	ND	ND	0.48	ND	ND	ND	**9.81**	9.81	
Wetland	SU-W121708	12/17/2008	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	5.0	0.075	0.26	0.088	0.17	ND	0.12	1.3	0.29	ND	ND	ND	ND	0.37	ND	ND	ND	0.087	0.23	0.076	ND	0.095	0.24	0.69	0.051	ND	0.098	0.067	0.11	ND	ND	ND	0.59	ND	ND	ND	ND	0.90	ND	ND	ND	**10.91**	10.91	
School (Co-Located)	SU-COS121708	12/17/2008	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	2.5	ND	0.20	ND	ND	ND	ND	0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.057	ND	ND	ND	ND	0.48	ND	ND	ND	ND	0.50	ND	ND	ND	**4.50**	4.50	
DW~ 300"	*SU-IBD121808*	*12/18/2008*	*N: 40° 40' 43.4" W: 81° 25' 52.2"*	*8 Hour*	*5.1*	*ND*	*0.24*	*ND*	*0.14*	*ND*	*0.12*	*0.34*	*0.32*	*ND*	*0.22*	*ND*	*0.22*	*0.19*	*ND*	*ND*	*1.5*	*0.075*	*ND*	*ND*	*ND*	*ND*	*ND*	*1.4*	*ND*	*ND*	*ND*	*0.077*	*0.11*	*ND*	*ND*	*0.039*	*0.53*	*ND*	*ND*	*ND*	*ND*	*0.54*	*ND*	*ND*	*0.11*	***11.27***		*11.27*
DW~ 300"	*SU-IBD010509*	*1/5/2009*	*N: 40° 40' 40.5" W: 81° 25' 37.6"*	*8 Hour*	*2.8*	*0.13*	*0.18*	*0.160*	*0.17*	*0.077*	*0.073*	*0.27*	*0.30*	*ND*	*ND*	*ND*	*ND*	*0.86*	*0.085*	*ND*	*ND*	*0.066*	*0.085*	*ND*	*ND*	*0.11*	*0.36*	*1.2*	*0.058*	*ND*	*ND*	*ND*	*0.082*	*ND*	*ND*	*ND*	*0.40*	*ND*	*ND*	*ND*	*ND*	*0.40*	*ND*	*ND*	*ND*	***7.87***	7.87	*7.87*
Cell Tower	SU-IBC010809	1/8/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour	2.4	ND	0.18	0.066	0.12	0.088	0.050	0.25	0.21	ND	ND	ND	ND	0.19	ND	ND	ND	0.071	ND	ND	ND	ND	ND	0.34	ND	ND	ND	ND	0.095	ND	ND	ND	0.70	ND	ND	ND	ND	0.39	ND	ND	ND	**5.15**	5.15	
Campground	SU-IBG010809	1/8/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour	3.0	ND	0.17	0.076	0.097	0.072	0.038	0.43	0.20	ND	ND	ND	ND	0.18	ND	ND	ND	0.067	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	0.088	ND	ND	ND	0.58	ND	ND	ND	ND	0.39	ND	ND	ND	**5.78**	5.78	
School	SU-IBS010809	1/8/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour	3.4	ND	0.19	0.061	0.094	0.046	ND	0.21	0.22	ND	ND	ND	ND	0.16	ND	ND	ND	0.062	ND	ND	ND	ND	ND	0.30	ND	ND	ND	ND	0.065	ND	ND	ND	0.50	ND	ND	ND	ND	0.41	ND	ND	ND	**5.72**	5.72	
Wetland	SU-IBW010809	1/8/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour	4.5	ND	0.20	0.083	0.12	ND	0.044	0.11	0.27	ND	ND	ND	ND	0.20	ND	ND	ND	0.070	ND	ND	ND	ND	ND	0.77	ND	ND	ND	ND	0.069	ND	ND	ND	0.49	ND	0.062	ND	ND	0.42	ND	ND	ND	**7.41**	7.41	
DW~ 300"	*SU-IBD010809*	*1/8/2009*	*N: 40° 40' 40.1" W: 81° 25' 36.4"*	*8 Hour*	*13.0*	*1.2*	*0.21*	*0.45*	*ND*	*0.099*	*0.35*	*0.25*	*0.89*	*0.14*	*ND*	*0.069*	*0.90*	*3.9*	*ND*	*ND*	*ND*	*0.064*	*0.54*	*0.21*	*ND*	*0.73*	*3.0*	*6.3*	*0.31*	*ND*	*0.23*	*0.033*	*0.065*	*ND*	*ND*	*ND*	*0.47*	*0.25*	*ND*	*ND*	*0.088*	*0.46*	*ND*	*ND*	*ND*	***34.21***		*34.21*
Cell Tower (BTEX)	SU-IBC011409	1/14/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		ND							0.23					0.16								ND	ND																			**0.39**		
Campground (BTEX)	SU-IBG011409	1/14/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.22					0.17								ND	ND																			**0.39**		
School (BTEX)	SU-IBS011409	1/14/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.24					0.082								ND	ND																			**0.32**		
Wetland (BTEX)	SU-IBW011409	1/14/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.20					0.15								ND	ND																			**0.35**		
DW~ 300"	*SU-IBD011409*	*1/14/2009*	*N: 40° 40' 43.3 " W: 81° 25' 52.6"*	*8 Hour*	*5.8*	*0.46*	*0.20*	*0.31*	*0.20*	*0.10*	*0.15*	*0.25*	*0.52*	*ND*	*ND*	*ND*	*0.34*	*1.3*	*ND*	*ND*	*ND*	*0.074*	*0.18*	*0.099*	*ND*	*0.29*	*1.1*	*3.2*	*0.11*	*ND*	*0.094*	*0.063*	*0.1*	*ND*	*ND*	*ND*	*0.60*	*ND*	*ND*	*ND*	*0.066*	*0.45*	*ND*	*ND*	*ND*	***16.06***		*16.06*
Cell Tower	SU-C011609	1/16/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	2.7	0.072	0.20	0.065	0.16	ND	0.055	0.42	0.32	ND	ND	ND	ND	0.27	ND	ND	ND	0.075	ND	ND	ND	ND	0.18	0.29	ND	ND	ND	0.048	0.082	ND	ND	ND	0.51	ND	ND	ND	ND	0.46	ND	ND	0.079	**5.99**	5.99	
Campground	SU-G011609	1/16/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	4.3	0.074	0.21	0.076	0.19	0.04	0.130	0.26	0.34	ND	ND	ND	ND	0.35	ND	ND	ND	0.075	ND	ND	ND	ND	ND	0.72	ND	ND	ND	0.17	0.096	ND	ND	ND	0.51	ND	ND	ND	ND	0.48	ND	ND	ND	**8.02**	8.02	
School	SU-S011609	1/16/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	ND	ND	0.22	ND	0.15	ND	ND	0.41	0.31	ND	ND	ND	ND	0.11	ND	ND	ND	0.074	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.076	0.098	ND	ND	0.049	0.57	ND	ND	ND	ND	0.47	ND	ND	ND	**2.54**	2.54	
Wetland	SU-W011609	1/16/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	2.7	ND	0.21	0.066	0.17	ND	0.046	0.25	0.26	ND	ND	ND	ND	0.21	ND	ND	ND	0.074	ND	ND	ND	ND	ND	0.36	ND	ND	ND	0.042	0.083	ND	ND	ND	0.55	ND	ND	ND	ND	0.48	ND	ND	ND	**5.50**	5.50	
Campground (Co-Located)	SU-COG011609	1/16/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	6.9	0.14	0.21	0.071	0.21	0.042	0.30	0.38	0.35	ND	ND	ND	ND	0.60	ND	ND	ND	0.075	0.11	ND	ND	0.22	0.31	1.4	0.077	ND	ND	5.1	0.096	ND	ND	ND	0.59	ND	ND	ND	ND	0.50	ND	ND	ND	**17.68**	17.68	
Cell Tower (BTEX)	SU-IBC012009	1/20/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		ND							0.35					0.27								ND	ND																			**0.62**		
Campground (BTEX)	SU-IBG012009	1/20/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.34					0.29								ND	ND																			**0.63**		
School (BTEX)	SU-IBS012009	1/20/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.37					0.38								ND	0.13																			**0.88**		
Wetland (BTEX)	SU-IBW012009	1/20/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.36					0.31								ND	ND																			**0.67**		
DW~ 300"	*SU-IBD012009*	*1/20/2009*	*N: 40° 40' 40.1" W: 81° 25' 37.0"*	*8 Hour*	*14*	*0.68*	*0.29*	*0.56*	*0.40*	*0.14*	*0.48*	*2.4*	*0.84*	*ND*	*ND*	*0.065*	*0.83*	*3.3*	*ND*	*ND*	*ND*	*0.072*	*0.19*	*0.076*	*ND*	*0.30*	*1.3*	*9.2*	*0.27*	*ND*	*0.079*	*0.10*	*0.094*	*ND*	*ND*	*ND*	*0.60*	*ND*	*ND*	*ND*	*ND*	*0.61*	*ND*	*ND*	*ND*	***36.88***		*36.88*
Cell Tower	SU-C012209	1/22/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	4.6	ND	0.21	0.073	0.13	ND	0.061	0.24	0.24	ND	ND	ND	ND	0.16	ND	ND	ND	0.067	ND	ND	ND	ND	ND	0.58	ND	ND	ND	ND	0.090	ND	ND	0.038	0.63	ND	ND	ND	ND	0.51	ND	ND	ND	**7.63**	7.63	
Campground	SU-G012209	1/22/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	3.7	ND	0.21	0.093	0.14	ND	0.050	0.64	0.44	ND	ND	ND	ND	0.18	ND	ND	ND	0.069	ND	ND	ND	ND	ND	0.46	ND	0.18	ND	0.057	0.092	0.15	ND	0.040	0.76	ND	ND	ND	ND	0.52	ND	ND	ND	**7.78**	7.78	
School	SU-S012209	1/22/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	4.5	0.13	0.21	0.19	0.31	0.13	0.058	0.42	0.59	ND	ND	ND	ND	0.66	ND	ND	ND	0.068	0.29	ND	ND	0.16	0.41	0.44	ND	ND	ND	0.035	0.085	ND	ND	ND	0.63	ND	0.049	ND	ND	0.51	ND	ND	ND	**9.88**	9.88	
Wetland	SU-W012209	1/22/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	9.2	ND	0.21	0.23	0.42	0.043	0.19	0.32	0.35	ND	ND	ND	0.063	0.29	ND	ND	ND	0.069	0.099	ND	ND	ND	0.12	0.93	0.050	ND	ND	ND	0.092	ND	ND	ND	0.92	ND	0.10	ND	ND	0.52	ND	ND	ND	**14.22**	14.22	
Wetland (Co-Located)	SU-COW012209	1/22/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	4.8	0.075	0.22	0.19	0.45	0.048	0.052	0.43	0.34	ND	ND	ND	ND	0.45	ND	ND	ND	0.070	0.19	ND	ND	0.11	0.28	0.51	ND	ND	0.070	ND	0.092	ND	ND	0.038	0.83	ND	0.088	ND	ND	0.52	ND	ND	ND	**9.85**	9.85	
DW~ 300"	*SU-IBD012309*	*1/23/2009*	*N: 40° 40' 50.8" W: 81° 25' 42.5"*	*8 Hour*	*18*	*0.15*	*0.22*	*0.54*	*0.54*	*0.16*	*0.40*	*0.78*	*0.94*	*ND*	*ND*	*0.13*	*0.93*	*1.8*	*ND*	*ND*	*0.084*	*0.069*	*ND*	*ND*	*0.11*	*ND*	*0.22*	*6.2*	*0.13*	*ND*	*ND*	*0.083*	*0.076*	*ND*	*0.036*	*ND*	*0.63*	*ND*	*0.44*	*ND*	*ND*	*0.63*	*0.050*	*0.069*	*ND*	***33.42***		*33.42*
Cell Tower (BTEX)	SU-IBC012609	1/26/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		ND							0.33					0.20								0.12	0.20																			**0.85**		
Campground (BTEX)	SU-IBG012609	1/26/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.33					0.24								ND	ND																			**0.57**		
School (BTEX)	SU-IBS012609	1/26/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.34					0.27								ND	0.12																			**0.73**		
Wetland (BTEX)	SU-IBW012609	1/26/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.31					0.20								ND	ND																			**0.51**		
DW~ 300"	*SU-IBD012609*	*1/26/2009*	*N: 40° 40' 40.5" W: 81° 25' 35.6"*	*8 Hour*	*3.6*	*0.090*	*0.21*	*0.16*	*0.31*	*0.044*	*0.059*	*0.19*	*2.0*	*ND*	*ND*	*ND*	*0.97*	*0.65*	*ND*	*ND*	*ND*	*0.068*	*ND*	*ND*	*ND*	*ND*	*0.13*	*1.0*	*ND*	*ND*	*ND*	*ND*	*0.066*	*ND*	*ND*	*ND*	*0.72*	*ND*	*ND*	*ND*	*ND*	*0.53*	*ND*	*ND*	*ND*	***10.80***		*10.80*
DW~ 300"	*SU-IBD012909*	*1/29/2009*	*N: 40° 40' 48.7" W: 81° 25' 34.5"*	*8 Hour*	*8.9*	*0.67*	*0.21*	*0.31*	*0.17*	*0.062*	*0.26*	*0.21*	*0.44*	*0.070*	*ND*	*ND*	*0.47*	*2.1*	*ND*	*ND*	*ND*	*0.071*	*0.35*	*0.15*	*ND*	*0.5*	*1.7*	*3.5*	*0.21*	*ND*	*0.14*	*0.055*	*0.069*	*ND*	*ND*	*ND*	*0.51*	*ND*	*0.067*	*ND*	*0.084*	*0.54*	*ND*	*ND*	*ND*	***21.77***		*21.77*
Cell Tower	SU-C020309	2/3/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	5.1	ND	0.20	0.095	0.13	ND	0.10	0.13	0.20	ND	ND	ND	ND	0.27	ND	ND	ND	0.070	ND	ND	ND	ND	0.15	0.64	ND	ND	ND	ND	0.070	ND	ND	ND	0.49	ND	ND	ND	ND	0.47	ND	ND	ND	**8.12**	8.12	
Campground	SU-G020309	2/3/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	2.1	ND	0.21	0.068	0.10	ND	ND	0.20	0.21	ND	ND	ND	ND	0.16	ND	ND	ND	0.073	ND	ND	ND	ND	ND	0.24	ND	ND	ND	ND	0.071	ND	ND	ND	0.58	ND	ND	ND	ND	0.49	ND	ND	ND	**4.50**	4.50	
School	SU-S020309	2/3/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	5.0	ND	0.21	0.11	0.11	ND	0.052	0.18	0.24	ND	ND	ND	ND	0.20	ND	ND	ND	0.075	0.088	ND	ND	ND	0.13	0.53	ND	ND	ND	ND	0.077	ND	ND	ND	0.61	ND	ND	ND	ND	0.51	ND	ND	ND	**8.12**	8.12	
Wetland	SU-W020309	2/3/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	24 Hour Comm	7.7	0.083	0.22	0.23	0.16	ND	0.510	0.18	0.24	ND	ND	ND	0.13	0.64	ND	ND	ND	0.074	0.15	ND	ND	0.083	0.22	1.4	0.12	ND	ND	0.18	0.072	ND	ND	ND	0.53	ND	ND	ND	ND	0.53	ND	ND	ND	**13.45**	13.45	
School (Co-Located)	SU-COS020309	2/3/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	2.1	ND	0.20	0.070	0.15	ND	ND	0.49	0.21	ND	ND	ND	ND	0.16	ND	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.061	ND	ND	ND	0.52	ND	ND	ND	ND	0.44	ND	ND	ND	**4.47**	4.47	
DW~ 300"	*SU-IBD020409*	*2/4/2009*	*N: 40° 40' 40.6" W: 81° 25' 35.6"*	*8 Hour*	*5.6*	*0.21*	*0.23*	*0.15*	*0.17*	*0.054*	*0.061*	*0.52*	*0.26*	*ND*	*ND*	*ND*	*0.16*	*0.85*	*ND*	*ND*	*ND*	*0.070*	*0.076*	*ND*	*ND*	*0.14*	*0.49*	*1.6*	*0.049*	*ND*	*ND*	*ND*	*0.069*	*ND*	*ND*	*ND*	*0.61*	*ND*	*ND*	*ND*	*ND*	*0.53*	*ND*	*ND*	*ND*	***11.90***		*11.90*
Cell Tower	SU-C020909	2/9/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	3.2	ND	0.21	0.11	0.20	ND	0.042	0.28	0.39	ND	ND	ND	ND	0.26	ND	ND	ND	0.074	0.075	ND	ND	ND	0.14	0.33	ND	ND	ND	ND	0.078	ND	ND	ND	0.61	ND	0.040	ND	ND	0.50	ND	ND	ND	**6.54**	6.54	
Campground	SU-G020909	2/9/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	3.9	ND	0.19	0.12	0.19	ND	0.045	0.37	0.36	ND	ND	ND	ND	0.31	ND	ND	ND	0.064	0.16	ND	ND	0.071	0.19	0.47	ND	ND	0.069	0.032	0.068	ND	ND	ND	0.48	ND	ND	ND	0.082	0.43	ND	ND	ND	**7.60**	7.60	
School	SU-S020909	2/9/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	39	0.18	0.21	0.76	0.41	0.095	2.1	1.6	0.45	ND	ND	ND	0.073	0.82	ND	ND	ND	0.062	0.58	0.13	ND	0.24	0.61	3.4	0.220	ND	0.27	0.048	0.072	ND	ND	ND	0.45	ND	0.10	ND	0.13	0.43	ND	ND	ND	**52.44**	52.44	
Campground (Co-Located)	SU-COG020909	2/9/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	3.2	0.16	0.25	0.12	0.36	ND	ND	2.1	0.39	ND	ND	ND	ND	0.56	ND	ND	ND	0.067	0.56	0.13	ND	0.24	0.61	0.39	ND	ND	0.17	ND	0.067	ND	ND	ND	0.52	ND	0.05	ND	ND	0.45	ND	ND	ND	**10.39**	10.39	
Cell Tower	SU-C021509	2/15/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	24 Hour Comm	4.2	ND	0.20	0.086	0.15	ND	0.048	0.18	0.28	ND	ND	ND	ND	0.16	ND	ND	ND	0.066	ND	ND	ND	ND	ND	0.49	ND	ND	ND	ND	0.070	ND	ND	ND	0.47	ND	ND	ND	ND	0.47	ND	ND	ND	**6.87**	6.87	
Campground	SU-G021509	2/15/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	24 Hour Comm	4.0	0.25	0.20	0.19	0.30	0.042	0.120	0.51	0.26	0.11	ND	0.05	ND	0.98	ND	ND	ND	0.066	ND	ND	ND	0.10	0.34	0.39	0.085	ND	ND	0.061	0.067	ND	ND	ND	0.82	ND	0.54	ND	ND	0.46	ND	ND	ND	**9.94**	9.94	
School	SU-G021509	2/15/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	24 Hour Comm	9.0	ND	0.23	0.19	0.11	ND	0.068	0.24	0.26	ND	ND	ND	ND	0.20	ND	ND	ND	0.078	0.098	ND	ND	ND	0.13	0.65	ND	ND	ND	ND	0.079	ND	ND	ND	0.62	ND	ND	ND	ND	0.53	ND	ND	ND	**12.48**	12.48	
DW~ 300"	*SU-IBD021609*	*2/16/2009*	*N: 40° 40' 35.4" W: 81° 25' 42.1"*	*8 Hour*	*5.6*	*0.31*	*0.21*	*0.25*	*0.15*	*0.057*	*0.13*	*0.21*	*0.32*	*ND*	*ND*	*ND*	*0.23*	*1.3*	*ND*	*ND*	*ND*	*0.069*	*0.19*	*0.079*	*ND*	*0.21*	*0.78*	*2.0*	*0.13*	*ND*	*ND*	*ND*	*0.067*	*ND*	*ND*	*ND*	*0.62*	*ND*	*ND*	*ND*	*ND*	*0.52*	*ND*	*ND*	*ND*	***13.43***		*13.43*
Cell Tower (BTEX)	SU-IBC022509	2/25/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		0.11							0.27					0.17								0.15	0.42																			**1.12**		
Campground (BTEX)	SU-IBG022509	2/25/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.26					0.20								ND	ND																			**0.46**		
School (BTEX)	SU-IBS022509	2/25/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.27					0.18								ND	ND																			**0.45**		
Wetland (BTEX)	SU-IBW022509	2/25/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.24					0.13								ND	ND																			**0.37**		
DW~ 300"	*SU-IBD022509*	*2/25/2009*	*N: 40° 40' 45.1" W: 81° 25' 52.3"*	*8 Hour*	*6.9*	*0.24*	*0.22*	*0.21*	*0.19*	*0.059*	*0.097*	*0.42*	*0.66*	*ND*	*ND*	*ND*	*0.31*	*0.78*	*ND*	*ND*	*ND*	*0.066*	*0.16*	*ND*	*ND*	*0.18*	*0.58*	*1.5*	*0.093*	*ND*	*ND*	*ND*	*0.078*	*ND*	*ND*	*ND*	*0.58*	*ND*	*0.065*	*ND*	*ND*	*0.53*	*ND*	*ND*	*ND*	***13.92***		*13.92*
Cell Tower (BTEX)	SU-IBC030309	3/3/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		ND							0.20					0.15								ND	ND																			**0.35**		
Campground (BTEX)	SU-IBG030309	3/3/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.20					0.28								ND	ND																			**0.48**		
School (BTEX)	SU-IBS030309	3/3/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.22					0.15								ND	ND																			**0.37**		
Wetland (BTEX)	SU-IBW030309	3/3/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.21					0.18								ND	ND																			**0.39**		
DW~ 300"	*SU-IBD030309*	*3/3/2009*	*N: 40° 40' 39.8" W: 81° 25' 35.5"*	*8 Hour*	*2.0*	*ND*	*0.27*	*0.12*	*0.16*	*ND*	*0.048*	*0.13*	*0.23*	*ND*	*ND*	*1.3*	*ND*	*0.20*	*ND*	*ND*	*0.19*	*0.075*	*ND*	*ND*	*ND*	*ND*	*ND*	*0.43*	*ND*	*ND*	*ND*	*ND*	*0.066*	*ND*	*ND*	*ND*	*0.64*	*ND*	*0.072*	*ND*	*ND*	*0.54*	*ND*	*ND*	*ND*	***6.47***		*6.47*
DW~ 300"	SU-IBD033009	3/30/2009	N: 40° 40' 40.8" W: 81° 25' 35.3"	8 Hour	5.3	0.24	0.19	0.093	0.084	ND	0.12	0.22	0.15	ND	ND	ND	0.13	0.54	ND	ND	ND	0.053	0.080	ND	ND	0.11	0.50	0.81	ND	ND	ND	ND	0.056	ND	ND	ND	0.56	ND	ND	ND	ND	0.48	ND	ND	ND	***9.72***		9.72
DW~ 300"	SU-IBD040209	4/2/2009	N: 40° 40' 39.1" W: 81° 25' 51.2"	8 Hour	3.1	0.28	0.31	0.27	0.28	0.087	0.13	0.21	2.2	ND	ND	ND	0.87	1.0	ND	ND	ND	0.082	0.20	0.11	ND	0.35	1.0	0.92	0.078	ND	0.076	0.033	0.10	ND	0.043	ND	0.94	ND	0.11	ND	ND	0.65	ND	ND	ND	***13.43***		13.43
Cell Tower (BTEX)	SU-IBC040209	4/2/2009	N: 40° 40' 12.756" W: 81° 25' 58.854"	8 Hour		ND							0.25					0.26								ND	0.29																			***0.80***		
Campground (BTEX)	SU-IBG040209	4/2/2009	N: 40° 41' 17.336" W: 81° 25' 02.681"	8 Hour		ND							0.24					ND								ND	ND																			***0.24***		
School (BTEX)	SU-IBS040209	4/2/2009	N: 40° 39' 09.864" W: 81° 27' 12.261"	8 Hour		ND							0.29					0.26								ND	ND																			***0.55***		
Wetland (BTEX)	SU-IBW040209	4/2/2009	N: 40° 40' 39.860" W: 81° 24' 39.082"	8 Hour		ND							0.20					ND								ND	ND																			***0.20***		
		Reporting Limit (1/2 RL used for statistics)		Average	5.77	0.25	0.22	0.17	0.19	0.08	0.18	0.71	0.39	0.29	0.17	0.22	0.45	0.58	0.08	0.07	0.31	0.07	0.22	0.11	0.11	0.19	0.51	1.23	0.13	0.18	0.12	0.24	0.08	0.15	0.04	0.05	0.58	0.25	0.13	0.18	0.09	0.50	0.05	0.07	0.09	8.69	9.76	*17.34*
	Italics	*300' Downwind Sample*		Max ppb	39	1.2	0.31	0.76	0.54	0.24	2.1	5.2	3.5	1	0.23	1.3	0.97	4.2	0.085	0.073	1.5	0.087	0.58	0.21	0.11	0.73	3	9.2	0.31	0.18	0.27	5.1	0.15	0.15	0.044	0.063	0.94	0.25	0.54	0.18	0.13	0.9	0.05	0.08	0.11	52.44	52.44	*36.876*
		Benzene		Min ppb	2.0	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.2	0.1	0.0	0.1	0.2	0.0	0.0	0.4	0.3	0.0	0.2	0.1	0.4	0.1	0.1	0.1	0.2	2.54	*6.5*
				Std. Deviation	5.279	0.261	0.025	0.149	0.099	0.045	0.301	0.964	0.462	0.357	0.075	0.384	0.321	0.806	N/A	N/A	0.493	0.007	0.139	0.039	N/A	0.142	0.551	1.644	0.077	N/A	0.057	0.904	0.017	N/A	0.004	0.007	0.108	N/A	0.140	N/A	0.021	0.074	N/A	0.006	0.016	8.887	7.28	*9.093*

ATTACHMENT C-2

TIER 3 (Stage C) AIR 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

April 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

April 29, 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. Over 1,472,228 VOC readings have been collected at the perimeter of the landfill during this monitoring period.

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
January 27, through April 28 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.

Real-Time Results

During the March 28, 2009 through April 28, 2009 monitoring period, approximately 217,008 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 2 times. The mean VOC concentrations collected at the perimeter of the landfill ranged from 0.01 ppm to 0.09 ppm. Table 2.0 summarizes the real-time data collected from March 28, 2009 through April 28, 2009.

Table 2.0 March 28, 2009 through April 28, Real Time Data Summary

Station	Analyte	Total VOC Readings Recorded	Trigger Level	Triggering events	Average Concentration
1	VOC	44,309	0.50	0	0.01 ppm
2	VOC	44,233	0.50	0	0.06 ppm
3	VOC	42,175	0.50	0	0.08 ppm
4	VOC	45,229	0.50	0	0.09 ppm
5	VOC	41,062	0.50	1	0.06 ppm

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

Summa Results

One SUMMA sample was collected during this monitoring period (Attachment B). With this sample and also the 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.

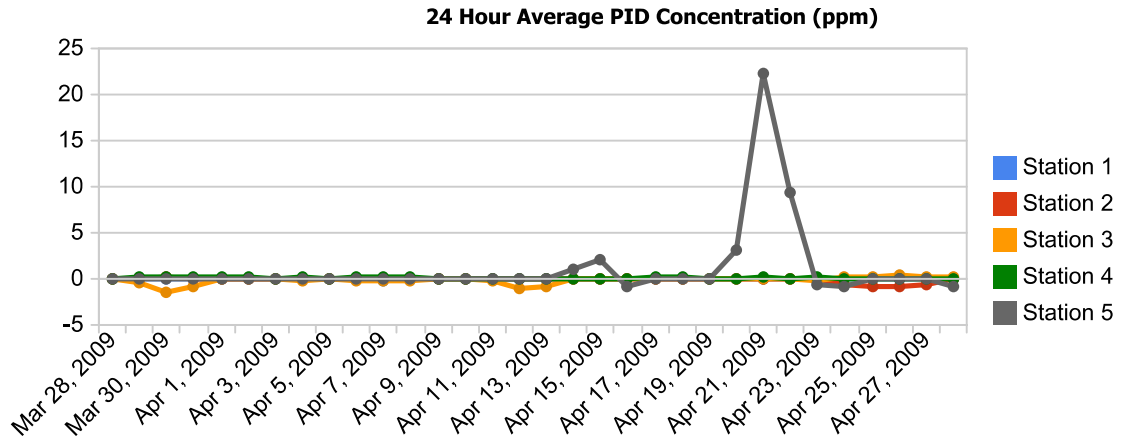
Attachment A

Custom Date Report

Start Date **End Date**

2009/03/28 Calendar 2009/04/28 Calendar

Save



Day	Station 1 (PID)	Station 2 (PID)	Station 3 (PID)	Station 4 (PID)	Station 5 (PID)
2009-03-28	0.02	0.08	0.04	0.09	0.05
2009-03-29	0.00	0.10	-0.42	0.11	0.05
2009-03-30	-0.00	0.12	-1.47	0.13	0.05
2009-03-31	-0.02	0.09	-0.80	0.16	0.05
2009-04-01	0.02	0.06	0.07	0.16	0.04
2009-04-02	0.03	0.05	0.08	0.11	0.05
2009-04-03	0.01	0.06	0.05	0.09	0.04
2009-04-04	0.00	0.06	-0.15	0.11	0.05
2009-04-05	0.02	0.06	-0.02	0.09	0.05
2009-04-06	-0.01	0.06	-0.18	0.12	0.04
2009-04-07	-0.24	0.06	-0.29	0.15	0.04
2009-04-08	-0.00	0.06	-0.13	0.11	0.05
2009-04-09	0.02	0.06	0.02	0.09	0.05
2009-04-10	-0.06	0.06	0.02	0.07	0.04
2009-04-11	0.00	0.06	-0.30	0.04	0.04
2009-04-12	0.00	0.06	-1.11	0.04	0.04
2009-04-13	-0.00	0.06	-0.87	0.04	0.05
2009-04-14	-0.00	0.06	0.03	0.04	1.08
2009-04-15	0.00	0.06	0.03	0.04	2.18
2009-04-16	0.02	0.06	-0.03	0.05	-0.91
2009-04-17	0.02	0.06	0.01	0.10	0.10
2009-04-18	0.03	0.04	0.07	0.23	0.10
2009-04-19	0.02	0.06	0.08	0.05	0.10

2009-04-20	0.00	0.06	0.07	0.04	3.06
2009-04-21	0.00	0.06	0.08	0.16	22.25
2009-04-22	-0.00	0.06	0.01	0.04	9.47
2009-04-23	0.01	0.06	-0.12	0.26	-0.61
2009-04-24	0.04	-0.70	0.20	0.06	-0.87
2009-04-25	0.05	-0.88	0.30	0.06	0.04
2009-04-26	0.05	-0.85	0.34	0.05	0.04
2009-04-27	0.04	-0.57	0.30	0.05	-0.07
2009-04-28	0.03	0.05	0.20	0.05	-0.75

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
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							

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)
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							
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		0.92*		-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

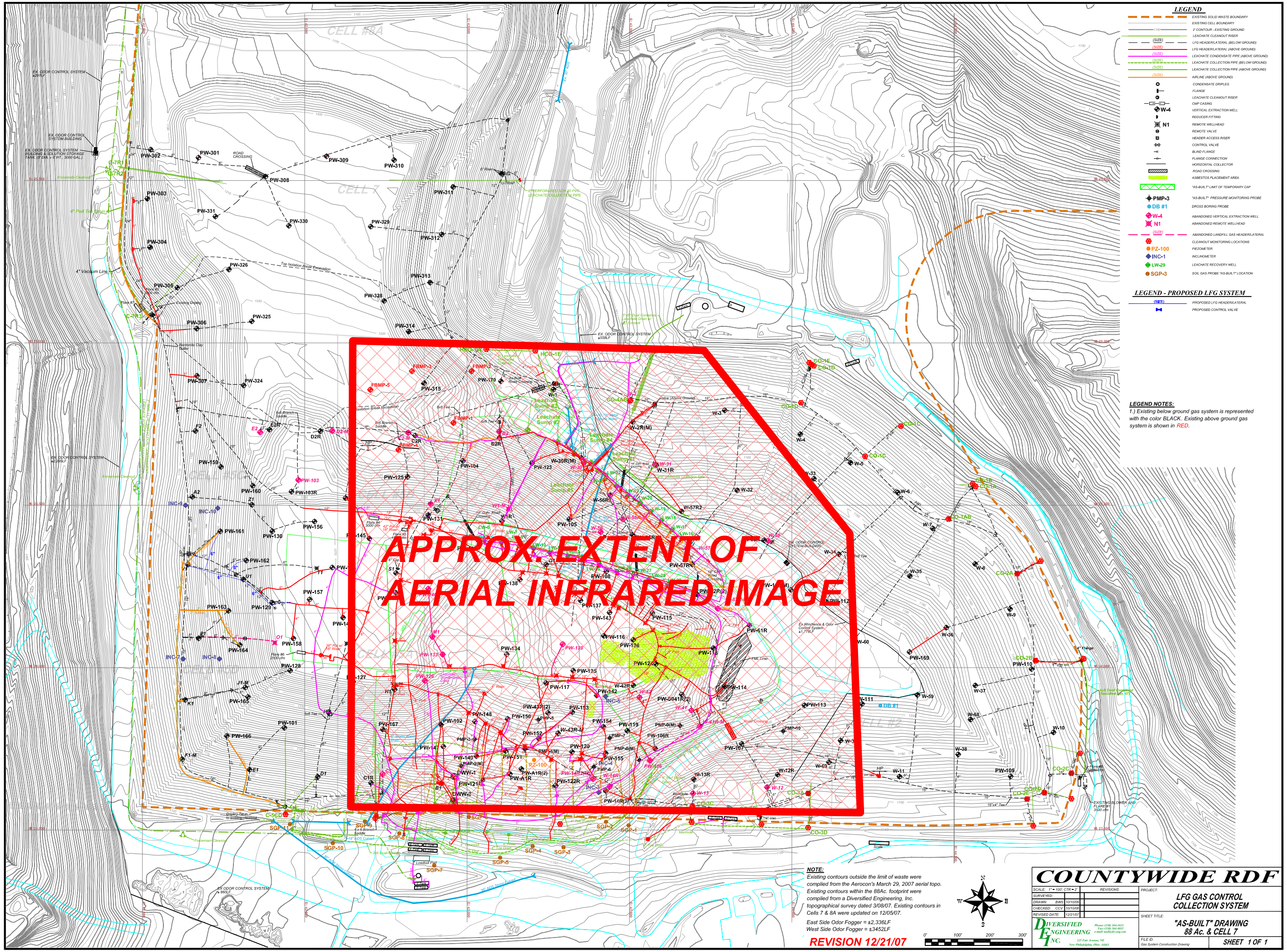
Stage C Integrated Air Sampling Summary

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)
ESOH0108-3-SC030	1/8/2009	Station 3	0.13 ppm	Current Sample						
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		0.78		-4.6
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		10.1

Current Sample- Sample that is at the station and ready to be collected
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

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
Leachate Sump #1
Leachate Sump #2
Leachate Sump #3
Leachate Sump #4
Leachate Sump #5
Leachate Sump #6
Leachate Sump #7
Leachate Sump #8
Leachate Sump #9
Leachate Sump #10
Leachate Sump #11
Leachate Sump #12
Leachate Sump #13
Leachate Sump #14
Leachate Sump #15
Leachate Sump #16
Leachate Sump #17
Leachate Sump #18
Leachate Sump #19
Leachate Sump #20
Leachate Sump #21
Leachate Sump #22
Leachate Sump #23
Leachate Sump #24
Leachate Sump #25
Leachate Sump #26
Leachate Sump #27
Leachate Sump #28
Leachate Sump #29
Leachate Sump #30
Leachate Sump #31
Leachate Sump #32
Leachate Sump #33
Leachate Sump #34
Leachate Sump #35
Leachate Sump #36
Leachate Sump #37
Leachate Sump #38
Leachate Sump #39
Leachate Sump #40
Leachate Sump #41
Leachate Sump #42
Leachate Sump #43
Leachate Sump #44
Leachate Sump #45
Leachate Sump #46
Leachate Sump #47
Leachate Sump #48
Leachate Sump #49
Leachate Sump #50
Leachate Sump #51
Leachate Sump #52
Leachate Sump #53
Leachate Sump #54
Leachate Sump #55
Leachate Sump #56
Leachate Sump #57
Leachate Sump #58
Leachate Sump #59
Leachate Sump #60
Leachate Sump #61
Leachate Sump #62
Leachate Sump #63
Leachate Sump #64
Leachate Sump #65
Leachate Sump #66
Leachate Sump #67
Leachate Sump #68
Leachate Sump #69
Leachate Sump #70
Leachate Sump #71
Leachate Sump #72
Leachate Sump #73
Leachate Sump #74
Leachate Sump #75
Leachate Sump #76
Leachate Sump #77
Leachate Sump #78
Leachate Sump #79
Leachate Sump #80
Leachate Sump #81
Leachate Sump #82
Leachate Sump #83
Leachate Sump #84
Leachate Sump #85
Leachate Sump #86
Leachate Sump #87
Leachate Sump #88
Leachate Sump #89
Leachate Sump #90
Leachate Sump #91
Leachate Sump #92
Leachate Sump #93
Leachate Sump #94
Leachate Sump #95
Leachate Sump #96
Leachate Sump #97
Leachate Sump #98
Leachate Sump #99
Leachate Sump #100
Leachate Sump #101
Leachate Sump #102
Leachate Sump #103
Leachate Sump #104
Leachate Sump #105
Leachate Sump #106
Leachate Sump #107
Leachate Sump #108
Leachate Sump #109
Leachate Sump #110
Leachate Sump #111
Leachate Sump #112
Leachate Sump #113
Leachate Sump #114
Leachate Sump #115
Leachate Sump #116
Leachate Sump #117
Leachate Sump #118
Leachate Sump #119
Leachate Sump #120
Leachate Sump #121
Leachate Sump #122
Leachate Sump #123
Leachate Sump #124
Leachate Sump #125
Leachate Sump #126
Leachate Sump #127
Leachate Sump #128
Leachate Sump #129
Leachate Sump #130
Leachate Sump #131
Leachate Sump #132
Leachate Sump #133
Leachate Sump #134
Leachate Sump #135
Leachate Sump #136
Leachate Sump #137
Leachate Sump #138
Leachate Sump #139
Leachate Sump #140
Leachate Sump #141
Leachate Sump #142
Leachate Sump #143
Leachate Sump #144
Leachate Sump #145
Leachate Sump #146
Leachate Sump #147
Leachate Sump #148
Leachate Sump #149
Leachate Sump #150
Leachate Sump #151
Leachate Sump #152
Leachate Sump #153
Leachate Sump #154
Leachate Sump #155
Leachate Sump #156
Leachate Sump #157
Leachate Sump #158
Leachate Sump #159
Leachate Sump #160
Leachate Sump #161
Leachate Sump #162
Leachate Sump #163
Leachate Sump #164
Leachate Sump #165
Leachate Sump #166
Leachate Sump #167
Leachate Sump #168
Leachate Sump #169
Leachate Sump #170
Leachate Sump #171
Leachate Sump #172
Leachate Sump #173
Leachate Sump #174
Leachate Sump #175
Leachate Sump #176
Leachate Sump #177
Leachate Sump #178
Leachate Sump #179
Leachate Sump #180
Leachate Sump #181
Leachate Sump #182
Leachate Sump #183
Leachate Sump #184
Leachate Sump #185
Leachate Sump #186
Leachate Sump #187
Leachate Sump #188
Leachate Sump #189
Leachate Sump #190
Leachate Sump #191
Leachate Sump #192
Leachate Sump #193
Leachate Sump #194
Leachate Sump #195
Leachate Sump #196
Leachate Sump #197
Leachate Sump #198
Leachate Sump #199
Leachate Sump #200
Leachate Sump #201
Leachate Sump #202
Leachate Sump #203
Leachate Sump #204
Leachate Sump #205
Leachate Sump #206
Leachate Sump #207
Leachate Sump #208
Leachate Sump #209
Leachate Sump #210
Leachate Sump #211
Leachate Sump #212
Leachate Sump #213
Leachate Sump #214
Leachate Sump #215
Leachate Sump #216
Leachate Sump #217
Leachate Sump #218
Leachate Sump #219
Leachate Sump #220
Leachate Sump #221
Leachate Sump #222
Leachate Sump #223
Leachate Sump #224
Leachate Sump #225
Leachate Sump #226
Leachate Sump #227
Leachate Sump #228
Leachate Sump #229
Leachate Sump #230
Leachate Sump #231
Leachate Sump #232
Leachate Sump #233
Leachate Sump #234
Leachate Sump #235
Leachate Sump #236
Leachate Sump #237
Leachate Sump #238
Leachate Sump #239
Leachate Sump #240
Leachate Sump #241
Leachate Sump #242
Leachate Sump #243
Leachate Sump #244
Leachate Sump #245
Leachate Sump #246
Leachate Sump #247
Leachate Sump #248
Leachate Sump #249
Leachate Sump #250
Leachate Sump #251
Leachate Sump #252
Leachate Sump #253
Leachate Sump #254
Leachate Sump #255
Leachate Sump #256
Leachate Sump #257
Leachate Sump #258
Leachate Sump #259
Leachate Sump #260
Leachate Sump #261
Leachate Sump #262
Leachate Sump #263
Leachate Sump #264
Leachate Sump #265
Leachate Sump #266
Leachate Sump #267
Leachate Sump #268
Leachate Sump #269
Leachate Sump #270
Leachate Sump #271
Leachate Sump #272
Leachate Sump #273
Leachate Sump #274
Leachate Sump #275
Leachate Sump #276
Leachate Sump #277
Leachate Sump #278
Leachate Sump #279
Leachate Sump #280
Leachate Sump #281
Leachate Sump #282
Leachate Sump #283
Leachate Sump #284
Leachate Sump #285
Leachate Sump #286
Leachate Sump #287
Leachate Sump #288
Leachate Sump #289
Leachate Sump #290
Leachate Sump #291
Leachate Sump #292
Leachate Sump #293
Leachate Sump #294
Leachate Sump #295
Leachate Sump #296
Leachate Sump #297
Leachate Sump #298
Leachate Sump #299
Leachate Sump #300
Leachate Sump #301
Leachate Sump #302
Leachate Sump #303
Leachate Sump #304
Leachate Sump #305
Leachate Sump #306
Leachate Sump #307
Leachate Sump #308
Leachate Sump #309
Leachate Sump #310
Leachate Sump #311
Leachate Sump #312
Leachate Sump #313
Leachate Sump #314
Leachate Sump #315
Leachate Sump #316
Leachate Sump #317
Leachate Sump #318
Leachate Sump #319
Leachate Sump #320
Leachate Sump #321
Leachate Sump #322
Leachate Sump #323
Leachate Sump #324
Leachate Sump #325
Leachate Sump #326
Leachate Sump #327
Leachate Sump #328
Leachate Sump #329
Leachate Sump #330
Leachate Sump #331
Leachate Sump #332
Leachate Sump #333
Leachate Sump #334
Leachate Sump #335
Leachate Sump #336
Leachate Sump #337
Leachate Sump #338
Leachate Sump #339
Leachate Sump #340
Leachate Sump #341
Leachate Sump #342
Leachate Sump #343
Leachate Sump #344
Leachate Sump #345
Leachate Sump #346
Leachate Sump #347
Leachate Sump #348
Leachate Sump #349
Leachate Sump #350
Leachate Sump #351
Leachate Sump #352
Leachate Sump #353
Leachate Sump #354
Leachate Sump #355
Leachate Sump #356
Leachate Sump #357
Leachate Sump #358
Leachate Sump #359
Leachate Sump #360
Leachate Sump #361
Leachate Sump #362
Leachate Sump #363
Leachate Sump #364
Leachate Sump #365
Leachate Sump #366
Leachate Sump #367
Leachate Sump #368
Leachate Sump #369
Leachate Sump #370
Leachate Sump #371
Leachate Sump #372
Leachate Sump #373
Leachate Sump #374
Leachate Sump #375
Leachate Sump #376
Leachate Sump #377
Leachate Sump #378
Leachate Sump #379
Leachate Sump #380
Leachate Sump #381
Leachate Sump #382
Leachate Sump #383
Leachate Sump #384
Leachate Sump #385
Leachate Sump #386
Leachate Sump #387
Leachate Sump #388
Leachate Sump #389
Leachate Sump #390
Leachate Sump #391
Leachate Sump #392
Leachate Sump #393
Leachate Sump #394
Leachate Sump #395
Leachate Sump #396
Leachate Sump #397
Leachate Sump #398
Leachate Sump #399
Leachate Sump #400
Leachate Sump #401
Leachate Sump #402
Leachate Sump #403
Leachate Sump #404
Leachate Sump #405
Leachate Sump #406
Leachate Sump #407
Leachate Sump #408
Leachate Sump #409
Leachate Sump #410
Leachate Sump #411
Leachate Sump #412
Leachate Sump #413
Leachate Sump #414
Leachate Sump #415
Leachate Sump #416
Leachate Sump #417
Leachate Sump #418
Leachate Sump #419
Leachate Sump #420
Leachate Sump #421
Leachate Sump #422
Leachate Sump #423
Leachate Sump #424
Leachate Sump #425
Leachate Sump #426
Leachate Sump #427
Leachate Sump #428
Leachate Sump #429
Leachate Sump #430
Leachate Sump #431
Leachate Sump #432
Leachate Sump #433
Leachate Sump #434
Leachate Sump #435
Leachate Sump #436
Leachate Sump #437
Leachate Sump #438
Leachate Sump #439
Leachate Sump #440
Leachate Sump #441
Leachate Sump #442
Leachate Sump #443
Leachate Sump #444
Leachate Sump #445
Leachate Sump #446
Leachate Sump #447
Leachate Sump #448
Leachate Sump #449
Leachate Sump #450
Leachate Sump #451
Leachate Sump #452
Leachate Sump #453
Leachate Sump #454
Leachate Sump #455
Leachate Sump #456
Leachate Sump #457
Leachate Sump #458
Leachate Sump #459
Leachate Sump #460
Leachate Sump #461
Leachate Sump #462
Leachate Sump #463
Leachate Sump #464
Leachate Sump #465
Leachate Sump #466
Leachate Sump #467
Leachate Sump #468
Leachate Sump #469
Leachate Sump #470
Leachate Sump #471
Leachate Sump #472
Leachate Sump #473
Leachate Sump #474
Leachate Sump #475
Leachate Sump #476
Leachate Sump #477
Leachate Sump #478
Leachate Sump #479
Leachate Sump #480
Leachate Sump #481
Leachate Sump #482
Leachate Sump #483
Leachate Sump #484
Leachate Sump #485
Leachate Sump #486
Leachate Sump #487
Leachate Sump #488
Leachate Sump #489
Leachate Sump #490
Leachate Sump #491
Leachate Sump #492
Leachate Sump #493
Leachate Sump #494
Leachate Sump #495
Leachate Sump #496
Leachate Sump #497
Leachate Sump #498
Leachate Sump #499
Leachate Sump #500
Leachate Sump #501
Leachate Sump #502
Leachate Sump #503
Leachate Sump #504
Leachate Sump #505
Leachate Sump #506
Leachate Sump #507
Leachate Sump #508
Leachate Sump #509
Leachate Sump #510
Leachate Sump #511
Leachate Sump #512
Leachate Sump #513
Leachate Sump #514
Leachate Sump #515
Leachate Sump #516
Leachate Sump #517
Leachate Sump #518
Leachate Sump #519
Leachate Sump #520
Leachate Sump #521
Leachate Sump #522
Leachate Sump #523
Leachate Sump #524
Leachate Sump #525
Leachate Sump #526
Leachate Sump #527
Leachate Sump #528
Leachate Sump #529
Leachate Sump #530
Leachate Sump #531
Leachate Sump #532
Leachate Sump #533
Leachate Sump #534
Leachate Sump #535
Leachate Sump #536
Leachate Sump #537
Leachate Sump #538
Leachate Sump #539
Leachate Sump #540
Leachate Sump #541
Leachate Sump #542
Leachate Sump #543
Leachate Sump #544
Leachate Sump #545
Leachate Sump #546
Leachate Sump #547
Leachate Sump #548
Leachate Sump #549
Leachate Sump #550
Leachate Sump #551
Leachate Sump #552
Leachate Sump #553
Leachate Sump #554
Leachate Sump #555
Leachate Sump #556
Leachate Sump #557
Leachate Sump #558
Leachate Sump #559
Leachate Sump #560
Leachate Sump #561
Leachate Sump #562
Leachate Sump #563
Leachate Sump #564
Leachate Sump #565
Leachate Sump #566
Leachate Sump #567
Leachate Sump #568
Leachate Sump #569
Leachate Sump #570
Leachate Sump #571
Leachate Sump #572
Leachate Sump #573
Leachate Sump #574
Leachate Sump #575
Leachate Sump #576
Leachate Sump #577
Leachate Sump #578
Leachate Sump #579
Leachate Sump #580
Leachate Sump #581
Leachate Sump #582
Leachate Sump #583
Leachate Sump #584
Leachate Sump #585
Leachate Sump #586
Leachate Sump #587
Leachate Sump #588
Leachate Sump #589
Leachate Sump #590
Leachate Sump #591
Leachate Sump #592
Leachate Sump #593
Leachate Sump #594
Leachate Sump #595
Leachate Sump #596
Leachate Sump #597
Leachate Sump #598
Leachate Sump #599
Leachate Sump #600
Leachate Sump #601
Leachate Sump #602
Leachate Sump #603
Leachate Sump #604
Leachate Sump #605
Leachate Sump #606
Leachate Sump #607
Leachate Sump #608
Leachate Sump #609
Leachate Sump #610
Leachate Sump #611
Leachate Sump #612
Leachate Sump #613
Leachate Sump #614
Leachate Sump #615
Leachate Sump #616
Leachate Sump #617
Leachate Sump #618
Leachate Sump #619
Leachate Sump #620
Leachate Sump #621
Leachate Sump #622
Leachate Sump #623
Leachate Sump #624
Leachate Sump #625
Leachate Sump #626
Leachate Sump #627
Leachate Sump #628
Leachate Sump #629
Leachate Sump #630
Leachate Sump #631
Leachate Sump #632
Leachate Sump #633
Leachate Sump #634
Leachate Sump #635
Leachate Sump #636
Leachate Sump #637
Leachate Sump #638
Leachate Sump #639
Leachate Sump #640
Leachate Sump #641
Leachate Sump #642
Leachate Sump #643
Leachate Sump #644
Leachate Sump #645
Leachate Sump #646
Leachate Sump #647
Leachate Sump #648
Leachate Sump #649
Leachate Sump #650
Leachate Sump #651
Leachate Sump #652
Leachate Sump #653
Leachate Sump #654
Leachate Sump #655
Leachate Sump #656
Leachate Sump #657
Leachate Sump #658
Leachate Sump #659
Leachate Sump #660
Leachate Sump #661
Leachate Sump #662
Leachate Sump #663
Leachate Sump #664
Leachate Sump #665
Leachate Sump #666
Leachate Sump #667
Leachate Sump #668
Leachate Sump #669
Leachate Sump #670
Leachate Sump #671
Leachate Sump #672
Leachate Sump #673
Leachate Sump #674
Leachate Sump #675
Leachate Sump #676
Leachate Sump #677
Leachate Sump #678
Leachate Sump #679
Leachate Sump #680
Leachate Sump #681
Leachate Sump #682
Leachate Sump #683
Leachate Sump #684
Leachate Sump #685
Leachate Sump #686
Leachate Sump #687
Leachate Sump #688
Leachate Sump #689
Leachate Sump #690
Leachate Sump #691
Leachate Sump #692
Leachate Sump #693
Leachate Sump #694
Leachate Sump #695
Leachate Sump #696
Leachate Sump #697
Leachate Sump #698
Leachate Sump #699
Leachate Sump #700
Leachate Sump #701
Leachate Sump #702
Leachate Sump #703
Leachate Sump #704
Leachate Sump #705
Leachate Sump #706
Leachate Sump #707
Leachate Sump #708
Leachate Sump #709
Leachate Sump #710
Leachate Sump #711
Leachate Sump #712
Leachate Sump #713
Leachate Sump #714
Leachate Sump #715
Leachate Sump #716
Leachate Sump #717
Leachate Sump #718
Leachate Sump #719
Leachate Sump #720
Leachate Sump #721
Leachate Sump #722
Leachate Sump #723
Leachate Sump #724
Leachate Sump #725
Leachate Sump #726
Leachate Sump #727
Leachate Sump #728
Leachate Sump #729
Leachate Sump #730
Leachate Sump #731
Leachate Sump #732
Leachate Sump #733
Leachate Sump #734
Leachate Sump #735
Leachate Sump #736
Leachate Sump #737
Leachate Sump #738
Leachate Sump #739
Leachate Sump #740
Leachate Sump #741
Leachate Sump #742
Leachate Sump #743
Leachate Sump #744
Leachate Sump #745
Leachate Sump #746
Leachate Sump #747
Leachate Sump #748
Leachate Sump #749
Leachate Sump #750
Leachate Sump #751
Leachate Sump #752
Leachate Sump #753
Leachate Sump #754
Leachate Sump #755
Leachate Sump #756
Leachate Sump #757
Leachate Sump #758
Leachate Sump #759
Leachate Sump #760
Leachate Sump #761
Leachate Sump #762
Leachate Sump #763
Leachate Sump #764
Leachate Sump #765
Leachate Sump #766
Leachate Sump #767
Leachate Sump #768
Leachate Sump #769
Leachate Sump #770
Leachate Sump #771
Leachate Sump #772
Leachate Sump #773
Leachate Sump #774
Leachate Sump #775
Leachate Sump #776
Leachate Sump #777
Leachate Sump #778
Leachate Sump #779
Leachate Sump #780
Leachate Sump #781
Leachate Sump #782
Leachate Sump #783
Leachate Sump #784
Leachate Sump #785
Leachate Sump #786
Leachate Sump #787
Leachate Sump #788
Leachate Sump #789
Leachate Sump #790
Leachate Sump #791
Leachate Sump #792
Leachate Sump #793
Leachate Sump #794
Leachate Sump #795
Leachate Sump #796
Leachate Sump #797
Leachate Sump #798
Leachate Sump #799
Leachate Sump #800
Leachate Sump #801
Leachate Sump #802
Leachate Sump #803
Leachate Sump #804
Leachate Sump #805
Leachate Sump #806
Leachate Sump #807
Leachate Sump #808
Leachate Sump #809
Leachate Sump #810
Leachate Sump #811
Leachate Sump #812
Leachate Sump #813
Leachate Sump #814
Leachate Sump #815
Leachate Sump #816
Leachate Sump #817
Leachate Sump #818
Leachate Sump #819
Leachate Sump #820
Leachate Sump #821
Leachate Sump #822
Leachate Sump #823
Leachate Sump #824
Leachate Sump #825
Leachate Sump #826
Leachate Sump #827
Leachate Sump #828
Leachate Sump #829
Leachate Sump #830
Leachate Sump #831
Leachate Sump #832
Leachate Sump #833
Leachate Sump #834
Leachate Sump #835
Leachate Sump #836
Leachate Sump #837
Leachate Sump #838
Leachate Sump #839
Leachate Sump #840
Leachate Sump #841
Leachate Sump #842
Leachate Sump #843
Leachate Sump #844
Leachate Sump #845
Leachate Sump #846
Leachate Sump #847
Leachate Sump #848
Leachate Sump #849
Leachate Sump #850
Leachate Sump #851
Leachate Sump #852
Leachate Sump #853
Leachate Sump #854
Leachate Sump #855
Leachate Sump #856
Leachate Sump #857
Leachate Sump #858
Leachate Sump #859
Leachate Sump #860
Leachate Sump #861
Leachate Sump #862
Leachate Sump #863
Leachate Sump #864
Leachate Sump #865
Leachate Sump #866
Leachate Sump #867
Leachate Sump #868
Leachate Sump #869
Leachate Sump #870
Leachate Sump #871
Leachate Sump #872
Leachate Sump #873
Leachate Sump #874
Leachate Sump #875
Leachate Sump #876
Leachate Sump #877
Leachate Sump #878
Leachate Sump #879
Leachate Sump #880
Leachate Sump #881
Leachate Sump #882
Leachate Sump #883
Leachate Sump #884
Leachate Sump #885
Leachate Sump #886
Leachate Sump #887
Leachate Sump #888
Leachate Sump #889
Leachate Sump #890
Leachate Sump #891
Leachate Sump #892
Leachate Sump #893
Leachate Sump #894
Leachate Sump #895
Leachate Sump #896
Leachate Sump #897
Leachate Sump #898
Leachate Sump #899
Leachate Sump #900
Leachate Sump #901
Leachate Sump #902
Leachate Sump #903
Leachate Sump #904
Leachate Sump #905
Leachate Sump #906
Leachate Sump #907
Leachate Sump #908
Leachate Sump #909
Leachate Sump #910
Leachate Sump #911
Leachate Sump #912
Leachate Sump #913
Leachate Sump #914
Leachate Sump #915
Leachate Sump #916
Leachate Sump #917
Leachate Sump #918
Leachate Sump #919
Leachate Sump #920
Leachate Sump #921
Leachate Sump #922
Leachate Sump #923
Leachate Sump #924
Leachate Sump #925
Leachate Sump #926
Leachate Sump #927
Leachate Sump #928
Leachate Sump #929
Leachate Sump #930
Leachate Sump #931
Leachate Sump #932
Leachate Sump #933
Leachate Sump #934
Leachate Sump #935
Leachate Sump #936
Leachate Sump #937
Leachate Sump #938
Leachate Sump #939
Leachate Sump #940
Leachate Sump #941
Leachate Sump #942
Leachate Sump #943
Leachate Sump #944
Leachate Sump #945
Leachate Sump #946
Leachate Sump #947
Leachate Sump #948
Leachate Sump #949
Leachate Sump #950
Leachate Sump #951
Leachate Sump #952
Leachate Sump #953
Leachate Sump #954
Leachate Sump #955
Leachate Sump #956
Leachate Sump #957
Leachate Sump #958
Leachate Sump #959
Leachate Sump #960
Leachate Sump #961
Leachate Sump #962
Leachate Sump #963
Leachate Sump #964
Leachate Sump #965
Leachate Sump #966
Leachate Sump #967
Leachate Sump #968
Leachate Sump #969
Leachate Sump #970
Leachate Sump #971
Leachate Sump #972
Leachate Sump #973
Leachate Sump #974
Leachate Sump #975
Leachate Sump #976
Leachate Sump #977
Leachate Sump #978
Leachate Sump #979
Leachate Sump #980
Leachate Sump #981
Leachate Sump #982
Leachate Sump #983
Leachate Sump #984
Leachate Sump #985
Leachate Sump #986
Leachate Sump #987
Leachate Sump #988
Leachate Sump #989
Leachate Sump #990
Leachate Sump #991
Leachate Sump #992
Leachate Sump #993
Leachate Sump #994
Leachate Sump #995
Leachate Sump #996
Leachate Sump #997
Leachate Sump #998
Leachate Sump #999
Leachate Sump #1000
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

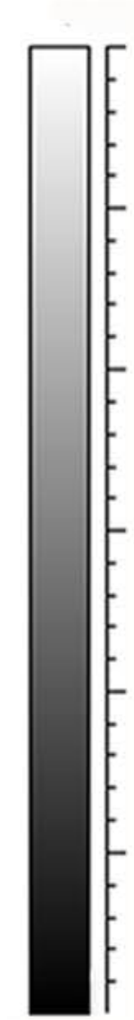
PREDICTIVE SERVICE®

safeguarding your future®

Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 3/18/2009

154
84
105
44
36
61
36
105
88
146
41
80
48
68
44

AMBIENT TEMPERATURE AT TIME OF IMAGE WAS 42 DEG. F



PREDICTIVE SERVICE®

safeguarding your future®

Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 4/25/2009

Traces of leachate and gas collected in the subcap collectors as part of the "Deep Trench" work.

Ambient temperature at time of image was 64 Deg. F

157
95
120
61
65
87
57
73
94
151
59
70
60
88
56