



Countywide Recycling & Disposal Facility

Remediation Unit

**Monthly Progress Report
Of
Operations, Monitoring & Maintenance Activities**

October 2010

Prepared By:

Countywide Recycling & Disposal Facility

Remediation Unit

3619 Gracemont Street S.W.,

East Sparta, Ohio

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Introduction

This document provides a monthly report of activities conducted in October 2010, as is required by the Operations, Monitoring, and Maintenance (OM&M) Plan. The OM&M plan was developed for the facility and adopted by the Ohio Environmental Protection Agency (OEPA) on September 30, 2009. The primary objectives of the monitoring portion of this plan are as follows:

1. Monitor status/progression of the reaction.
2. Monitor characteristics of leachate and gas.
3. Track settlement and slope movement/stability of waste mass and perimeter berms.
4. Monitor exposure conditions for engineered components.
5. Determine when conditions are suitable for composite capping.
6. Assess conditions requiring notification, repair, further evaluation or corrective action.
7. Provide a summary of monitoring and data collection, relevant activities conducted since the prior report, trigger events, and conditions which may require additional non-routine activities or investigation.

It should be noted that the OM&M Plan requires inspections, routine maintenance, and other activities that are not required to be presented in this submission. These activities are documented as required, and records are retained in the OM&M Managers office.

1. Monthly Summary Narrative

During the month of October, all daily, weekly, and monthly tasks were completed as required. The quarterly aerial infrared scan was also completed in October.

2. New Construction

No new construction is currently required or planned.

3. Major Non-Routine Maintenance, Repairs or Events

Routine maintenance and repairs of the temporary cap, leachate, and gas systems were completed during the month of October. During October, the following non-routine maintenance/repair items were completed:

- Fire-break monitoring point (FBMP) 14, located on the plateau of Cell 5C, was removed to eliminate an odor source at this location. The FBMP's are not required to be monitored, and the majority of the other FBMP's were removed earlier this year.
- Two prior abandoned wells were cut and capped below grade to eliminate FML boots which were generating odors.
- The flare tips and stack drains at Flares 7 and 10 were cleaned during October to maintain consistent operation.
- An advanced level of effort was required in the area of temp cap repairs and boot maintenance due to effects of changing ambient air temperature on the temporary cap.

Countywide intends to replace/redrill up to nine gas extraction wells on the Remediation Unit in January 2011 in conjunction with the South Slope Relocation Project. An additional seven wells will be replaced as part of the relocation project.

Countywide is also considering replacement of temporary cap as necessary based upon age and condition. This work would also be completed in conjunction with the South Slope Relocation Project.

4. New Trigger Events

Settlement

Areas of 2% or greater annualized settlement are depicted on the monthly settlement survey maps. Per the OM&M Plan, an exceedance of this settlement rate should only be considered a trigger if it occurs in a location where it had not been exceeded in the previous event. The majority, if not all, of the areas exceeding the settlement rate in October have exceeded the trigger in prior months.

Areas along the toe of the waste mass have consistently shown false triggers due to the accuracy limits of the survey equipment and thickness of waste mass. These instances have been discussed on an ongoing basis during Team Countywide meetings. Upon extensive review and discussion, it has been mutually agreed upon that these values do not represent cause for immediate concern. Pin and plate monitoring along the toe of slope and near the waste limits supports that there is limited settlement/movement in these areas.

The settlement data across the remainder of the facility was evaluated and is within the ranges and trends observed in prior months. The rate of settlement per day also appears to be within typical ranges and trends. There does not appear to be any anomalies or significant excursions outside the trends within the settlement data set. The settlement data and pin and plate data do not suggest that the settlement observed should cause concern from a slope stability or engineering control integrity standpoint.

Pin/Plate Monitoring

As defined by the OM&M Plan, a vertical trigger for pin and plate movement consists of a change of 0.05 feet or greater from the original elevation, which was measured in October 2009. During the month of October, vertical triggers were observed for monitoring plate MP-4, which showed a change of 0.06 feet from the original baseline elevation during each weekly monitoring event in October.

It should be noted that this plate has exhibited very slight changes from week to week based upon weekly monitoring events prior to these triggers. The data for these points, presented in Attachment 4, is within the ranges that have been observed in the past. The data does not represent an excursion from the normal trends observed, nor do the plates appear to be exhibiting movement that could cause concern from a slope stability standpoint. For perspective the plates are showing six-hundredths of a difference from the original elevation, which was measured a year ago in October 2010. Republic does not believe that additional evaluation or monitoring beyond the weekly monitoring is required.

5. Investigation Results from Previous Trigger Events

It was agreed upon between Republic and the Agencies that the values resulting in triggers during the September 2010 monitoring period were consistent with ranges and trends previously reflected, and represent no significant anomalies when compared to prior ongoing trends. The analysis of these triggers did not prompt any additional measures beyond the requirements of the OM&M Plan and ongoing activities.

6. Trend Graphs and Drawings

The graphs, tables, and figures required by the OM&M Plan are included in the attachments to this report. Due to the vast number of these and the detail that they provide, a full written summary is not provided in this document. The data will be discussed in depth at the Team Countywide Meeting. The October monitoring data is generally within the ranges and trending of that observed in prior months.

7. Review of Potential Need to Extend Temporary FML Cap

Currently, the Remediation Unit consists of approximately 18 acres which do not have a temporary cap. Volume 1, Section 7.1 of the OM&M Plan details conditions which would initiate an assessment which could require installation of temporary cap in this area. Such conditions include;

- Uncontrollable odor or fugitive emissions,
- Unusual settlement (Incremental settlement greater than 2% per year),
- Atypical or uncontrollable leachate outbreaks,
- Methane/carbon dioxide ratio less than 1.0,
- Maximum wellhead temperatures greater than 150°F,
- Maximum carbon monoxide greater than 100 ppmv.

At this time, the conditions observed in this area supplemented by the data collected during monitoring and inspections do not indicate the need for expansion of the temporary cap.

8. Petitions to Perform Work

The monitoring and inspections conducted during the operating period do not indicate the need for additional work which would require approval. As such, there are no petitions to perform such work at this time.

9. Proposed OM&M Plan Revisions

In November 2010, Republic received approval for revisions to the OM&M Plan, which included changes in frequency in some areas of data collection and elimination of others. These changes will be reflected in November 2010 data collection and monthly reporting.

10. Odor Summary/Complaints

During the month of October, there were four odor complaints which were received by Republic Services. These complaints were investigated real-time, and the odors could not be confirmed.



11/17/10

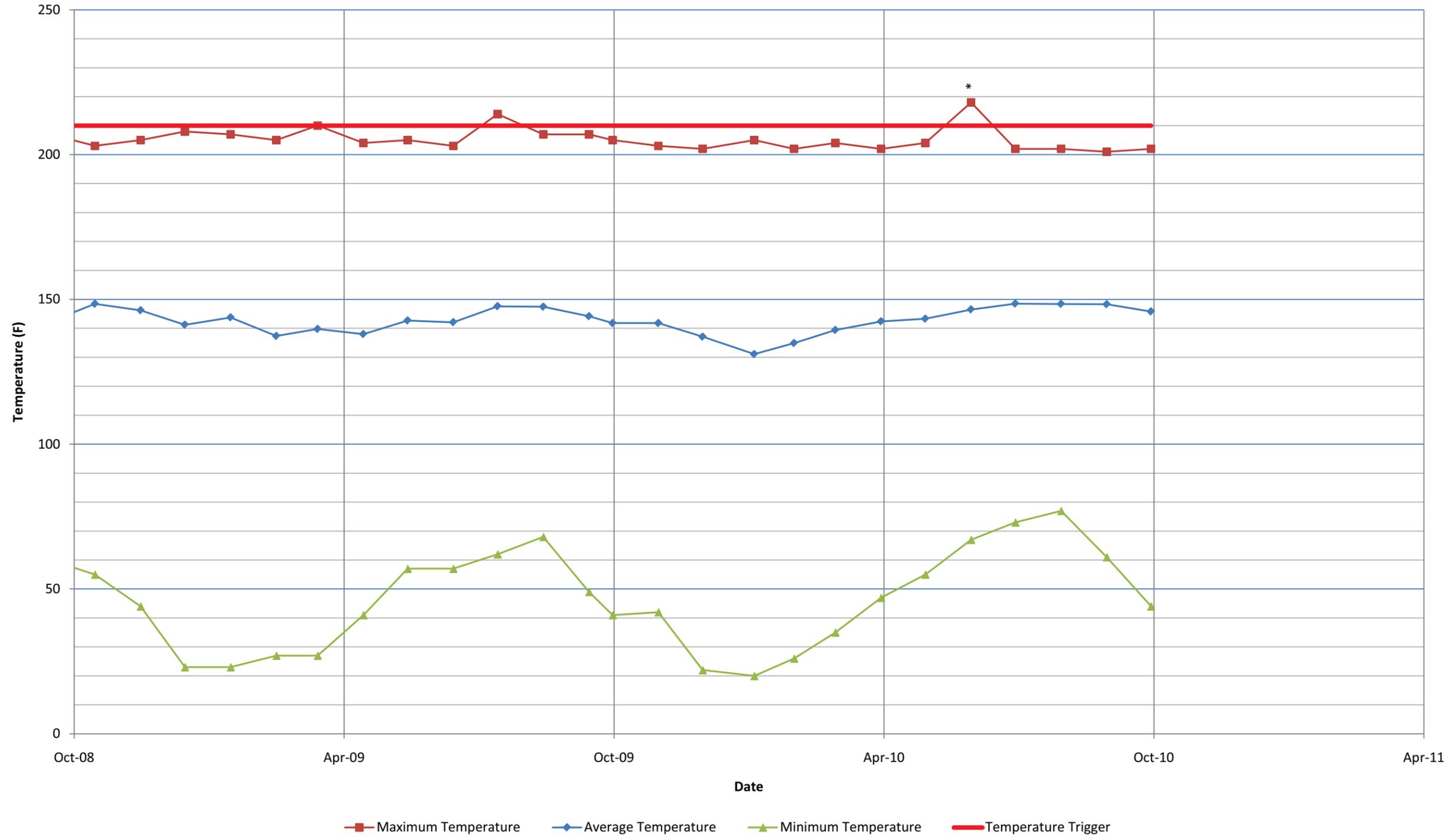
Michael Darnell
OM&M Manager

Date

Attachment 1

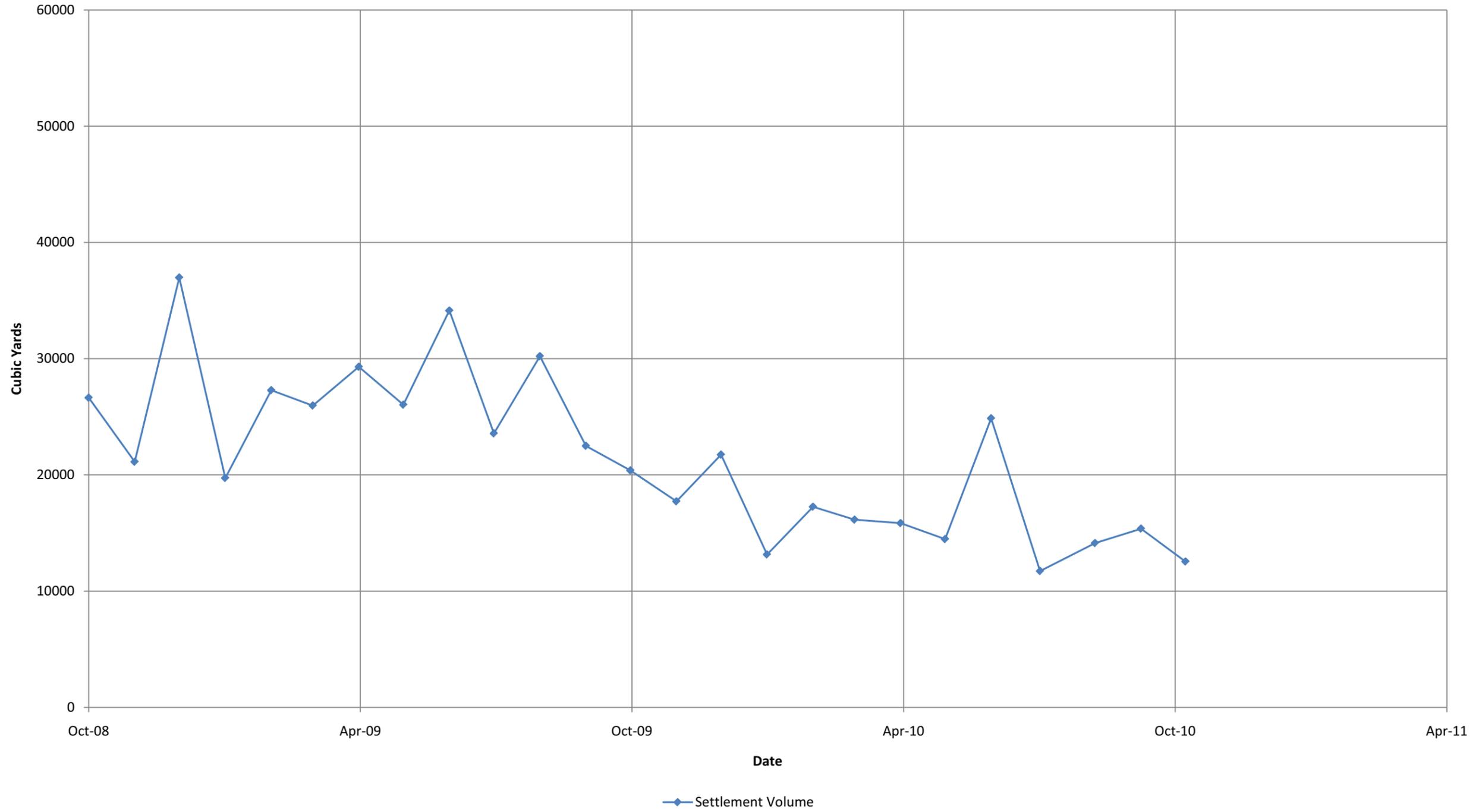
Graphs

Graph 1 Wellhead Temperature



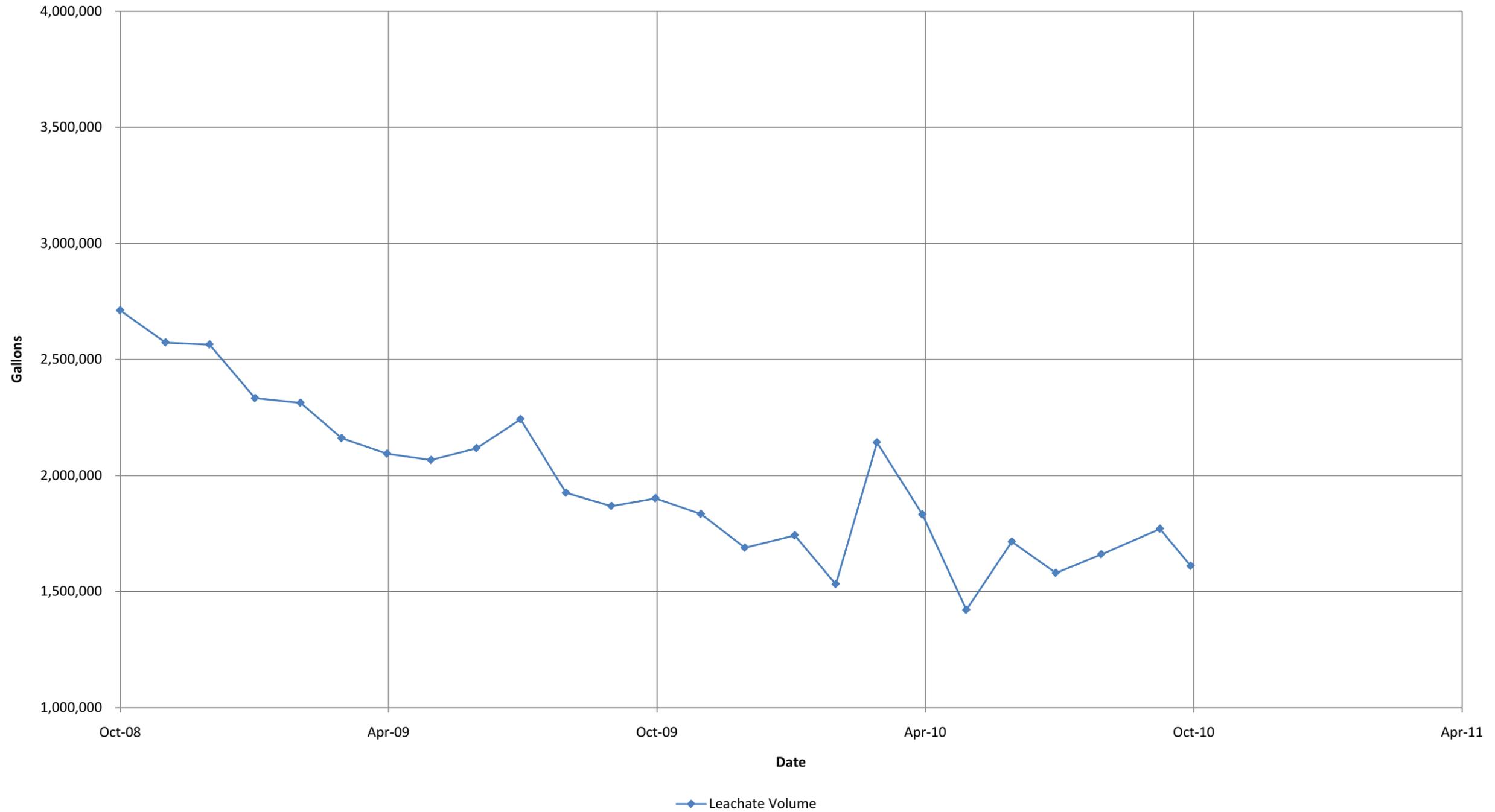
1. Maximum temperature depicted for June 2010 represents a single occurrence of a wellhead temperature over 210 degrees at a single well, caused by wellhead pressure. It does not represent a sustained temperature. Upon vacuum adjustment at the well, temperature returned to normal trend, below 210 degrees

Graph 2 Settlement Volume



1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
2. Data presented on monthly basis.
3. Settlement volume reported prior to the 4th quarter of 2009 is for a limited area of the 88-acre reaction area.

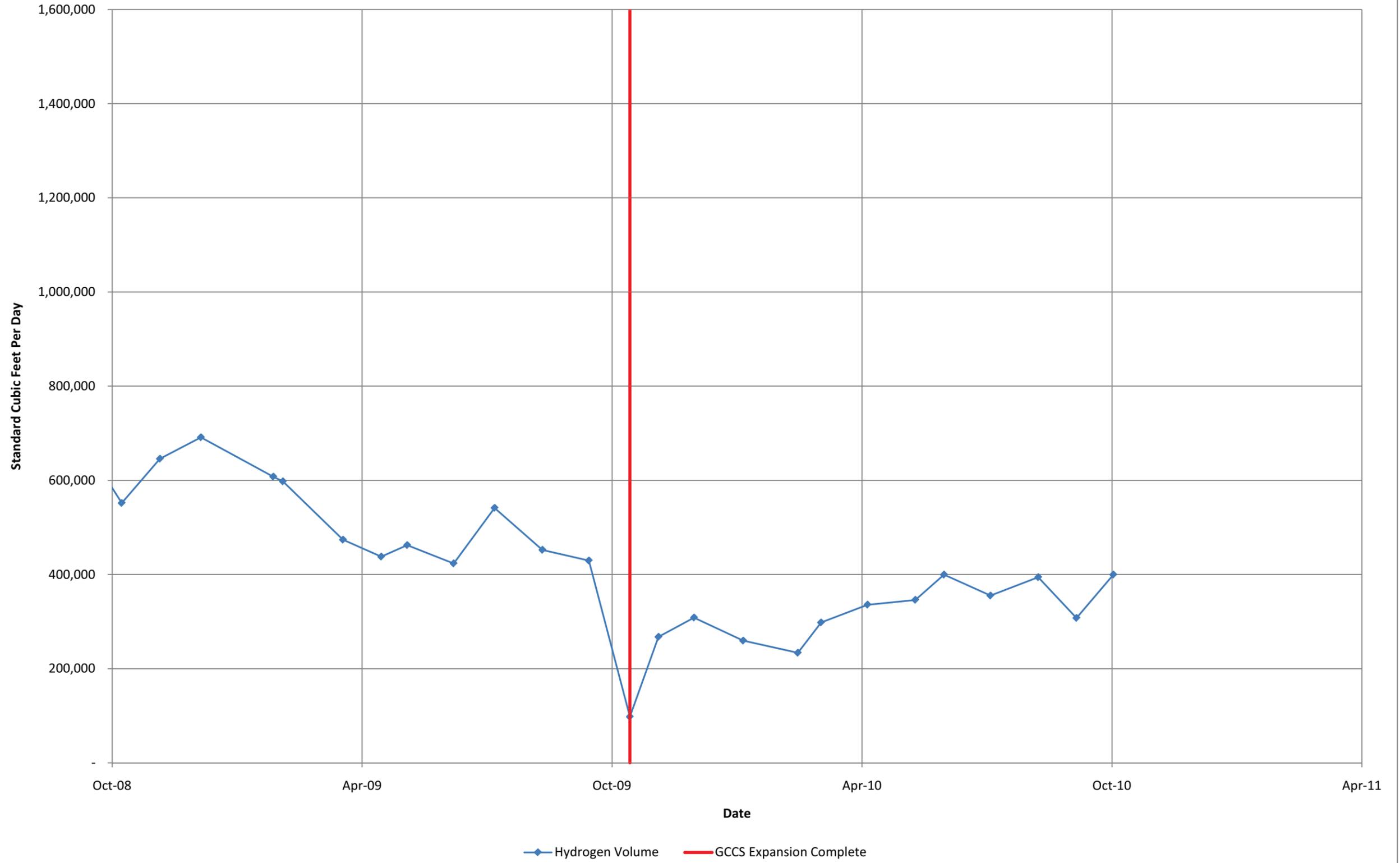
Graph 3 Leachate Volume



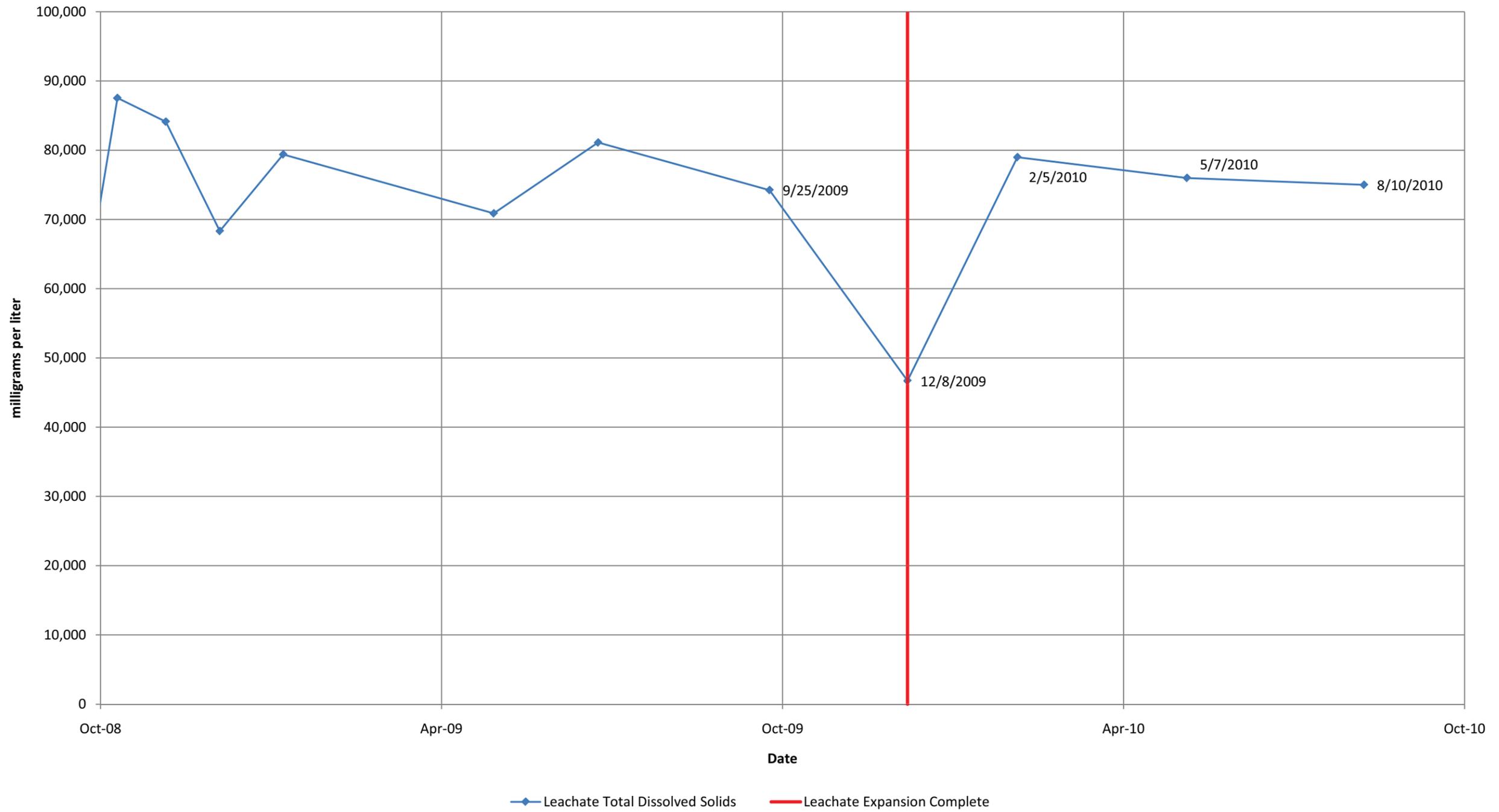
1. A freeboard of approximately 6 feet, approximately 90,000-gallons, is typically maintained at the 500,000-gallon tank. This freeboard volume was removed in July for tank cleaning and inspection. As such, the July 2010 leachate volume is elevated due to removal of this liquid.

2. Leachate generated from the Remediation Unit was stored in the same storage tank as that generated from the Operational Unit during the period July 19, 2010 through August 9, 2010 due to cleaning and maintenance to the Remediation storage tank. As such, the volume of leachate generated from the Remediation Unit was estimated for that period based upon typical daily averages.

Graph 4 Hydrogen Volume

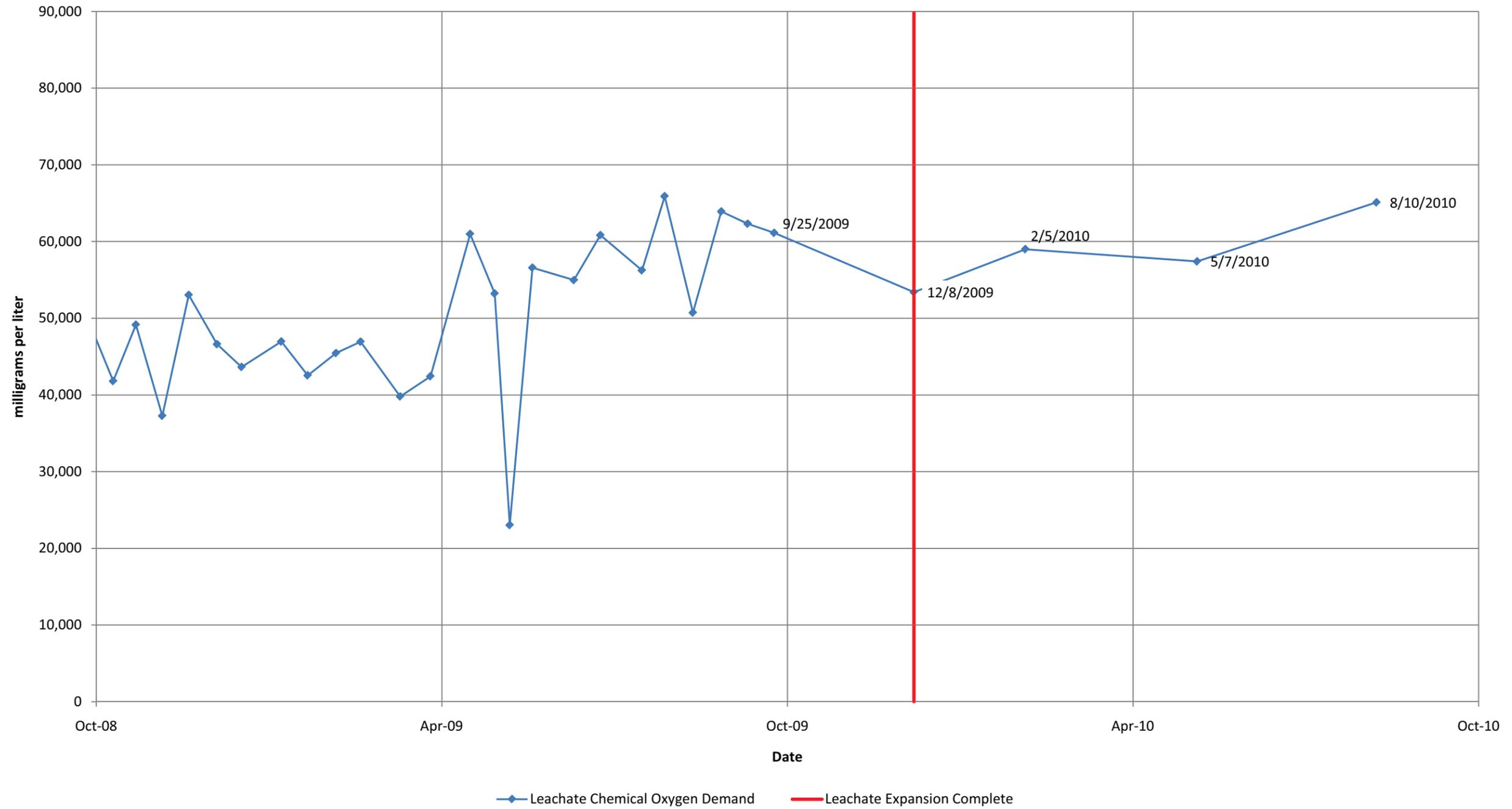


Graph 5 Leachate Total Dissolved Solids



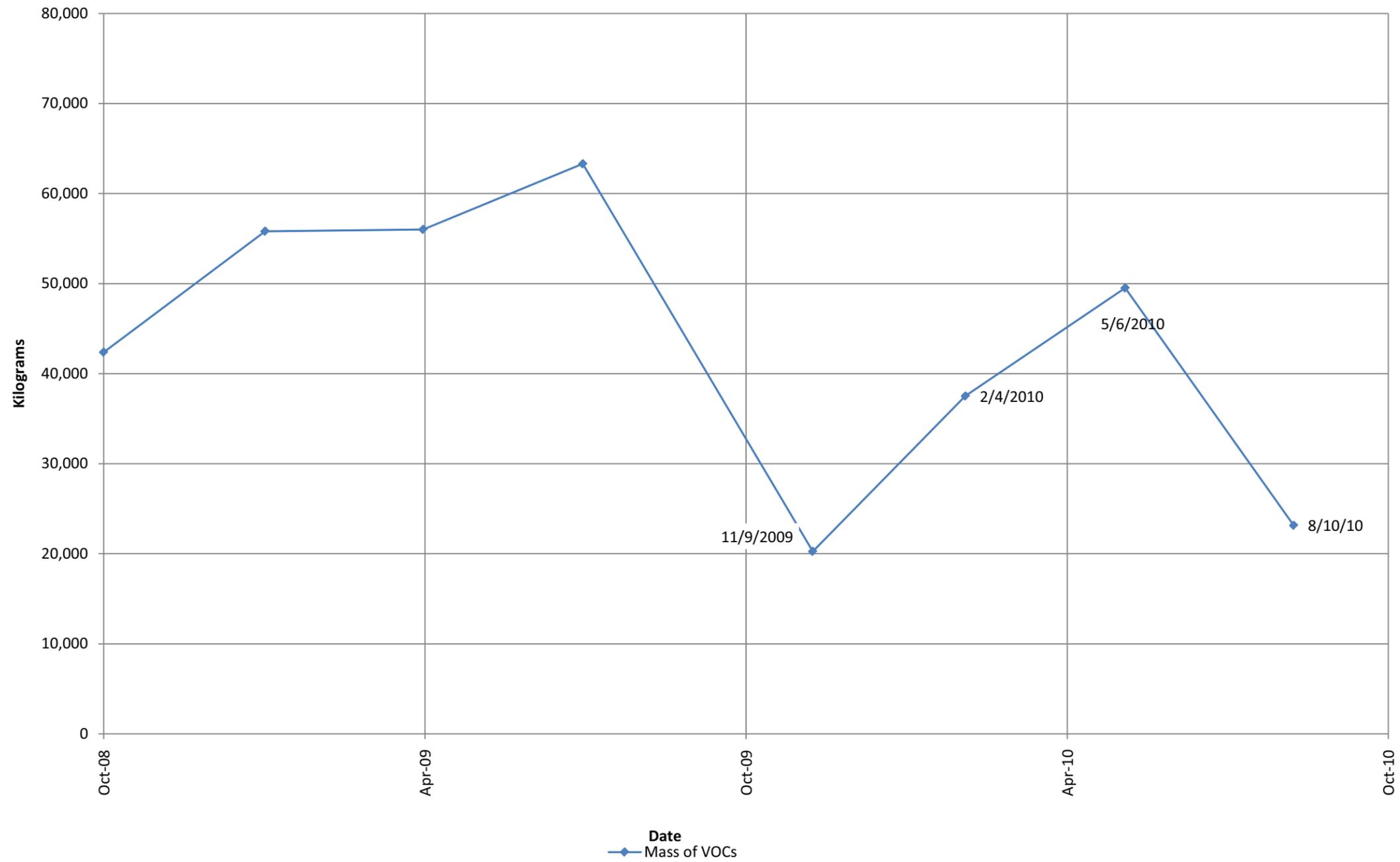
1. Information presented prior to October 2009 was compiled from data prepared and presented by AECOM for Countywide Recycling and Disposal Facility.
2. Data shown prior to October 2009 are flow-weighted averages of data from the East, North and South leachate collection tanks. Data from December 2009 is from combined Tank East 500.
3. Data shown prior to October 2009 comprises data from the leachate collection system only, and excludes certain leachate toe drains, sumps and gas collection wells.
4. Data labels beginning in October 2009 indicate date of quarterly analytical sampling.

Graph 6 Leachate Chemical Oxygen Demand



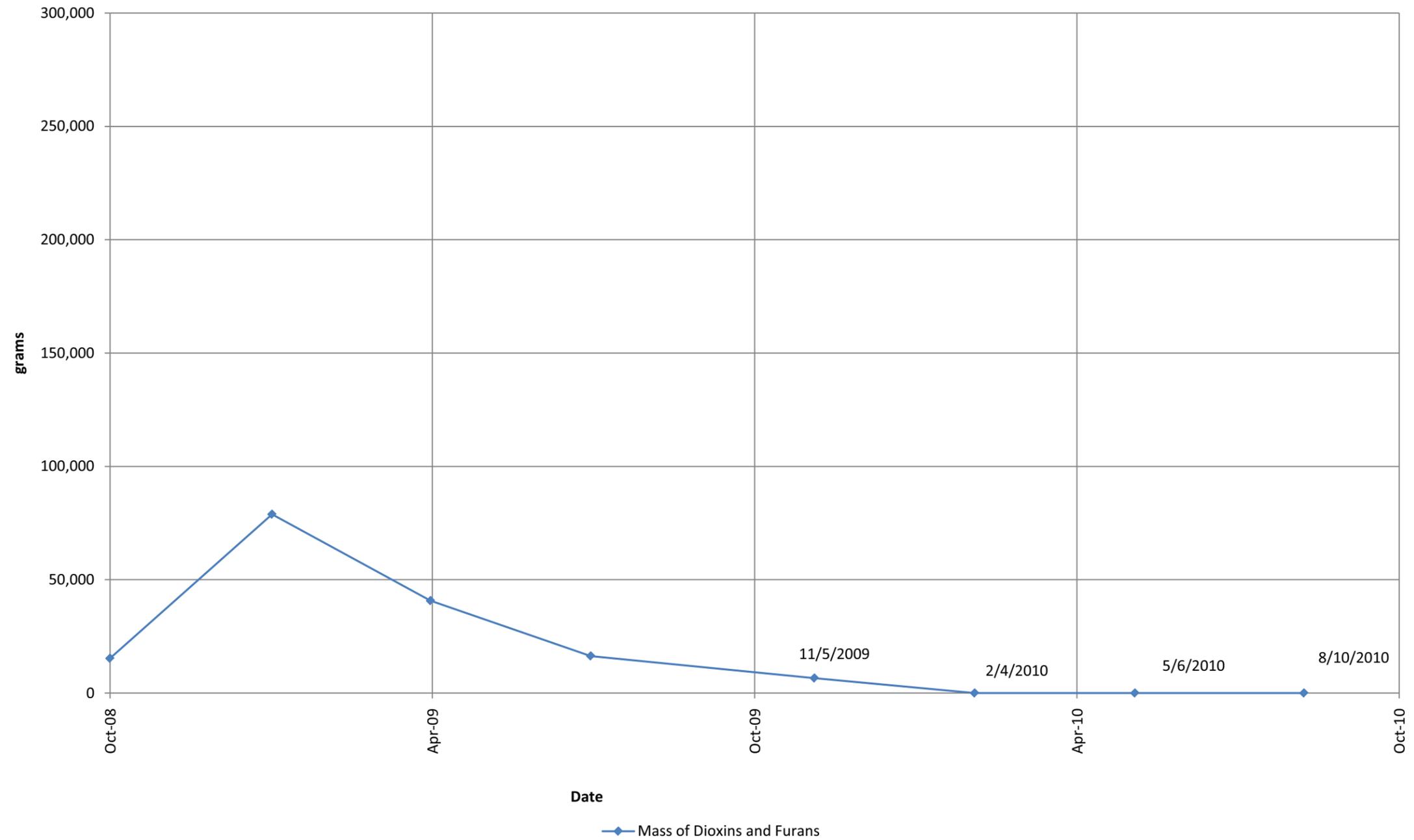
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3. Data shown prior to October 2009 comprises data from the leachate collection system only, and excludes certain leachate toe drains, sumps and gas collection wells.
4. Data labels beginning in October 2009 indicate date of quarterly analytical sampling.

Graph 7 Total Mass of VOCs

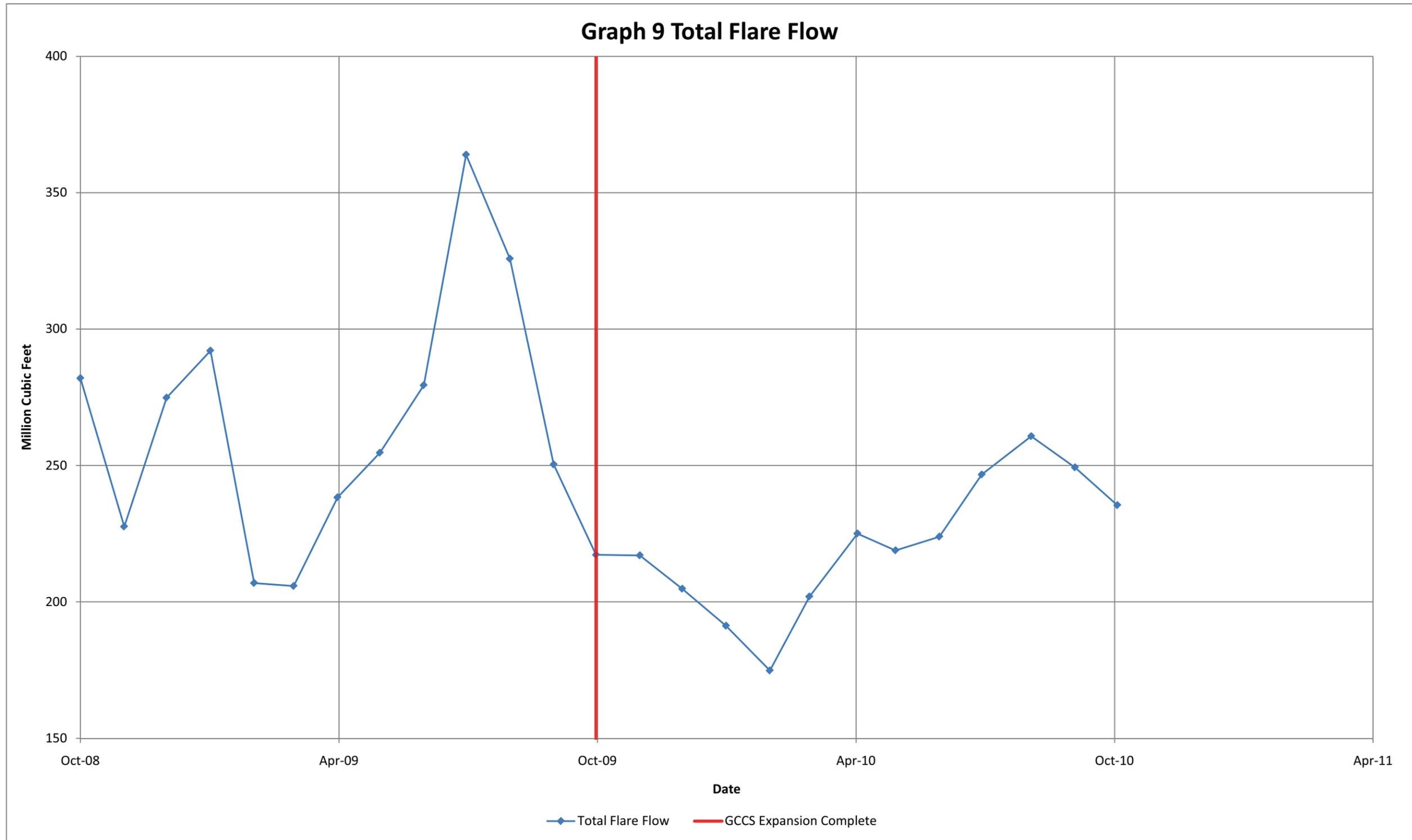


1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
2. Data presentation frequency is quarterly.
3. Flare 4 was not sampled for air quality beginning in September 2009.
4. Beginning in fourth quarter 2009, mass based on data collected only from Flares 7 and 10.
5. Data labels beginning in November 2009 indicate date of quarterly analytical sampling.

Graph 8 Total Mass of Dioxins and Furans

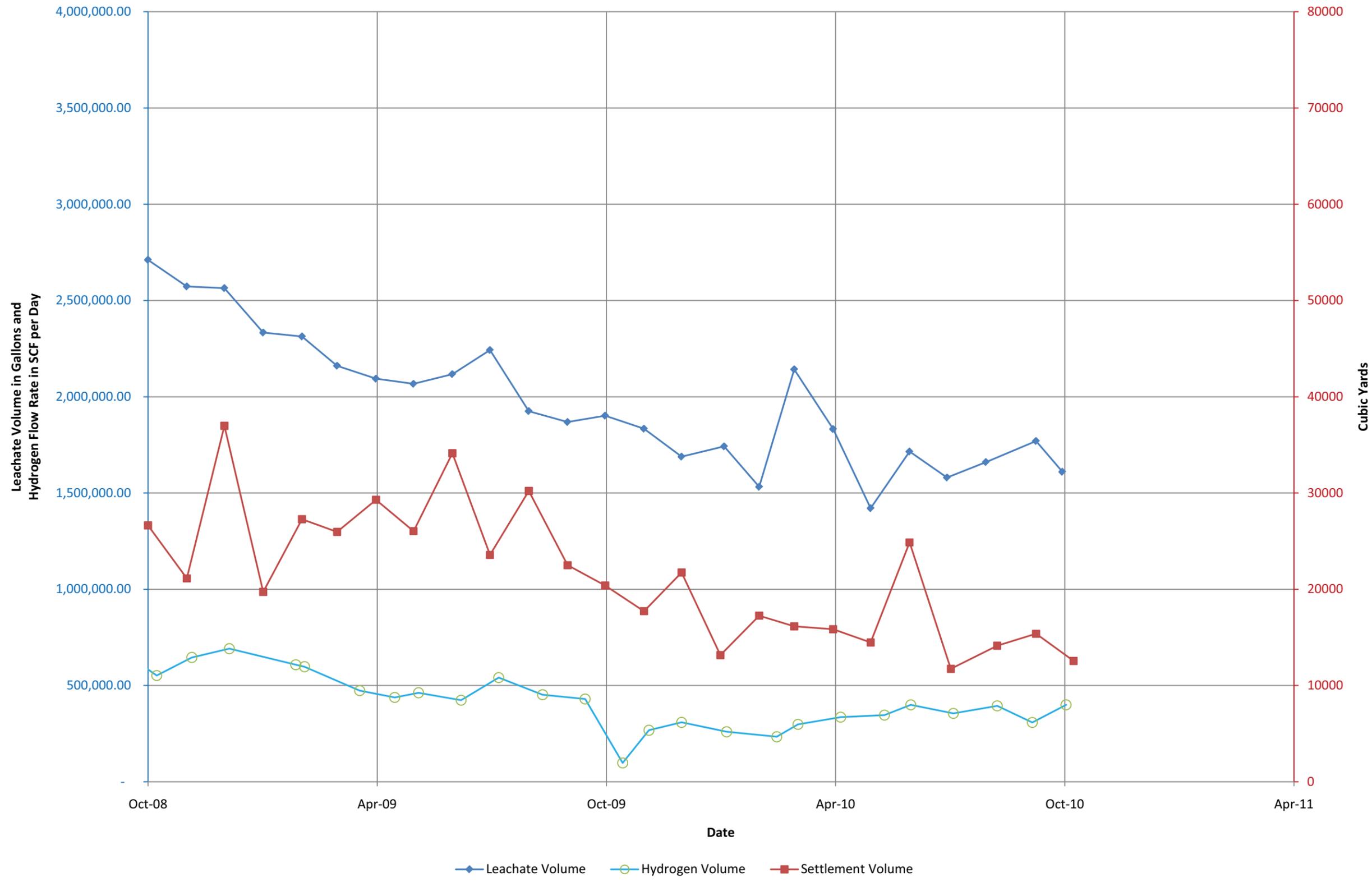


1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
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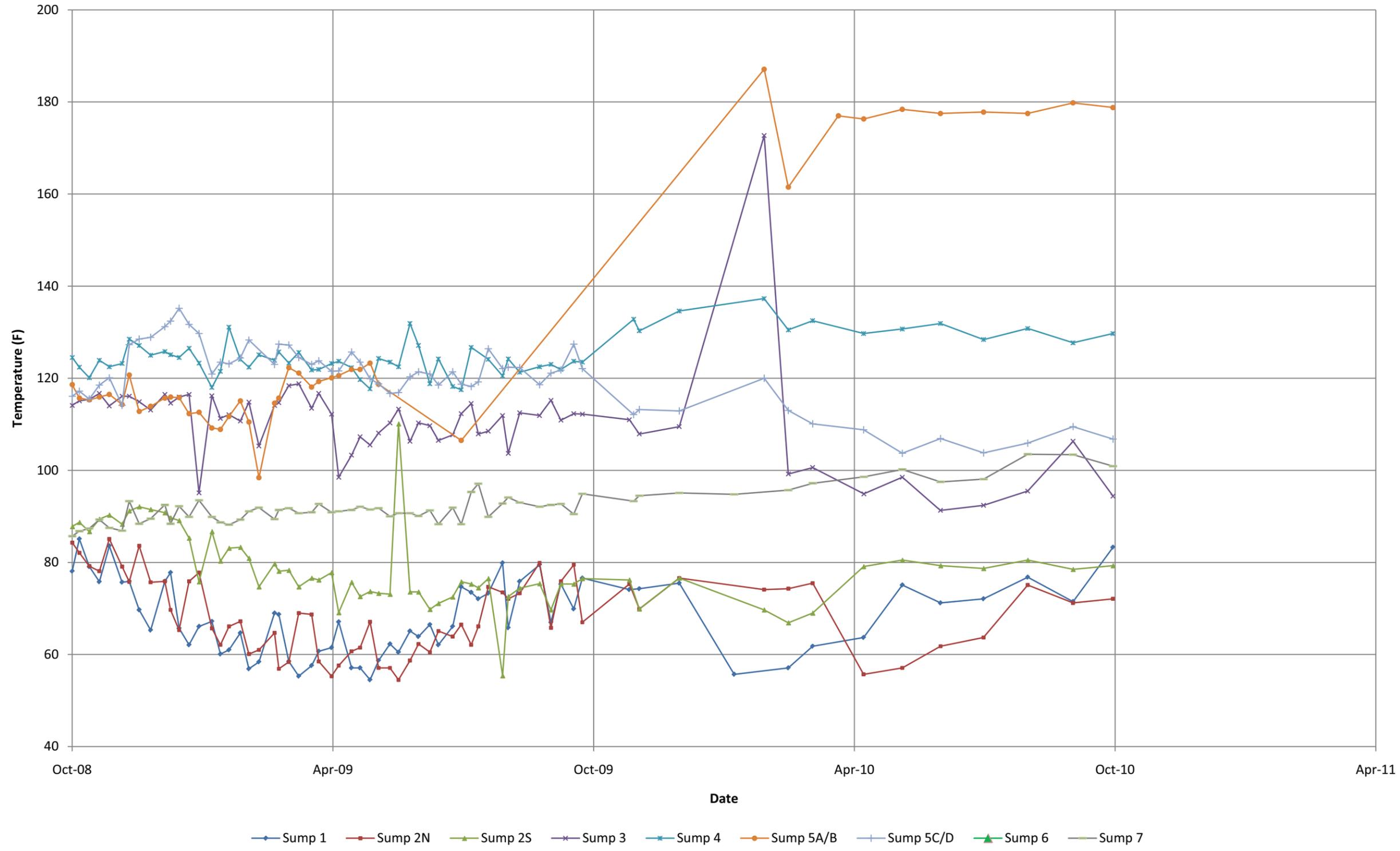


1. Increased flare flow in August 2010 is at least partially due to recalibration of flow meters during the reporting period.

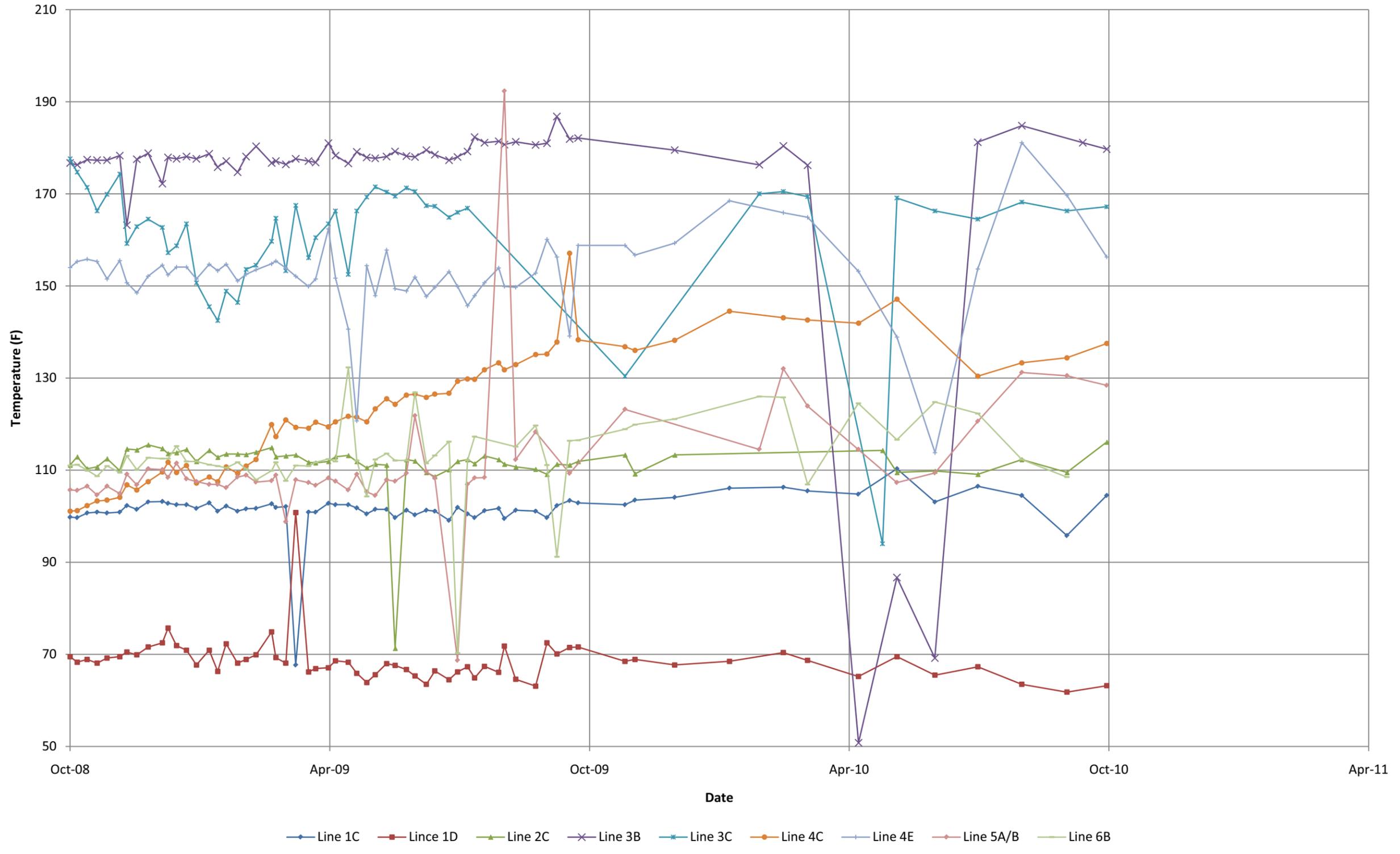
Graph 10 Combined Leachate, Hydrogen and Settlement Volume



Graph 11 Leachate Sump Temperature



Graph 12 Leachate Cleanout Temperature



Attachment 2

Tables

Table 1. Leachate Constituent Summary

Parameter Name		Value	Qualifier	Units	Detection Limit	Units
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	<	62	U	ug/L	62	ug/L
1,1,1-Trichloroethane	<	62	U	ug/L	62	ug/L
1,1,2,2-Tetrachloroethane	<	62	U	ug/L	62	ug/L
1,1,2-Trichloroethane	<	62	U	ug/L	62	ug/L
1,1-Dichloroethane	<	62	U	ug/L	62	ug/L
1,1-Dichloroethylene	<	62	U	ug/L	62	ug/L
1,2,3-Trichloropropane	<	62	U	ug/L	62	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	<	120	U	ug/L	120	ug/L
1,2-Dibromoethane (EDB)	<	62	U	ug/L	62	ug/L
1,2-Dichloroethane	<	62	U	ug/L	62	ug/L
1,2-Dichloropropane	<	62	U	ug/L	62	ug/L
2-Hexanone	<	620	U	ug/L	620	ug/L
4-Methyl-2-pentanone		470	J	ug/L	620	ug/L
Acetone		32000	E	ug/L	620	ug/L
Acrylonitrile	<	1200	U	ug/L	1200	ug/L
Benzene		90		ug/L	62	ug/L
Bromochloromethane	<	62	U	ug/L	62	ug/L
Bromodichloromethane	<	62	U	ug/L	62	ug/L
Bromoform	<	62	U	ug/L	62	ug/L
Carbon disulfide	<	62	U	ug/L	62	ug/L
Carbon tetrachloride	<	62	U	ug/L	62	ug/L
Chlorobenzene	<	62	U	ug/L	62	ug/L
Chloroethane	<	62	U	ug/L	62	ug/L
Chloroform	<	62	U	ug/L	62	ug/L
cis-1,2-Dichloroethylene	<	62	U	ug/L	62	ug/L
cis-1,3-Dichloropropene	<	62	U	ug/L	62	ug/L
Dibromochloromethane	<	62	U	ug/L	62	ug/L
Ethylbenzene		18	J	ug/L	62	ug/L
Methyl bromide	<	62	U	ug/L	62	ug/L
Methyl chloride	<	62	U	ug/L	62	ug/L
Methyl ethyl ketone		13000	E	ug/L	620	ug/L
Methyl iodide	<	62	U	ug/L	62	ug/L
Methylene bromide	<	62	U	ug/L	62	ug/L
Methylene chloride	<	62	U	ug/L	62	ug/L
o-Dichlorobenzene	<	62	U	ug/L	62	ug/L
p-Dichlorobenzene		15	J	ug/L	62	ug/L
Styrene	<	62	U	ug/L	62	ug/L
Tetrachloroethylene	<	62	U	ug/L	62	ug/L
Toluene		39	J	ug/L	62	ug/L
trans-1,2-Dichloroethylene	<	62	U	ug/L	62	ug/L
trans-1,3-Dichloropropene	<	62	U	ug/L	62	ug/L
trans-1,4-Dichloro-2-butene	<	62	U	ug/L	62	ug/L
Trichloroethylene	<	62	U	ug/L	62	ug/L
Trichlorofluoromethane	<	62	U	ug/L	62	ug/L
Vinyl acetate	<	120	U	ug/L	120	ug/L
Vinyl chloride	<	62	U	ug/L	62	ug/L
Xylenes (total)		75	J	ug/L	120	ug/L

Table 1. Leachate Constituent Summary

Dioxins/Furans						
1,2,3,4,6,7,8-HpCDD	<	500	U	pg/L	500	pg/L
1,2,3,4,6,7,8-HpCDF	<	500	U	pg/L	500	pg/L
1,2,3,4,7,8,9-HpCDF	<	500	U	pg/L	500	pg/L
1,2,3,4,7,8-HxCDD	<	500	U	pg/L	500	pg/L
1,2,3,4,7,8-HxCDF	<	500	U	pg/L	500	pg/L
1,2,3,6,7,8-HxCDD	<	500	U	pg/L	500	pg/L
1,2,3,6,7,8-HxCDF	<	500	U	pg/L	500	pg/L
1,2,3,7,8,9-HxCDD	<	500	U	pg/L	500	pg/L
1,2,3,7,8,9-HxCDF	<	500	U	pg/L	500	pg/L
1,2,3,7,8-PeCDD	<	500	U	pg/L	500	pg/L
1,2,3,7,8-PeCDF	<	500	U	pg/L	500	pg/L
2,3,4,6,7,8-HxCDF	<	500	U	pg/L	500	pg/L
2,3,4,7,8-PeCDF	<	500	U	pg/L	500	pg/L
2,3,7,8-TCDD	<	100	U	pg/L	100	pg/L
2,3,7,8-TCDF	<	100	U	pg/L	100	pg/L
OCDD		260	BJ	pg/L	1000	pg/L
OCDF	<	1000	U	pg/L	1000	pg/L
Total HpCDD		31	QJ	pg/L	500	pg/L
Total HpCDF	<	500	U	pg/L	500	pg/L
Total HxCDD	<	500	U	pg/L	500	pg/L
Total HxCDF	<	500	U	pg/L	500	pg/L
Total PeCDD	<	500	U	pg/L	500	pg/L
Total PeCDF	<	500	U	pg/L	500	pg/L
Total TCDD	<	100	U	pg/L	100	pg/L
Total TCDF	<	100	U	pg/L	100	pg/L
Metals						
Aluminum	<	20000	UG	ug/L	20000	ug/L
Antimony	<	1000	UG	ug/L	1000	ug/L
Arsenic	<	500	UG	ug/L	500	ug/L
Barium		1760		ug/L	1000	ug/L
Beryllium	<	300	UG	ug/L	300	ug/L
Cadmium	<	200	UG	ug/L	200	ug/L
Calcium		3920000		ug/L	100000	ug/L
Chromium		629		ug/L	500	ug/L
Cobalt	<	500	UG	ug/L	500	ug/L
Copper	<	500	UG	ug/L	500	ug/L
Iron		1230000		ug/L	10000	ug/L
Lead		351		ug/L	300	ug/L
Magnesium		1160000		ug/L	100000	ug/L
Manganese		90700		ug/L	500	ug/L
Nickel	<	1000	UG	ug/L	1000	ug/L
Potassium		5130000		ug/L	100000	ug/L
Selenium	<	500	UG	ug/L	500	ug/L
Silver	<	300	UG	ug/L	300	ug/L
Sodium		11100000		ug/L	100000	ug/L
Thallium	<	1000	UG	ug/L	1000	ug/L
Vanadium	<	700	UG	ug/L	700	ug/L
Zinc		37400		ug/L	2000	ug/L

Table 1. Leachate Constituent Summary

Field Parameters					
Specific Conductance	110000		umhos/cm	100	umhos/cm
Field pH	6		s.u.		s.u.
Field Temperature	95.4		F		F
General Chemistry					
Ammonia	1430		mg/L	25	mg/L
Turbidity	2500		NTU	50	NTU
Chloride	20400		mg/L	500	mg/L
Fluoride	< 100	UG	mg/L	100	mg/L
Sulfate	930		mg/L	100	mg/L
Nitrate-Nitrite	< 10	UG	mg/L	10	mg/L
Total Alkalinity	7310		mg/L	500	mg/L
Total Dissolved Solids	75000		mg/L	1000	mg/L
Chemical Oxygen Demand (COD)	65100		mg/L	2000	mg/L

Notes:

1. Results shown are reported for sample collected from the East 500 Leachate Tank on August 10, 2010 and were submitted to Test America Laboratories for analysis.

2. Laboratory Qualifiers:

- G The reporting limit is elevated due to matrix interference.
- J Amount reported is less than reportable limit
- a Spike analyte recovery is outside control limits
- D Dilution and reporting limit raised.
- U Non detect
- Q Estimated maximum concentration
- B Method Blank Contamination
- NC The recovery and/or RPD (relevant percent distance) were not calculated
- MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

Table 2. Liquid Levels and Percent Perforations Exposed

Well ID	A2	B1R	B2R	C1R(2)	C2R	D1	D2R	E1	E2R	F1-M	F2	I1R	J1R	K1R	N1R	PW-A1R(2)	PW-14R(3)	PW-0041R(2)
Total Constructed Casing Length (ft)	68	36	78	48	123	57	123	70	123	60	68	121	122	56	122	61.5	43	73
Total Constructed Perforated Pipe Length (ft)	45	16	54	23	99	36	99	45	99	39	44	96	97	31	97	38	21	55
August 2010																		
Date	8/24	8/24	N/A	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24
Depth To Fluid (ft)	23.1	24.1	N/A	24.9	49.7	16.5	59.4	26.3	73.2	17.9	33.2	74.1	55.6	21.9	22.5	44.3	29.5	57.1
Measured Depth to Bottom (ft)	23.1	35.4	N/A	43.8	116.3	16.5	59.4	27.2	113.8	47.1	64.5	90.4	92.2	51.0	105.2	52.6	40.8	59.7
Potential Exposed Perforations (ft)	0.1	15.4	N/A	18.8	92.3	0.0	35.4	2.2	89.8	26.1	40.5	65.4	67.2	26.0	80.2	29.1	18.8	41.7
Actual Exposed Perforations (ft)	0.1	4.1	N/A	0	25.7	0	35.4	1.3	49.2	0	9.2	49.1	30.6	0	0	20.8	7.5	39.1
September 2010																		
Date	9/20	9/21	N/A	9/21	9/20	9/21	9/20	9/21	9/20	9/21	9/20	9/21	9/21	9/21	9/20	9/21	9/21	9/21
Depth To Fluid (ft)	22.7	24.2	N/A	25.2	45.1	16.5	52.9	23.4	58.9	21.5	33.3	75.3	52.9	21.3	35.7	41.8	29.7	51.6
Measured Depth to Bottom (ft)	22.7	35.2	N/A	43.8	116.2	16.5	52.9	27.4	111.4	46.9	55.9	90.2	118.3	51.2	104.3	52.9	40.8	57.8
Potential Exposed Perforations (ft)	0.0	15.2	N/A	18.8	92.2	0.0	28.9	2.4	87.4	25.9	31.9	65.2	93.3	26.2	79.3	29.4	18.8	39.8
Actual Exposed Perforations (ft)	0	4.2	N/A	0.2	21.1	0	28.9	0	34.9	0.5	9.3	50.3	27.9	0	10.7	18.3	7.7	33.6
October 2010																		
Date	10/27	10/25	N/A	10/25	10/27	10/27	10/27	10/25	10/27	10/25	10/27	10/25	10/25	10/25	10/25	10/25	10/25	10/25
Depth To Fluid (ft)	16.6	24.3	N/A	24.2	43.6	10.9	52.9	24.3	74.4	17.4	32.6	28.3	51.4	20.6	66.7	41.8	29.8	57.7
Measured Depth to Bottom (ft)	16.6	35.2	N/A	43.8	116.1	16.4	52.9	27.3	111.1	46.8	56.5	89.5	118.0	51.1	94.6	52.8	40.8	58.0
Potential Exposed Perforations (ft)	0.0	15.2	N/A	18.8	92.1	0.0	28.9	2.3	87.1	25.8	32.5	64.5	93.0	26.1	69.6	29.3	18.8	40.0
Actual Exposed Perforations (ft)	0	4.3	N/A	0	19.6	0	28.9	0	50.4	0	8.6	3.3	26.4	0	41.7	18.3	7.8	39.7
Well ID	PW-43R(2)	PW-56R(2)	PW-57R	PW-61R(2)	PW-62R(2)	PW-101	PW-102	PW-103R	PW-104	PW-105	PW-106R	PW-107	PW-108R	PW-109	PW-110	PW-111	PW-112	PW-113
Total Constructed Casing Length (ft)	102	102	85	74	91	78	78	105	78	78	69	66	50	37	31	62	77	78
Total Constructed Perforated Pipe Length (ft)	84	84	67	48	73	60	60	81	60	60	45	45	26	19	13	44	59	60
August 2010																		
Date	8/24	8/18	8/18	8/18	8/24	8/24	8/24	8/24	8/18	8/18	8/24	8/18	8/24	8/18	8/18	8/18	8/18	8/24
Depth To Fluid (ft)	55.0	51.4	60.9	70.4	63.3	39.5	17.6	57.3	27.2	35.9	53.5	55.0	46.5	30.3	22.1	60.9	74.6	72.5
Measured Depth to Bottom (ft)	80.9	91.5	76.4	75.0	63.3	78.2	17.6	101.7	51.6	35.9	63.2	55.0	47.8	37.1	31.6	64.2	79.8	77.4
Potential Exposed Perforations (ft)	62.9	73.5	58.4	49.0	45.3	60.2	0.0	77.7	33.6	17.9	39.2	34.0	23.8	19.1	13.6	46.2	61.8	59.4
Actual Exposed Perforations (ft)	37	33.4	42.9	44.4	45.3	21.5	0	33.3	9.2	17.9	29.5	34	22.5	12.3	4.1	42.9	56.6	54.5
September 2010																		
Date	9/21	9/20	9/20	9/20	9/20	9/21	9/21	9/20	9/20	9/20	9/21	9/20	9/20	9/21	9/21	9/20	9/20	9/20
Depth To Fluid (ft)	55.3	52.5	61.7	70.5	63.2	39.9	21.9	57.2	30.2	35.0	54.3	57.8	46.8	30.1	22.3	63.7	74.7	72.8
Measured Depth to Bottom (ft)	82.6	91.3	76.4	74.8	63.2	77.9	35.5	101.0	51.6	35.0	62.9	60.7	47.8	37.1	31.6	64.4	80.0	77.8
Potential Exposed Perforations (ft)	64.6	73.3	58.4	48.8	45.2	59.9	17.5	77.0	33.6	17.0	38.9	39.7	23.8	19.1	13.6	46.4	62.0	59.8
Actual Exposed Perforations (ft)	37.3	34.5	43.7	44.5	45.2	21.9	3.9	33.2	12.2	17	30.3	36.8	22.8	12.1	4.3	44	56.7	54.8
October 2010																		
Date	10/25	10/27	10/27	10/27	10/27	10/25	10/25	10/25	10/27	10/27	10/25	10/19	10/27	10/19	10/19	10/19	10/19	10/19
Depth To Fluid (ft)	55.5	39.1	61.7	70.5	63.3	39.6	22.3	56.3	29.3	34.9	54.6	58.6	46.9	30.0	22.2	64.1	74.5	72.9
Measured Depth to Bottom (ft)	82.3	91.3	76.4	75.1	63.3	77.7	35.4	101.0	36.9	34.9	63.0	61.0	47.7	37.1	31.6	64.3	79.8	77.6
Potential Exposed Perforations (ft)	64.3	73.3	58.4	49.1	45.3	59.7	17.4	77.0	18.9	16.9	39.0	40.0	23.7	19.1	13.6	46.3	61.8	59.6
Actual Exposed Perforations (ft)	37.5	21.1	43.7	44.5	45.3	21.6	4.3	32.3	11.3	16.9	30.6	37.6	22.9	12	4.2	44	56.5	54.9

Table 2. Liquid Levels and Percent Perforations Exposed

Well ID	PW-114	PW-115R	PW-117R	PW-118R	PW-119R	PW-120	PW-121R(2)	PW-122R	PW-123	PW-124	PW-125	PW-127	PW-128	PW-129	PW-130	PW-131R	PW-132R	PW-138R	
Total Constructed Casing Length (ft)	78	84	105	89	72	78	46	43.5	78	63	75	75	119.7	121	121	81	62	70	
Total Constructed Perforated Pipe Length (ft)	60	60	80	64	50	60	31	25	60	45	60	60	103	103	103	58	40	46	
August 2010																			
Date	8/18	8/24	8/24	8/18	8/24	8/24	8/24	8/24	N/A	8/24	8/24	8/24	8/24	8/24	8/24	N/A	8/24	8/24	
Depth To Fluid (ft)	69.3	74.4	35.3	71.9	58.8	34.0	35.7	36.4	N/A	51.5	41.2	24.6	63.4	59.9	62.7	N/A	32.9	38.8	
Measured Depth to Bottom (ft)	79.5	77.2	35.3	84.3	64.3	34.0	37.1	36.4	N/A	54.6	69.3	67.7	99.6	108.4	109.9	N/A	42.7	58.7	
Potential Exposed Perforations (ft)	61.5	53.2	10.3	59.3	42.3	16.0	22.1	17.9	N/A	36.6	54.3	52.7	82.9	90.4	91.9	N/A	20.7	34.7	
Actual Exposed Perforations (ft)	51.3	50.4	10.3	46.9	36.8	16	20.7	17.9	N/A	33.5	26.2	9.6	46.7	41.9	44.7	N/A	10.9	14.8	
September 2010																			
Date	9/20	9/20	9/21	9/20	9/21	9/21	9/21	9/21	N/A	9/21	9/20	9/20	9/20	9/20	9/20	N/A	9/20	9/20	
Depth To Fluid (ft)	69.7	74.8	35.4	72.5	59.1	34.0	36.3	36.4	N/A	51.5	41.5	25.7	74.3	60.0	62.4	N/A	33.4	39.4	
Measured Depth to Bottom (ft)	79.6	77.2	35.4	84.2	64.4	34.0	37.0	36.4	N/A	54.8	69.1	67.6	98.7	108.4	109.9	N/A	43.5	57.4	
Potential Exposed Perforations (ft)	61.6	53.2	10.4	59.2	42.4	16.0	22.0	17.9	N/A	36.8	54.1	52.6	82.0	90.4	91.9	N/A	21.5	33.4	
Actual Exposed Perforations (ft)	51.7	50.8	10.4	47.5	37.1	16	21.3	17.9	N/A	33.5	26.5	10.7	57.6	42	44.4	N/A	11.4	15.4	
October 2010																			
Date	10/27	10/27	10/25	10/27	10/25	10/25	10/25	10/25	N/A	10/25	10/27	10/25	10/25	10/25	10/25	N/A	10/27	10/27	
Depth To Fluid (ft)	69.8	73.1	35.3	72.7	59.4	34.5	35.7	36.3	N/A	51.5	41.3	26.7	61.8	59.1	61.6	N/A	33.6	40.0	
Measured Depth to Bottom (ft)	79.6	77.1	35.3	84.5	64.4	34.5	36.8	36.3	N/A	54.8	68.6	67.3	91.0	108.3	109.8	N/A	43.6	58.1	
Potential Exposed Perforations (ft)	61.6	53.1	10.3	59.5	42.4	16.5	21.8	17.8	N/A	36.8	53.6	52.3	74.3	90.3	91.8	N/A	21.6	34.1	
Actual Exposed Perforations (ft)	51.8	49.1	10.3	47.7	37.4	16.5	20.7	17.8	N/A	33.5	26.3	11.7	45.1	41.1	43.6	N/A	11.6	16	
Well ID	PW-141R	PW-142R	PW-144	PW-145	PW-146	PW-147R	PW-148	PW-149	PW-150	PW-151	PW-152	PW-153	PW-154	PW-155	PW-156	PW-157	PW-158R	PW-159	
Total Constructed Casing Length (ft)	104	80	102	120	120	80	53	51	50	43	42	52	42	42	112	112	104	117	
Total Constructed Perforated Pipe Length (ft)	80	58	82	100	100	58	33	31	30	23	22	32	22	22	89	89	80	97	
August 2010																			
Date	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	
Depth To Fluid (ft)	44.9	64.6	31.9	54.4	47.3	34.8	40.6	50.2	33.9	31.3	35.8	44.8	40.1	36.2	60.3	51.8	53.2	52.5	
Measured Depth to Bottom (ft)	97.0	75.7	86.0	113.9	111.2	69.1	45.5	50.5	45.8	31.3	41.7	44.8	40.1	36.5	105.0	105.7	100.2	113.8	
Potential Exposed Perforations (ft)	73.0	53.7	66.0	93.9	91.2	47.1	25.5	30.5	25.8	11.3	21.7	24.8	20.1	16.5	82.0	82.7	76.2	93.8	
Actual Exposed Perforations (ft)	20.9	42.6	11.9	34.4	27.3	12.8	20.6	30.2	13.9	11.3	15.8	24.8	20.1	16.2	37.3	28.8	29.2	32.5	
September 2010																			
Date	9/20	9/21	N/A	9/20	9/20	9/21	9/21	9/21	9/21	9/21	9/21	9/21	9/21	9/21	9/20	9/20	9/20	9/20	
Depth To Fluid (ft)	45.7	44.8	N/A	54.1	47.1	23.4	30.3	33.8	34.2	31.5	36.1	44.8	40.7	36.5	60.3	52.2	55.0	52.3	
Measured Depth to Bottom (ft)	96.6	75.7	N/A	114.2	111.1	69.0	45.4	50.5	45.8	31.5	41.6	44.9	41.1	36.5	105.1	105.7	99.8	113.8	
Potential Exposed Perforations (ft)	72.6	53.7	N/A	94.2	91.1	47.0	25.4	30.5	25.8	11.5	21.6	24.9	21.1	16.5	82.1	82.7	75.8	93.8	
Actual Exposed Perforations (ft)	21.7	22.8	N/A	34.1	27.1	1.4	10.3	13.8	14.2	11.5	16.1	24.8	20.7	16.5	37.3	29.2	31	32.3	
October 2010																			
Date	10/25	10/25	N/A	10/25	10/25	10/25	10/25	10/25	10/27	10/25	10/25	10/25	10/25	10/25	10/25	10/25	10/25	10/27	
Depth To Fluid (ft)	44.9	73.4	N/A	53.8	46.2	31.8	29.4	31.3	33.8	29.7	36.5	44.7	41.2	36.3	59.3	51.9	53.5	52.1	
Measured Depth to Bottom (ft)	99.3	75.4	N/A	115.7	111.0	75.2	45.4	50.4	45.4	31.3	41.5	44.7	41.2	36.5	104.7	105.6	101.8	113.8	
Potential Exposed Perforations (ft)	75.3	53.4	N/A	95.7	91.0	53.2	25.4	30.4	25.4	11.3	21.5	24.7	21.2	16.5	81.7	82.6	77.8	93.8	
Actual Exposed Perforations (ft)	20.9	51.4	N/A	33.8	26.2	9.8	9.4	11.3	13.8	9.7	16.5	24.7	21.2	16.3	36.3	28.9	29.5	32.1	

Table 2. Liquid Levels and Percent Perforations Exposed

Well ID	PW-160	PW-161	PW-162	PW-163R	PW-164	PW-165	PW-166	PW-167R	PW-168(M)	PW-169	PW-170	PW-171	PW-172	PW-173	PW-174	PW-175	PW-176	PW-177	
Total Constructed Casing Length (ft)	119	117	102	100	117	117	122	80	93	61	40	47	117	114	105	80	77	44	
Total Constructed Perforated Pipe Length (ft)	97	95	80	75	97	97	95	58	68	15	18	22	92	90	80	58	55	24	
August 2010																			
Date	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/18	8/18	8/24	8/24	8/24	8/24	8/18	8/18	8/18	8/18	8/18
Depth To Fluid (ft)	51.3	46.6	50.4	44.3	45.2	54.4	47.2	51.1	76.6	55.0	22.9	23.1	39.8	30.0	21.1	44.9	41.6	35.5	
Measured Depth to Bottom (ft)	112.1	113.9	92.9	91.3	111.0	116.1	97.0	76.2	92.8	56.1	43.4	45.2	114.1	107.5	95.1	62.4	65.0	42.6	
Potential Exposed Perforations (ft)	90.1	91.9	70.9	66.3	91.0	96.1	70.0	54.2	67.8	10.1	21.4	20.2	89.1	83.5	70.1	40.4	43.0	22.6	
Actual Exposed Perforations (ft)	29.3	24.6	28.4	19.3	25.2	34.4	20.2	29.1	51.6	9	0.9	0	14.8	6	0	22.9	19.6	15.5	
September 2010																			
Date	9/20	9/21	9/21	9/21	9/21	9/21	9/21	9/21	9/20	9/20	9/20	9/21	9/21	9/20	9/20	9/20	9/20	9/20	9/20
Depth To Fluid (ft)	63.0	46.1	48.9	44.0	45.4	54.3	47.3	50.9	76.8	54.9	24.3	22.9	39.8	54.9	28.2	45.8	46.1	34.7	
Measured Depth to Bottom (ft)	112.3	114.4	93.3	91.4	106.3	116.0	93.1	75.9	92.9	56.1	43.3	45.2	114.1	108.9	100.5	62.3	65.3	42.9	
Potential Exposed Perforations (ft)	90.3	92.4	71.3	66.4	86.3	96.0	66.1	53.9	67.9	10.1	21.3	20.2	89.1	84.9	75.5	40.3	43.3	22.9	
Actual Exposed Perforations (ft)	41	24.1	26.9	19	25.4	34.3	20.3	28.9	51.8	8.9	2.3	0	14.8	30.9	3.2	23.8	24.1	14.7	
October 2010																			
Date	10/25	10/25	10/25	10/25	10/25	10/25	10/25	10/25	10/19	10/19	10/27	10/25	10/25	10/27	10/27	10/27	10/27	10/27	10/19
Depth To Fluid (ft)	62.1	45.4	48.3	43.4	44.3	53.5	46.5	38.4	76.4	55.0	25.7	22.6	39.2	51.6	34.1	46.4	45.5	36.5	
Measured Depth to Bottom (ft)	112.1	114.0	92.9	91.4	110.8	115.9	94.4	76.0	92.7	56.0	43.2	45.3	115.5	107.4	99.8	62.4	63.2	43.0	
Potential Exposed Perforations (ft)	90.1	92.0	70.9	66.4	90.8	95.9	67.4	54.0	67.7	10.0	21.2	20.3	90.5	83.4	74.8	40.4	41.2	23.0	
Actual Exposed Perforations (ft)	40.1	23.4	26.3	18.4	24.3	33.5	19.5	16.4	51.4	9	3.7	0	14.2	27.6	9.1	24.4	23.5	16.5	
Well ID	PW-178	PW-179	PW-180	PW-181	PW-182	PW-307	PW-358	PW-361	PW-362B	PW-363	PW-364	PW-366	PW-367	PW-368	PW-369	Q1R	S1R	T1R	
Total Constructed Casing Length (ft)	34	61	93	85	42	64	62	104	78	82	82	39	53	47	38	54	125	125	
Total Constructed Perforated Pipe Length (ft)	14	36	68	60	17	42	38	80	53	58	58	25	39	33	24	30	100	100	
August 2010																			
Date	8/24	8/18	8/18	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24	8/24
Depth To Fluid (ft)	32.6	38.4	66.7	66.1	18.8	36.7	53.4	63.6	41.8	44.1	44.5	25.3	28.5	22.0	26.5	44.0	44.8	57.4	
Measured Depth to Bottom (ft)	32.6	60.1	89.9	76.9	40.2	57.2	64.5	102.5	77.0	81.1	79.7	38.8	52.1	49.0	38.7	52.4	113.4	120.1	
Potential Exposed Perforations (ft)	12.6	35.1	64.9	51.9	15.2	35.2	40.5	78.5	52.0	57.1	55.7	24.8	38.1	35.0	24.7	28.4	88.4	95.1	
Actual Exposed Perforations (ft)	12.6	13.4	41.7	41.1	0	14.7	29.4	39.6	16.8	20.1	20.5	11.3	14.5	8	12.5	20	19.8	32.4	
September 2010																			
Date	9/20	9/20	9/20	9/21	9/21	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20	9/20
Depth To Fluid (ft)	32.0	38.7	80.3	64.5	20.7	50.2	36.0	62.6	63.0	45.7	39.7	20.2	27.4	24.2	27.5	44.2	44.9	57.2	
Measured Depth to Bottom (ft)	32.3	60.1	90.1	76.3	40.2	56.8	64.4	102.5	77.7	81.1	79.4	38.9	51.9	49.1	39.1	52.2	115.6	120.0	
Potential Exposed Perforations (ft)	12.3	35.1	65.1	51.3	15.2	34.8	40.4	78.5	52.7	57.1	55.4	24.9	37.9	35.1	25.1	28.2	90.6	95.0	
Actual Exposed Perforations (ft)	12	13.7	55.3	39.5	0	28.2	12	38.6	38	21.7	15.7	6.2	13.4	10.2	13.5	20.2	19.9	32.2	
October 2010																			
Date	10/19	10/19	10/27	10/25	10/25	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/25	10/25	
Depth To Fluid (ft)	31.9	38.4	79.9	26.4	20.5	50.1	49.5	63.8	42.2	54.4	40.8	20.3	43.3	24.0	27.7	44.7	44.5	56.5	
Measured Depth to Bottom (ft)	32.4	60.1	90.0	76.1	40.4	56.6	64.2	102.5	77.7	80.3	79.6	39.0	51.5	49.3	39.2	52.1	115.1	120.1	
Potential Exposed Perforations (ft)	12.4	35.1	65.0	51.1	15.4	34.6	40.2	78.5	52.7	56.3	55.6	25.0	37.5	35.3	25.2	28.1	90.1	95.1	
Actual Exposed Perforations (ft)	11.9	13.4	54.9	1.4	0	28.1	25.5	39.8	17.2	30.4	16.8	6.3	29.3	10	13.7	20.7	19.5	31.5	

Table 2. Liquid Levels and Percent Perforations Exposed

Well ID	U1R	W-1R	W1R(2)	W-2R(M)	W-3	W-4	W-5	W-7	W-8	W-9	W-10	W-11	W-12R	W-13R	W-31R	W-32R	W-33	W-34
Total Constructed Casing Length (ft)	113	46	72	85	33	37	35	38	34	36	103	119	43	43	92	54	52	81
Total Constructed Perforated Pipe Length (ft)	88	20	48	65	12	16	13	14	15	18	85	94	21	21	72	29	34	43
August 2010																		
Date	8/24	8/24	8/24	8/24	8/18	8/18	8/18	8/18	8/18	8/18	8/18	8/18	8/18	8/18	8/24	8/18	8/18	8/18
Depth To Fluid (ft)	61.9	33.3	36.8	35.4	31.0	30.6	33.2	31.0	24.8	34.7	29.9	33.2	38.0	33.3	43.5	44.0	38.4	51.5
Measured Depth to Bottom (ft)	113.1	42.2	68.7	81.4	32.8	36.6	34.6	31.0	33.0	37.5	38.9	39.1	41.2	42.4	91.5	52.5	53.6	73.6
Potential Exposed Perforations (ft)	88.1	16.2	44.7	61.4	11.8	15.6	12.6	7.0	14.0	19.5	20.9	14.1	19.2	20.4	71.5	27.5	35.6	35.6
Actual Exposed Perforations (ft)	36.9	7.3	12.8	15.4	10	9.6	11.2	7	5.8	16.7	11.9	8.2	16	11.3	23.5	19	20.4	13.5
September 2010																		
Date	9/21	9/20	9/20	9/20	9/20	9/21	9/21	9/21	9/21	9/21	9/21	9/21	9/20	9/20	9/20	9/20	9/21	9/21
Depth To Fluid (ft)	46.1	31.4	36.4	36.9	31.3	30.8	32.7	31.0	24.8	34.1	29.0	32.4	37.9	33.5	72.1	43.7	39.6	51.0
Measured Depth to Bottom (ft)	109.0	42.3	67.3	81.1	32.7	36.6	34.6	31.0	33.1	37.7	38.9	39.4	41.5	42.6	91.3	52.8	53.7	73.7
Potential Exposed Perforations (ft)	84.0	16.3	43.3	61.1	11.7	15.6	12.6	7.0	14.1	19.7	20.9	14.4	19.5	20.6	71.3	27.8	35.7	35.7
Actual Exposed Perforations (ft)	21.1	5.4	12.4	16.9	10.3	9.8	10.7	7	5.8	16.1	11	7.4	15.9	11.5	52.1	18.7	21.6	13
October 2010																		
Date	10/25	10/27	10/27	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19	10/19
Depth To Fluid (ft)	45.6	33.3	37.8	35.1	31.0	30.8	32.5	31.0	24.6	33.5	28.7	33.2	38.0	33.5	71.1	44.8	40.2	51.2
Measured Depth to Bottom (ft)	108.8	42.0	67.3	81.3	32.7	36.6	34.7	31.1	33.0	37.8	38.9	39.4	41.4	42.5	91.2	52.8	53.6	73.6
Potential Exposed Perforations (ft)	83.8	16.0	43.3	61.3	11.7	15.6	12.7	7.1	14.0	19.8	20.9	14.4	19.4	20.5	71.2	27.8	35.6	35.6
Actual Exposed Perforations (ft)	20.6	7.3	13.8	15.1	10	9.8	10.5	7	5.6	15.5	10.7	8.2	16	11.5	51.1	19.8	22.2	13.2

Well ID	W-35	W-36	W-37	W-38	W-39	W-42R(2)	W-56R(3)	W-58R	W-59	W-60	W-68	W-69R
Total Constructed Casing Length (ft)	64	70	79	79	81	100	88	82	108	110	79	47
Total Constructed Perforated Pipe Length (ft)	46	35	62	57	62	75	64	58	71	79	44	21
August 2010												
Date	8/24	8/18	8/18	8/18	8/18	8/24	8/18	8/24	8/18	8/18	8/18	8/18
Depth To Fluid (ft)	46.1	48.8	43.0	41.8	56.6	78.1	59.6	81.3	74.3	76.2	50.5	45.2
Measured Depth to Bottom (ft)	46.1	68.4	68.3	55.6	77.6	78.2	82.8	81.6	100.9	90.7	59.7	45.7
Potential Exposed Perforations (ft)	28.1	33.4	51.3	33.6	58.6	53.2	58.8	57.6	63.9	59.7	24.7	19.7
Actual Exposed Perforations (ft)	28.1	13.8	26	19.8	37.6	53.1	35.6	57.3	37.3	45.2	15.5	19.2
September 2010												
Date	9/21	9/21	9/21	9/21	9/20	9/21	9/20	9/20	9/20	9/20	9/21	9/20
Depth To Fluid (ft)	63.0	47.1	43.1	41.7	56.8	78.0	35.3	65.1	74.4	76.3	50.5	40.9
Measured Depth to Bottom (ft)	63.0	68.6	68.3	67.6	71.4	78.0	82.6	82.1	101.0	90.8	59.7	46.0
Potential Exposed Perforations (ft)	45.0	33.6	51.3	45.6	52.4	53.0	58.6	58.1	64.0	59.8	24.7	20.0
Actual Exposed Perforations (ft)	45	12.1	26.1	19.7	37.8	53	11.3	41.1	37.4	45.3	15.5	14.9
October 2010												
Date	10/19	10/19	10/19	10/19	10/19	10/25	10/27	10/19	10/19	10/19	10/19	10/19
Depth To Fluid (ft)	46.2	48.1	43.0	41.7	56.8	78.0	52.2	72.5	74.5	76.5	50.7	40.1
Measured Depth to Bottom (ft)	46.2	68.5	68.3	67.5	72.5	78.2	83.2	82.0	101.0	90.5	59.7	45.9
Potential Exposed Perforations (ft)	28.2	33.5	51.3	45.5	53.5	53.2	59.2	58.0	64.0	59.5	24.7	19.9
Actual Exposed Perforations (ft)	28.2	13.1	26	19.7	37.8	53	28.2	48.5	37.5	45.5	15.7	14.1

Notes: Wells with boxes around data indicate the placement of a pump in that well.

Based upon discussions during the Team Countywide meeting on April 28, 2010, the table was revised to reflect potential exposed perforations (feet of constructed perforations above measured depth to bottom) and actual exposed perforations (potential exposed perforations minus measured thickness of liquid).

Table 3: West Slope Piezometer Readings

Installation Information	Piezometer I.D.	WBPZ-1 upper		WBPZ-1 lower		WBPZ-2 upper		WBPZ-3 upper		WBPZ-3 lower	
	Ground Elevation	1124.3		1124.3		1135.8		1145.7		1145.7	
	Depth to Transducer	74.5		102.0		85.5		59.5		84.5	
	Elevation of Transducer	1049.8		1022.3		1050.3		1086.2		1061.2	
		Total Head (ft)	Pore Pressure (ft H ₂ O)	Total Head (ft)	Pore Pressure (ft H ₂ O)	Total Head (ft)	Pore Pressure (ft H ₂ O)	Total Head (ft)	Pore Pressure (ft H ₂ O)	Total Head (ft)	Pore Pressure (ft H ₂ O)
"Apparent" Piezometric Surface (see Note 1)	10/16/2009	1050.1	0.34	< 1022.3	-0.01	< 1050.3	-0.05	< 1086.2	-0.24	1062.7	1.50
	11/2/2009	1050.0	0.17	< 1022.3	-0.45	< 1050.3	-0.21	< 1086.2	-0.42	1061.4	0.17
	12/1/2009	1050.2	0.39	< 1022.3	-0.49	< 1050.3	-0.27	< 1086.2	-0.52	1061.3	0.08
	1/6/2010	1049.8	0.00	< 1022.3	-0.65	< 1050.3	-0.42	< 1086.2	-0.65	< 1061.2	-0.36
	2/1/2010	< 1049.8	-0.04	< 1022.3	-0.70	< 1050.3	-0.48	< 1086.2	-0.70	< 1061.2	-0.67
	3/4/2010	1049.9	0.14	< 1022.3	-0.51	< 1050.3	-0.31	< 1086.2	-0.54	< 1061.2	-0.49
	4/8/2010	1050.1	0.33	< 1022.3	-0.35	< 1050.3	-0.14	< 1086.2	-0.35	< 1061.2	-0.39
	5/6/2010	< 1049.8	-0.15	< 1022.3	-0.80	< 1050.3	-0.62	< 1086.2	-0.81	< 1061.2	-0.75
	6/2/2010	1049.9	0.07	< 1022.3	-0.54	< 1050.3	-0.35	< 1086.2	-0.63	< 1061.2	-0.60
	7/2/2010	< 1049.8	-0.05	< 1022.3	-0.77	< 1050.3	-0.57	< 1086.2	-0.73	< 1061.2	-0.67
	8/2/2010	< 1049.8	-0.04	< 1022.3	-0.75	< 1050.3	-0.57	< 1086.2	-0.71	< 1061.2	-0.65
	9/2/2010	< 1049.8	-0.04	< 1022.3	-0.75	< 1050.3	-0.57	< 1086.2	-0.72	< 1061.2	-0.67
	10/1/2010	< 1049.8	-0.13	< 1022.3	-0.82	< 1050.3	-0.67	< 1086.2	-0.78	< 1061.2	-0.67
11/1/2010	< 1049.8	-0.16	< 1022.3	-0.9	< 1050.3	-0.69	< 1086.2	-0.82	< 1061.2	-0.7	
Trigger Elevations (see Note 2)	For F.S. < 1.5	Note 3		1048.0		1081.0		Note 3		1095.0	
	For F.S. < 1.2	Note 3		1102.0		1120.0		Note 3		1116.0	

Notes:

1. The piezometric surface is present at, or below, the elevation provided in ft.-MSL. The number in parentheses represents the water column pressure exerted on the transducer--a zero or negative pressure indicates non-saturated conditions causing soil suction.
2. If the apparent piezometric surface rises above this elevation, the trigger has occurred.
3. This is a redundant installation that can be used in event of failure of the corresponding lower transducer.

Table 4:South Slope Piezometer Readings

Installation Information	Vibrating Wire Piezometers									
	Boring I.D.	SS-7	SS-1	SS-7	SS-3	SS-3	SS-7	SS-1	SS-3	SS-5
Ground Elevation (at install)	1178.3	1177.8	1178.3	1174.5	1174.5	1178.3	1177.8	1174.5	1179.6	
Depth to Transducer (ft. at install)	12	18	17	25	22	28	17	24		
Elevation of Transducer(at install)	1166.3	1159.8	1161.3	1149.5	1152.5	1156.3	1149.8	1157.5	1155.6	
"Apparent" Piezometric Surface (see Note 1)	Pore Pressure (ft H ₂ O)									
	10/26/2009	-0.86		-0.87			-0.74	-3.24		
	10/29/2009	-0.86	-9.53	-0.87	-0.17	0.49	-0.74		3.73	0.80
	11/9/2009	-0.79	-9.46	-0.80	-0.14	0.40	-0.65		3.54	0.73
	12/1/2009	-1.16	-9.95	-1.16	-0.52	0.12	-1.01		3.28	0.35
	1/6/2010	-1.21	-9.65	-1.24	-0.13	-0.61	-1.61		3.01	-0.38
	2/1/2010	-1.00	-9.41	-1.00	-0.56	-0.29	-1.82		2.71	-0.56
	3/4/2010	-1.36	-9.71	-1.37	-0.94	-0.81	-2.04		2.08	-1.40
	4/8/2010	-1.86	-10.19	-1.95	-1.86	-1.49	-2.51		1.14	-2.47
	5/6/2010	-1.48	-9.80	-1.59	-1.64	-1.31	-2.17		0.91	-2.31
	6/2/2010	-1.66	-9.69	-1.79	-1.83	-1.51	-2.37		0.65	-2.55
	7/2/2010	-1.15	-9.24	-1.31	-1.40	-1.13	-1.90		0.89	-2.15
	8/2/2010	-1.47	-9.56	-1.68	-1.75	-1.52	-2.24		0.82	-2.52
	9/2/2010	-1.54	-9.69	-1.80	-1.56	-1.63	-2.34		0.87	-2.66
10/1/2010	-1.54	-9.82	-1.90	-1.34	-1.73	-2.39		1.02	-2.74	
11/1/2010	-1.11	-9.55	-1.58	-1.07	-1.45	-2.03		1.21	-2.42	

Notes:

- The piezometric surface is present at, or below, the elevation provided in ft.-MSL. The number in parentheses represents the water column pressure exerted on the transducer--a zero or negative pressure indicates non-saturated conditions causing soil suction.

Boring I.D.	Open Piezometers											
	SS-2R	SS-4	SS-6R	SS-8	SS-10	SS-11	SS-13	SS-14	SS-15	SS-17	SS-18	SS-19
	Depth to Fluid (Depth to Bottom) (ft)											
11/9/2009	21.8 (28.8)	23.9 (24.7)	24.8 (24.9)	21.4 (22.4)	23.1 (25.7)	19.4 (23.0)	22.8 (24.8)	13.5 (13.5)	15.0 (15.0)			
12/1/2009	21.5 (29.0)	23.9 (24.7)	24.0 (24.8)	21.4 (22.5)	22.9 (25.7)	18.0 (23.0)	22.9 (24.8)	13.5 (13.6)	14.9 (15.0)			
1/6/2010	21.3 (28.9)	23.9 (24.6)	24.0 (24.8)	21.5 (22.3)	22.9 (25.6)	18.0 (22.9)	22.9 (24.8)	13.5 (13.5)	15.0 (15.0)			
2/1/2010	22.8 (29.0)	24.1 (24.7)	24.1 (24.8)	21.7 (22.5)	24.0 (25.7)	20.2 (23.0)	23.1 (24.8)	13.6 (13.6)	15.0 (15.0)			
3/4/2010	22.6 (28.9)	23.9 (24.7)	24.0 (24.9)	21.7 (22.4)	23.8 (25.7)	19.8 (23.0)	23.0 (24.8)	13.5 (13.5)	15.0 (15.0)			
4/8/2010	29.0 (29.0)	24.2 (24.6)	24.7 (24.9)	22.5 (22.5)	25.7 (25.7)	23.0 (23.0)	24.9 (24.9)	13.5 (13.5)	15.1 (15.1)			
5/6/2010	23.5 (29.0)	24.4 (24.6)	24.9 (24.9)	21.9 (22.4)	24.9 (25.7)	20.9 (22.9)	23.0 (24.8)	12.3 (13.5)	15.0 (15.0)			
6/2/2010	23.9 (29.1)	24.4 (24.7)	24.9 (24.9)	22.2 (22.4)	25.0 (25.7)	20.9 (23.2)	17.0 (24.9)	11.9 (13.5)	15.0 (15.0)			
7/2/2010	24.3 (29.0)	24.4 (24.7)	24.9 (24.9)	22.2 (22.4)	25.1 (25.7)	21.1 (23.2)	23.0 (25.2)	11.9 (13.5)	15.0 (15.0)			
8/2/2010	24.6 (29.1)	24.5 (24.7)	24.9 (24.9)	22.3 (22.5)	25.3 (25.7)	21.5 (23.2)	23.0 (25.2)	11.6 (13.5)	15.0 (15.0)	Dry (24.8)	31.6 (32.0)	30.9 (30.9)
9/2/2010	24.9 (29.1)	24.5 (24.7)	24.9 (24.9)	22.3 (22.5)	25.3 (25.7)	21.9 (23.2)	23.2 (25.2)	11.6 (13.5)	15.0 (15.0)	24.8 (24.8)	Dry (32.0)	30.9 (30.9)
10/1/2010	25.5 (29.1)	24.3 (24.7)	24.9 (24.9)	22.3 (22.4)	25.4 (25.7)	22.2 (23.2)	23.3 (25.2)	12.2 (13.5)	15.0 (15.1)	24.7 (24.8)	Dry (32.0)	30.9 (30.9)
11/1/2010	26.0 (29.2)	24.1 (24.7)	24.9 (24.9)	22.3 (22.4)	25.3 (25.7)	22.6 (23.2)	23.2 (25.1)	12.8 (13.5)	15.0 (15.0)	24.6 (24.8)	Dry (32.0)	Dry (30.9)

Attachment 3

Figures

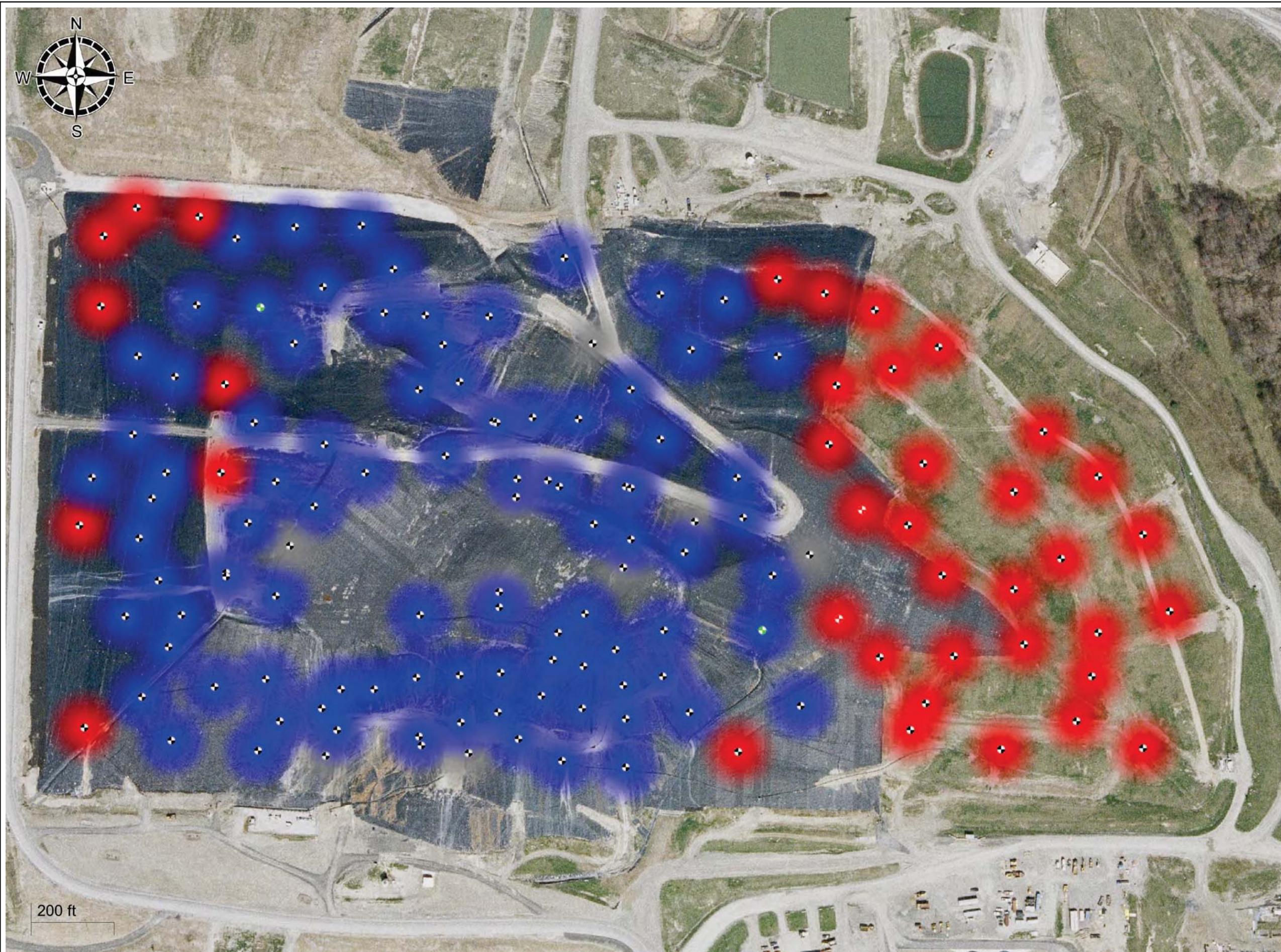


Figure 1
Average Methane to Carbon Dioxide Ratio
 Countywide Recycling and Disposal Facility
 3619 Gracemont St. S.W.
 East Sparta, Ohio

Operation, Monitoring and Maintenance (OM&M) Plan
 Monthly Report

Color Legend

< 1
 > 1

Symbol Legend

Gas Well

(Red symbol denotes rise in value category from previous reporting period.)
(Green symbol denotes decrease in value category from previous reporting period.)

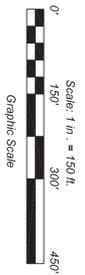
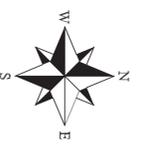
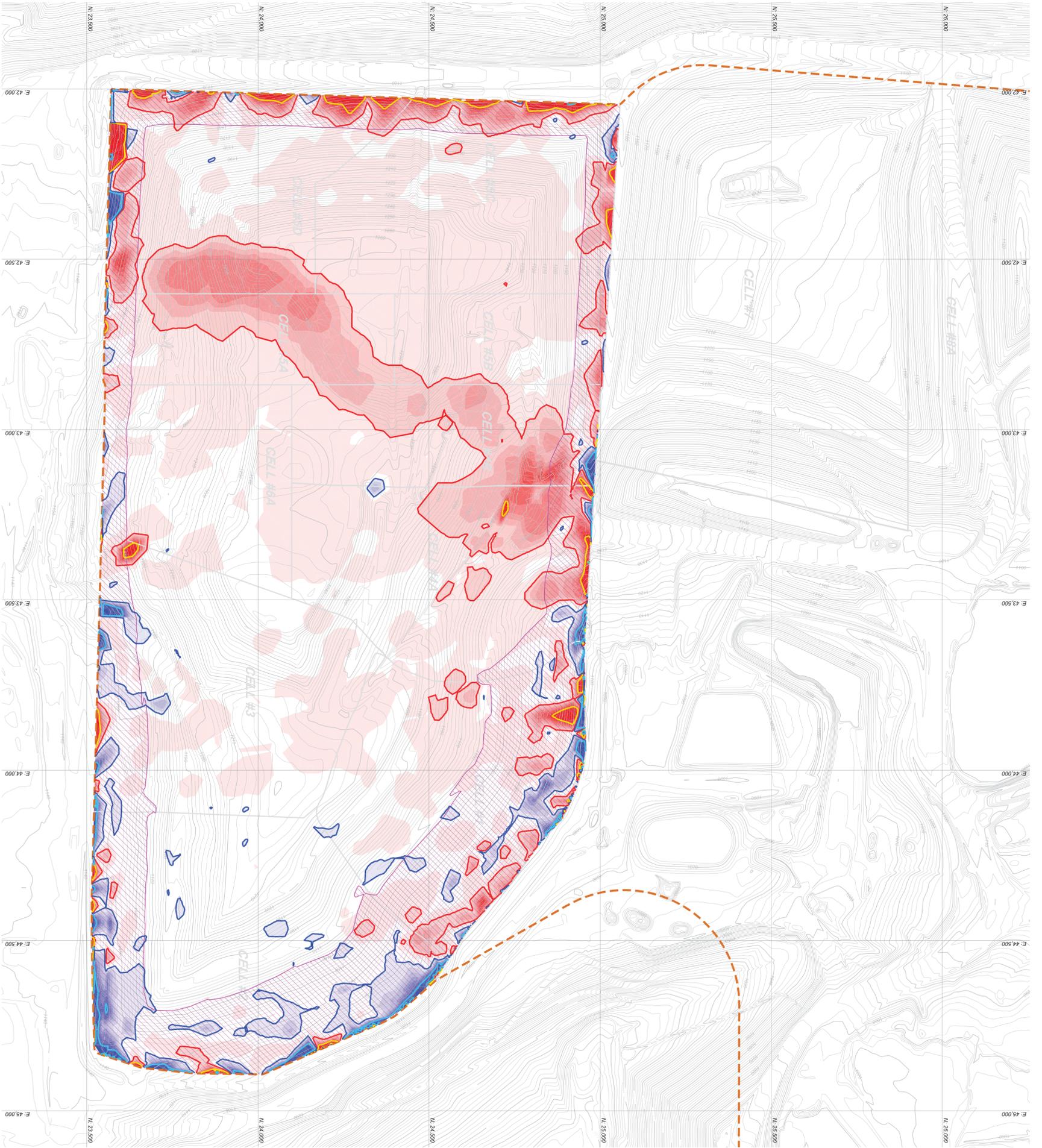
A radius influence of 100 feet is assumed at each device.

Reporting Period: October, 2010

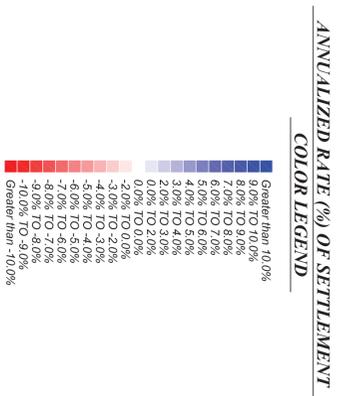
Map Generated On: 11/08/2010



200 ft



- LEGEND:**
- 1:20 — EXISTING CONTOUR (AERIAL MAPPING 4/12/10), CTR INT. = 2' (SHOWN FOR REFERENCE ONLY)
 - 2% RATE OF SETTLEMENT LIMIT
 - >10% RATE OF SETTLEMENT LIMIT
 - 2% RATE OF RISE IN ELEVATION
 - >10% RATE OF RISE IN ELEVATION
 - ≤ 60ft OF WASTE DEPTH



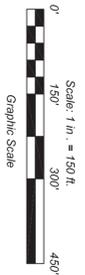
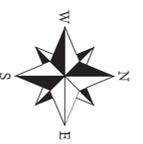
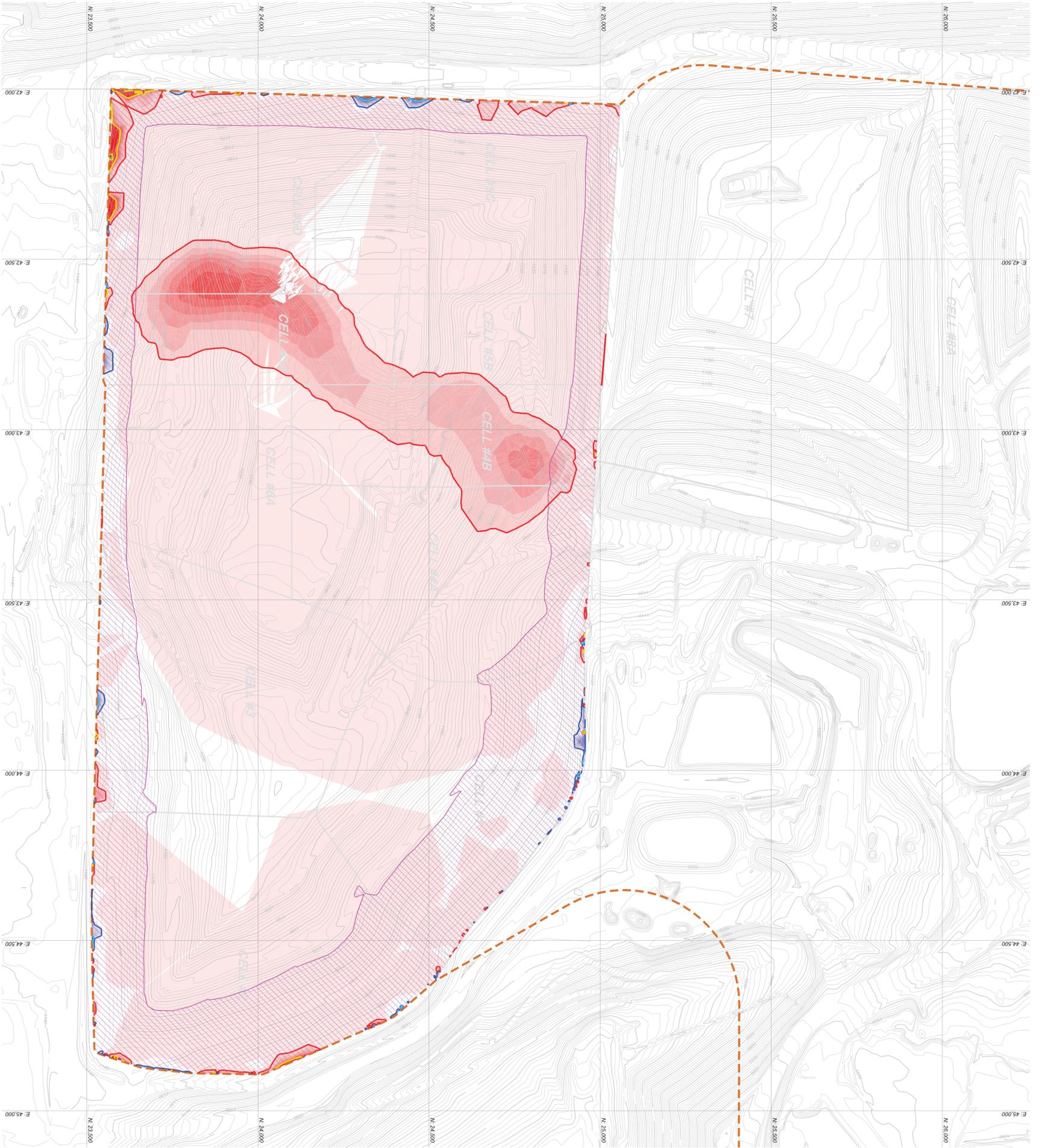
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SURVEYED BY	MD/AG	CHECKED BY	CCV			
DRAWN BY	BWS	APPROVED BY	CRB			
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY



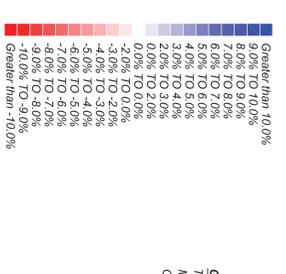
COUNTYWIDE RDF

PROJECT: **88 Ac. REMEDIATION UNIT**

SHEET TITLE: **INCREMENTAL SETTLEMENT MAP (OCTOBER 2010)**



- LEGEND:**
- 1:20 — EXISTING CONTOUR (AERIAL MAPPING 4/12/10), CTR INT. = 2' (SHOWN FOR REFERENCE ONLY)
 - 2% RATE OF SETTLEMENT LIMIT
 - >10% RATE OF SETTLEMENT LIMIT
 - >10% RATE OF RISE IN ELEVATION
 - >10% RATE OF RISE IN ELEVATION
 - ≤ 60ft OF WASTE DEPTH



GENERAL NOTE:
THIS MAP REPRESENTS THE AVERAGE ANNUALIZED MONTHLY SETTLEMENT FOR THE TIME PERIOD FROM OCTOBER 2009 THRU OCTOBER 2010.

AVERAGE ANNUALIZED MONTHLY RATE (%) OF SETTLEMENT COLOR LEGEND

ISSUE DATE	11/02/10	SCALE	1" = 150'	CTR INT.	2'	
SURVEYED BY	MO/AG	CHECKED BY	CCV			
DRAWN BY	BWS	APPROVED BY	CRB			
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY



COUNTYWIDE RDF

PROJECT: 88 Ac. REMEDIATION UNIT

SHEET TITLE: AVERAGE ANNUALIZED MONTHLY SETTLEMENT (OCTOBER 2009 - OCTOBER 2010)

FIGURE: **2A**



Figure 3
Average Wellhead
Temperature
Countywide Recycling
and Disposal Facility
3619 Gracemont St. S.W.
East Sparta, Ohio

Operation, Monitoring and Maintenance (OM&M) Plan
Monthly Report

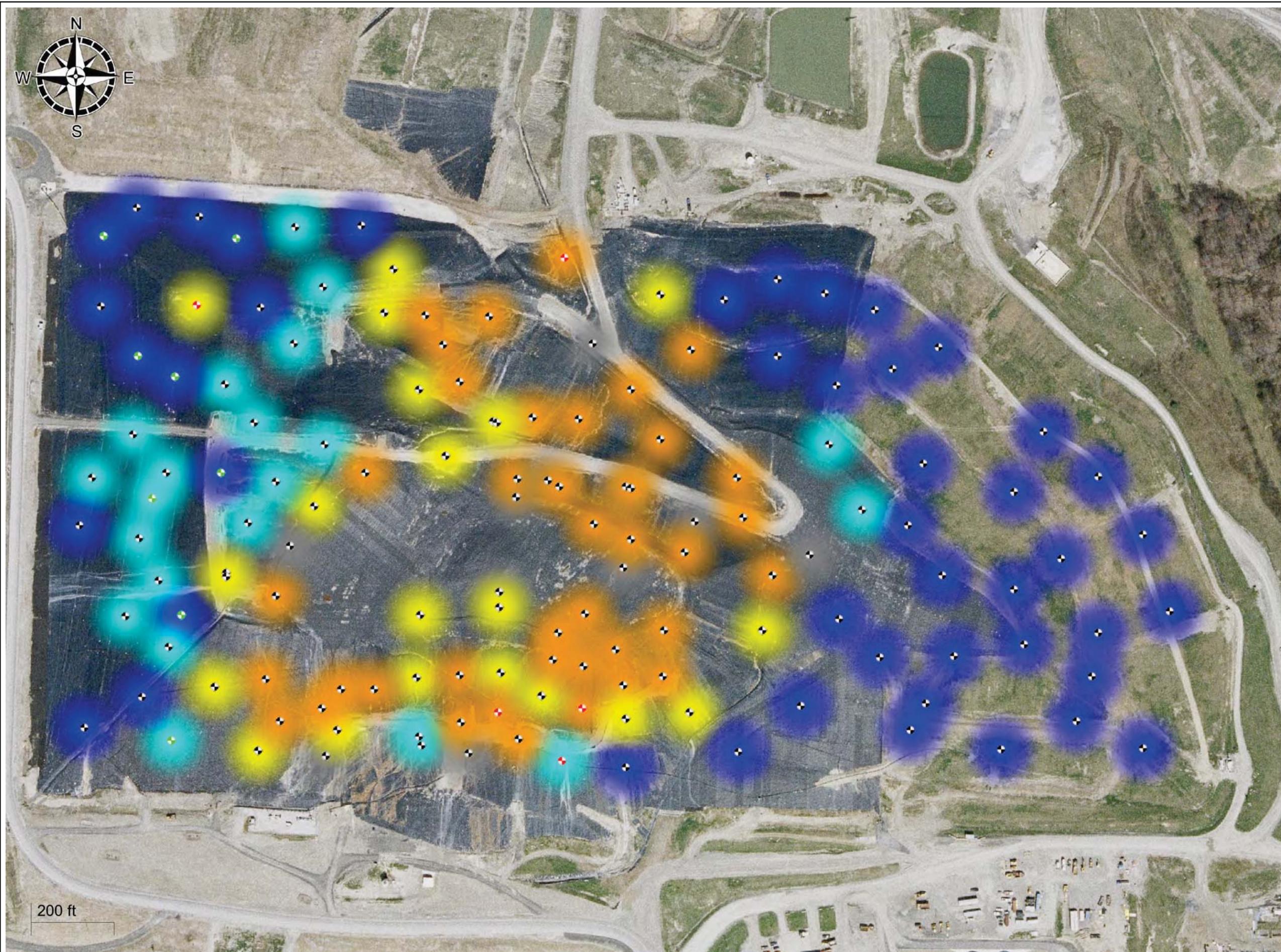
Color Legend (deg F)

< 131
131 < 150
150 < 180
180 < 210
> 210

Symbol Legend

 Gas Well

(Red symbol denotes rise in value category from previous reporting period.)
(Green symbol denotes decrease in value category from previous reporting period.)



200 ft

A radius influence of 100 feet is assumed at each device.

Reporting Period: October, 2010

Map Generated On: 11/08/2010



SANBORN HEAD
LANDFILL GAS MANAGEMENT SUITE™

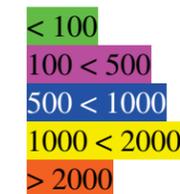


Figure 4 Carbon Monoxide Distribution

Countywide Recycling
and Disposal Facility
3619 Gracemont St. S.W.
East Sparta, Ohio

Operation, Monitoring and Maintenance (OM&M) Plan
Monthly Report

Color Legend (ppm)



Symbol Legend

 Gas Well

*(Red symbol denotes rise
in value category from
previous reporting period.)
(Green symbol denotes de-
crease in value category from
previous reporting period.)*

A radius influence of 100 feet
is assumed at each device.

Reporting Period: August, 2010

Map Generated On: 11/08/2010



SANBORN HEAD
LANDFILL GAS MANAGEMENT SUITE™

200 ft

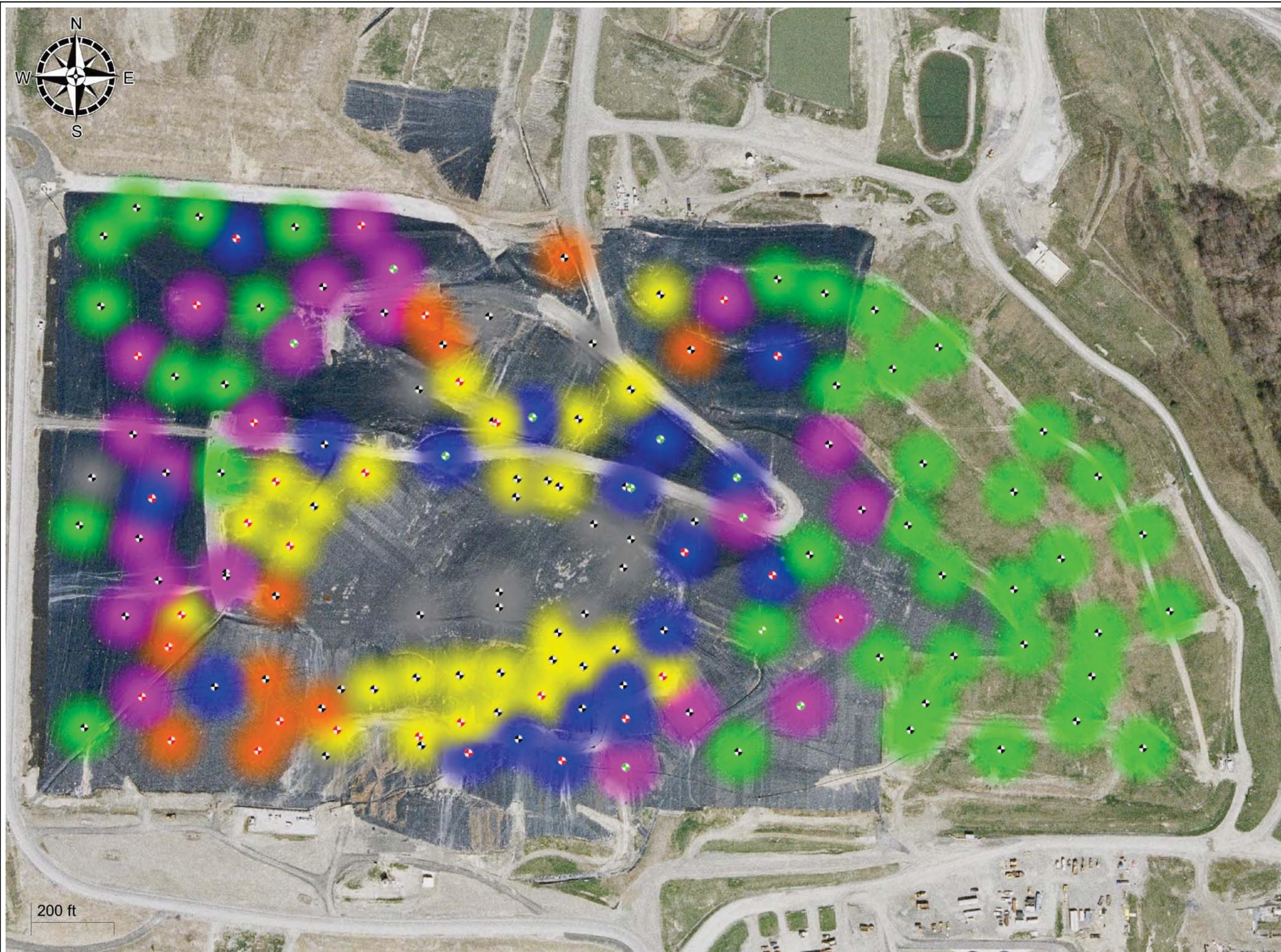
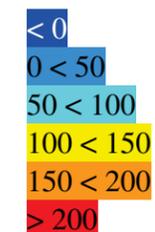




Figure 5
"Deadhead" Gas Well
Pressure Distribution
Countywide Recycling
and Disposal Facility
3619 Gracemont St. S.W.
East Sparta, Ohio

Operation, Monitoring and Maintenance (OM&M) Plan
Monthly Report

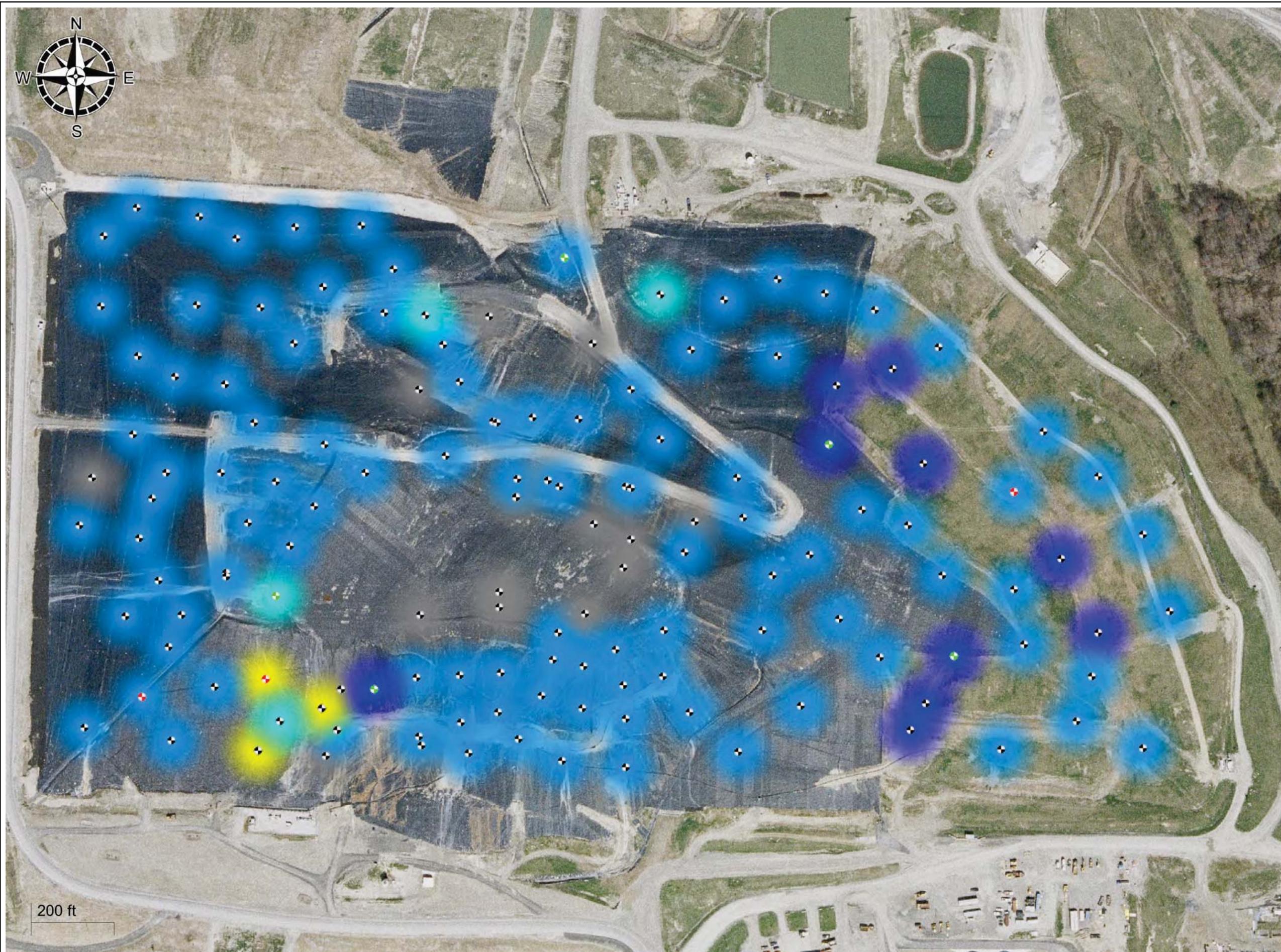
Color Legend (inches H₂O)



Symbol Legend



(Red symbol denotes rise in value category from previous reporting period.)
(Green symbol denotes decrease in value category from previous reporting period.)



A radius influence of 100 feet is assumed at each device.

Reporting Period: August, 2010

Map Generated On: 11/08/2010



SANBORN HEAD
LANDFILL GAS MANAGEMENT SUITE™

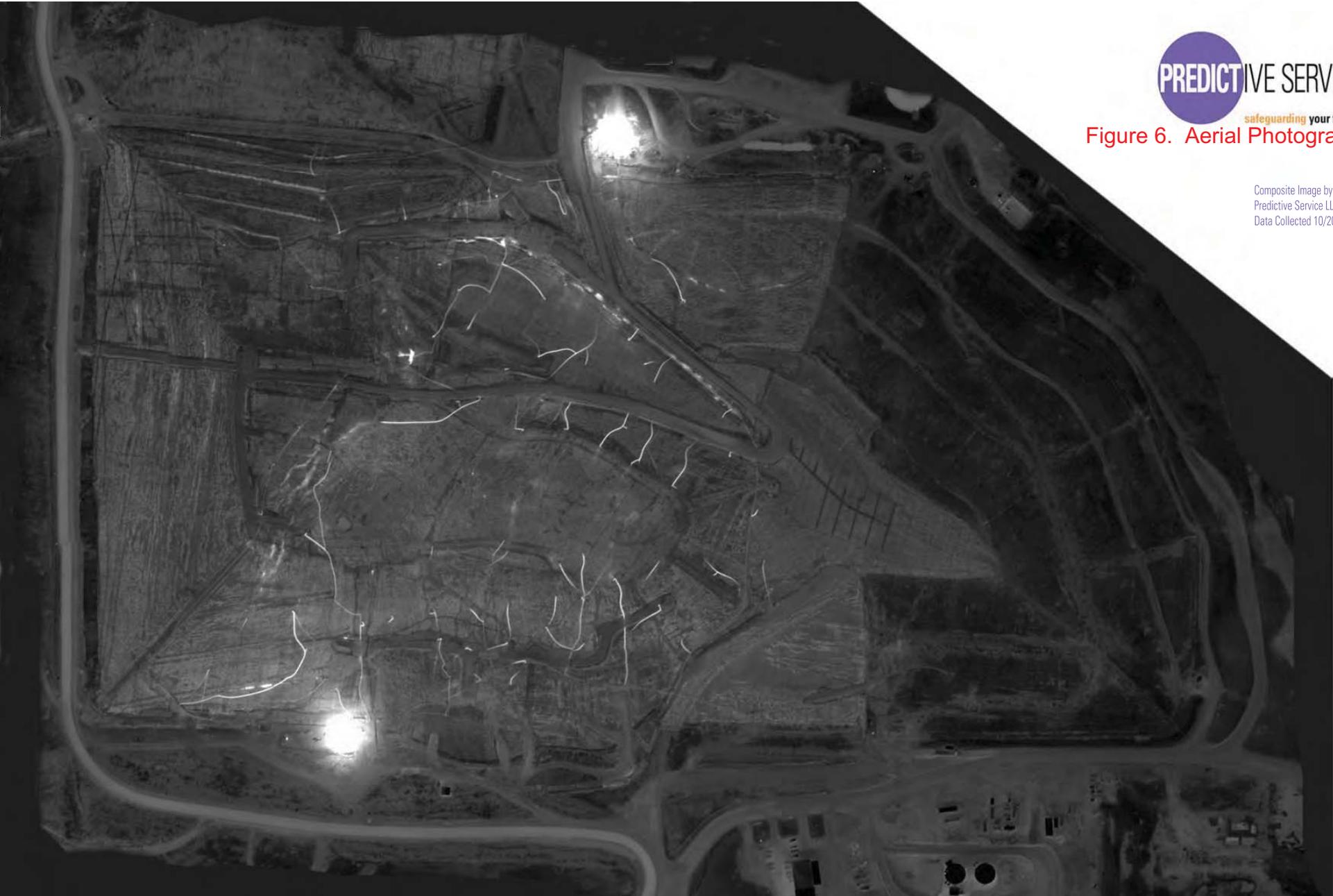


Figure 6. Aerial Photograph

Composite Image by
Predictive Service LLC, 216.378.3500
Data Collected 10/20/2010

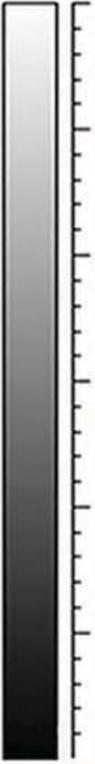
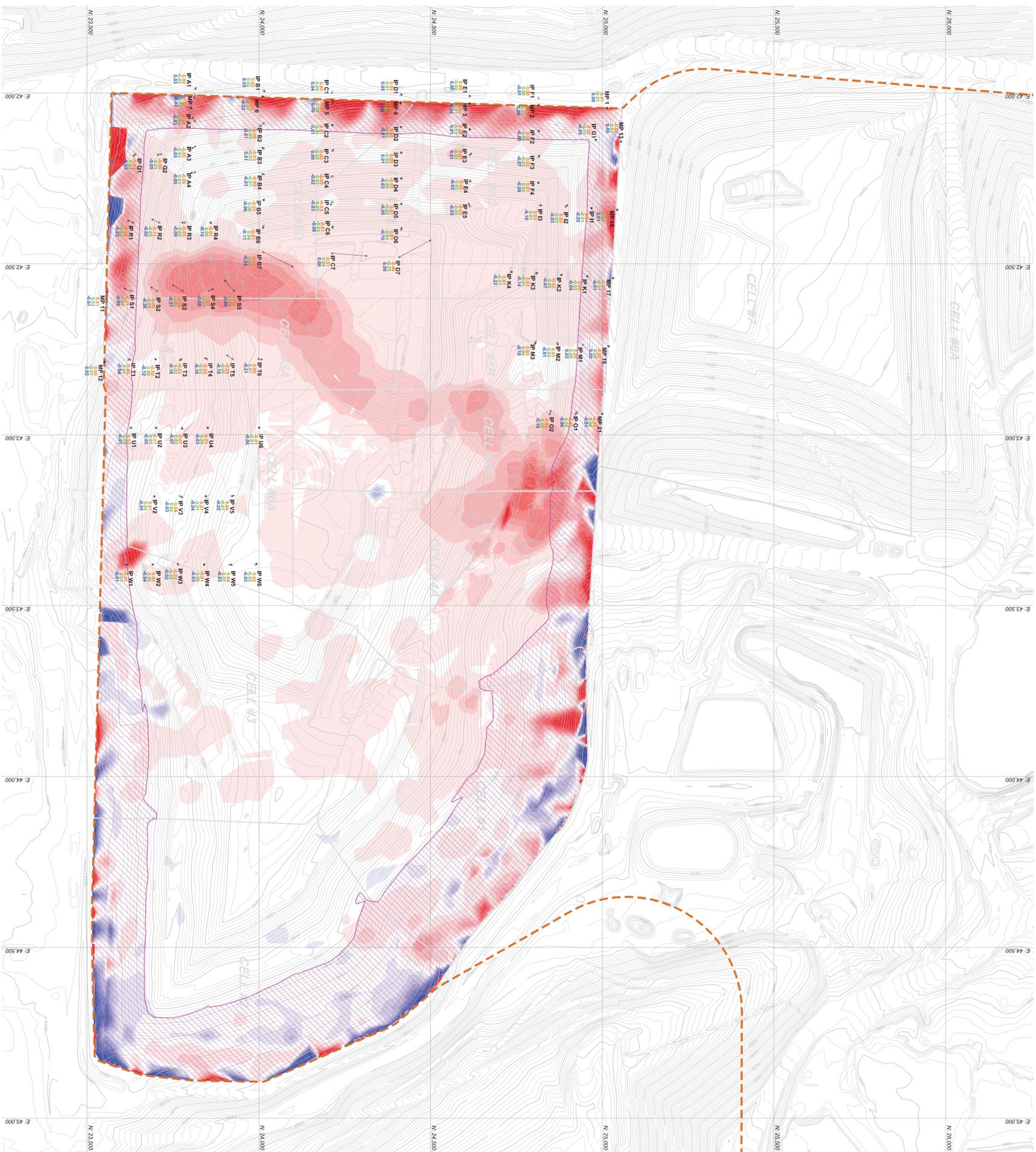


Figure 7. Detailed Aerial Photograph

Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 10/20/2010



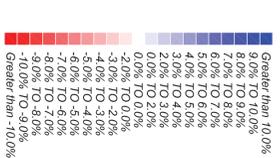


LEGEND:

— 1:20 — EXISTING CONTOUR (AERIAL MAPPING 4/12/10). CTR INT. = 2'
 (SHOWN FOR REFERENCE ONLY)

▨ ≤ 60" OF WASTE DEPTH

ANNUALIZED RATE (%) OF SETTLEMENT



VECTOR LABELING CONVENTION:



- GENERAL NOTES:**
- 1) SLOPE PIN MOVEMENT VECTORS WERE PROVIDED BY P.J. CAREY & ASSOCIATES, P.C.
 - 2) VECTORS DEMONSTRATE THE HORIZONTAL MOVEMENT BETWEEN THE DATES OF 9/28/10 & 10/28/10

Attachment 4

Pin Movement Evaluation

November 3, 2010

Mr. Michael Darnell
Division Manager
Republic Services
Countywide RDF
3619 Gracemont Street, SW
East Sparta, Ohio 44626

RE: Evaluation of Pin Movements
Countywide Slopes
September Period (9/28/10 - 10/26/10)

Dear Mike,

We have reviewed the pin survey data from the South, West and North Slopes at Countywide. The surveys were performed during the October monitoring period (9/28/10-10/26/10) by Diversified Engineering, Inc. (DEI) using optical survey methods for all but three of the pins (IP B7, C7, and D7), where GPS was utilized for the 9/28/2010 readings only. Subsequent readings for these three pins were by optical methods.

The survey data has been presented in accordance with Section 6.5.4 of the Operation, Maintenance and Monitoring Plan, creating Figures 11 through 16 only for those points exceeding the trigger levels, as requested by Jerry Parker of the OH EPA. In addition, two vector plot maps that depict the horizontal pin movements for the monitoring period and since the onset of monitoring (October 6, 2009) are attached. Two tables which show the horizontal rate of movement for the monitoring period and elevation motion since the original monitoring survey (October 6, 2009) are attached after the aforementioned figures. Please note the at the reference elevation for pin IP-F1 has been adjusted, as per the agreement with OH EPA, beginning at the beginning of the April readings. This is noted on the vector plots depicting movements during this reporting period and since the beginning of the monitoring.

A review of the data shows:

- No pins exceeded the trigger rate of 0.05 ft per day of horizontal movement during the monitoring period.
- Monitoring pin MP-4 exceeded the vertical trigger of more than 0.05 ft of upward motion since inception of monitoring.

A plot is attached of pin movement for the D line which includes MP-4. As can be seen on Figure 16, the plot showing change in elevation for the D line and MP-4, elevation changes do not present any pattern with time. This is the same for their northing and easting changes. A vector plot along the D profile line is also included. The plots of the D line do not

indicate any changes in the ongoing trends since the inception of monitoring that would be indicative of any slope instability related behavior. Monitoring pin MP-4 has been moving very slowly upward since November 2009, with an average upward motion rate of less than 0.002 ft per year. This is an insignificant rate of movement and should not trigger monitoring at any increased frequency. Consideration should be given to resetting the trigger point for MP 4 and MP 5, both of which have shown very minor upward movement not related to any slope instability related behavior

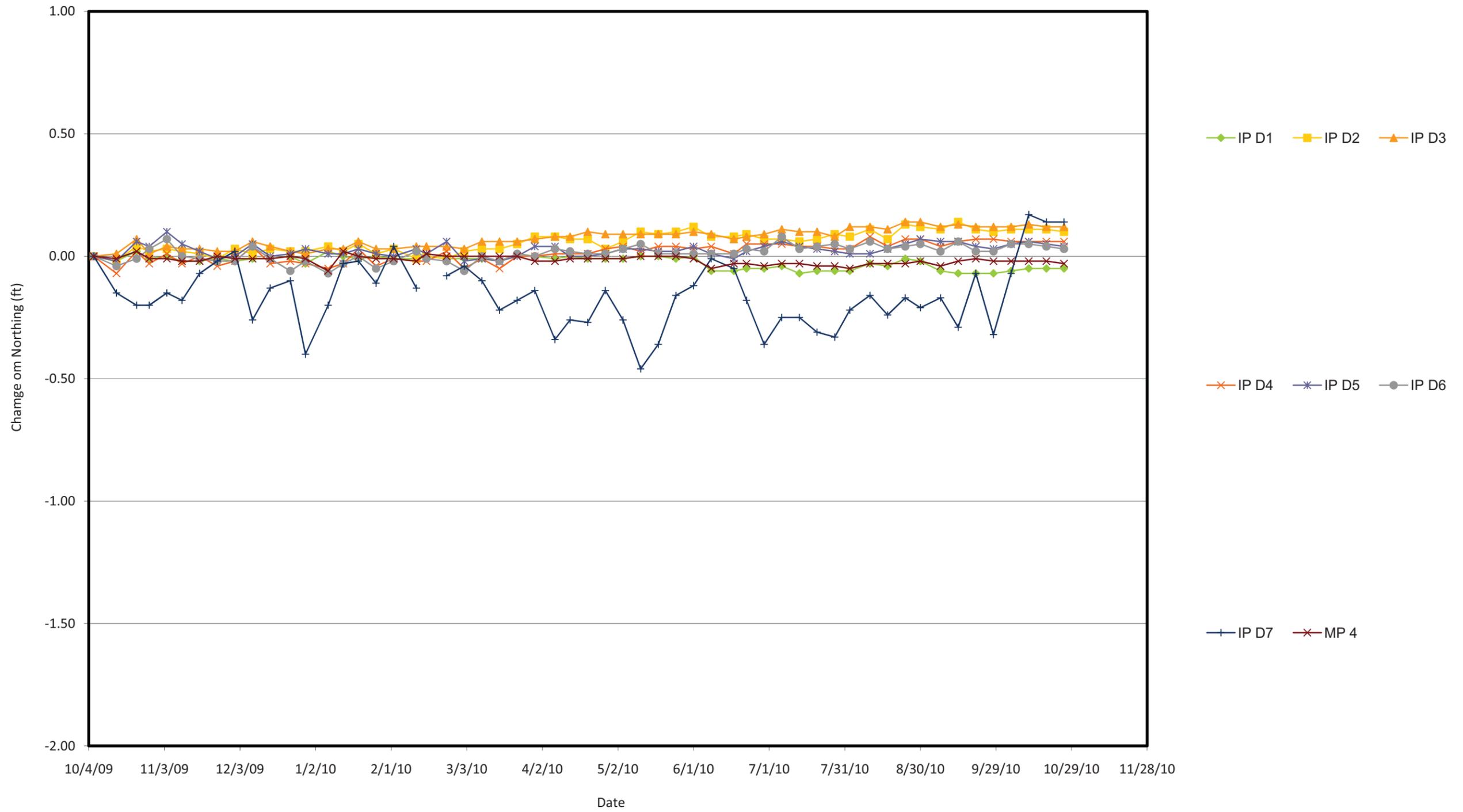
Based on the review of the data, no signs of instability are indicated. I hope this information is helpful to you. Please call if there are any questions.

Sincerely,

A handwritten signature in blue ink that reads "Peter J. Carey". The signature is written in a cursive, flowing style.

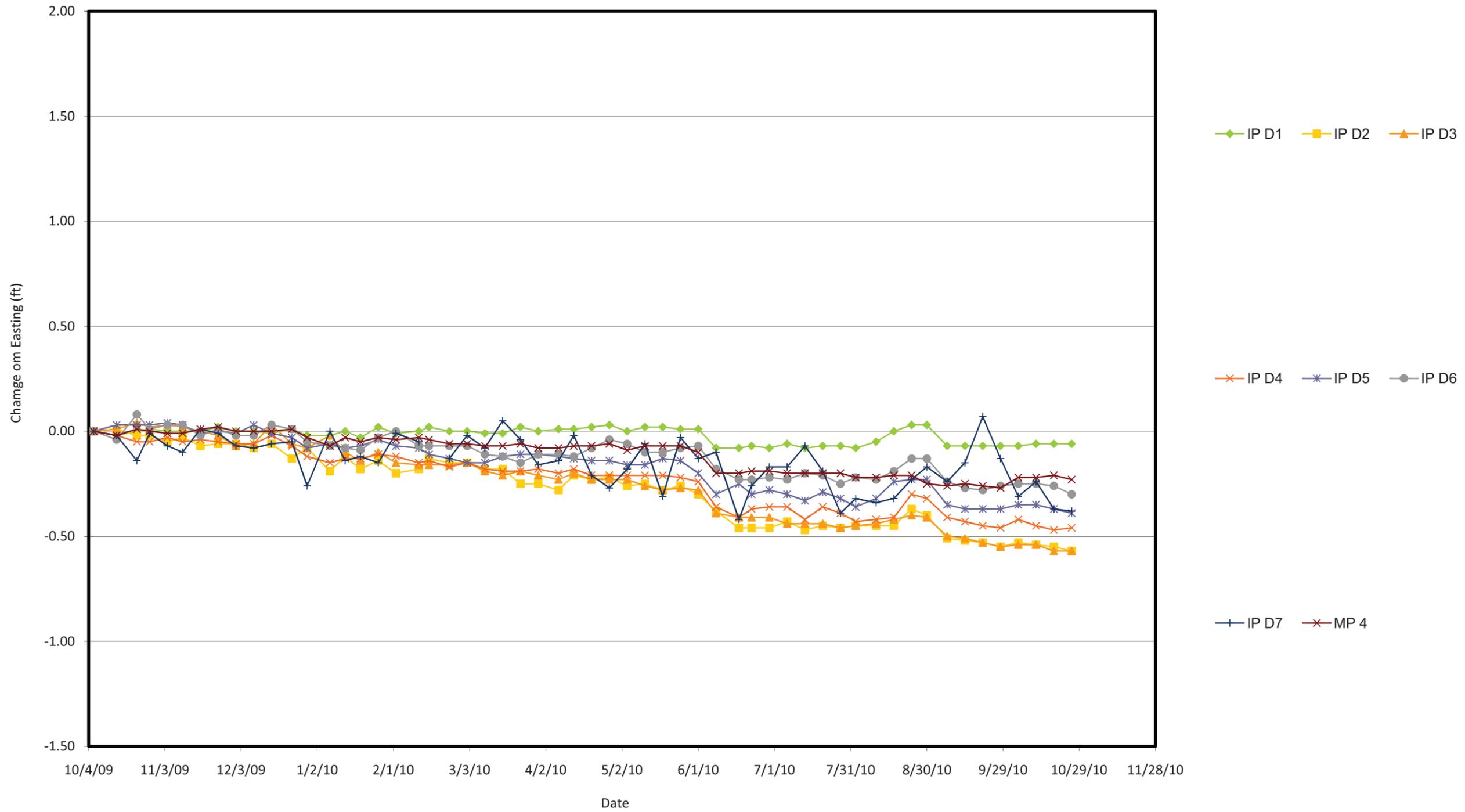
Peter J. Carey, PE
President

Graph 14 - West Slope Pin Movement
 For Pins that Exceeded a Trigger During Reporting Month
 Northing Change



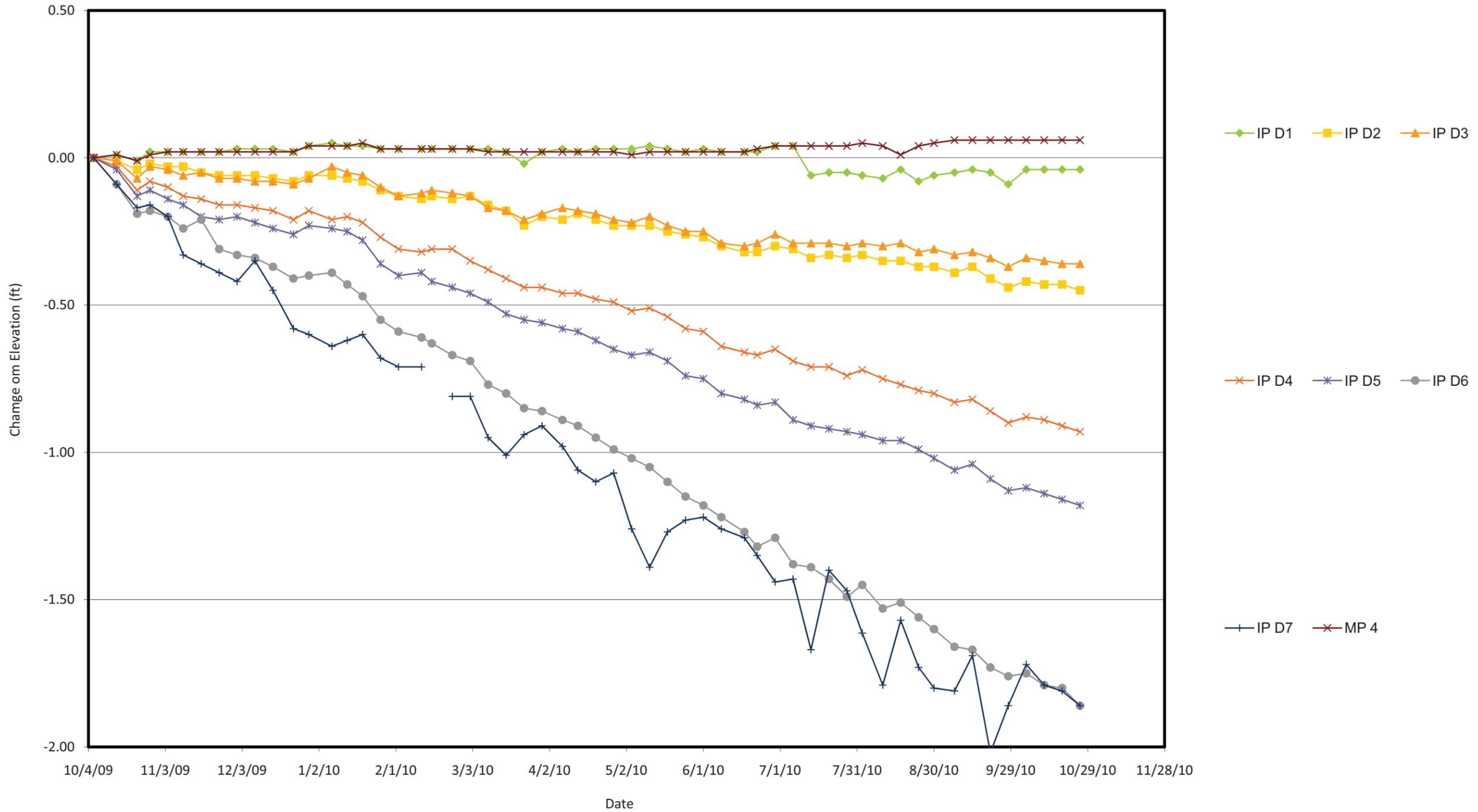
1. Data compiled by PJ Carey Associates, PC.
 2. Survey provided by DEI beginning on October 5, 2009.

Graph 15 - West Slope Pin Movement
 For Pins that Exceeded a Trigger During Reporting Month
 Easting Change



1. Data compiled by PJ Carey Associates, PC.
 2. Survey provided by DEI beginning on October 5, 2009.

Graph 16 - West Slope Pin Movement
 For Pins that Exceeded a Trigger During Reporting Month
 Elevation Change



1. Data compiled by PJ Carey Associates, PC.
 2. Survey provided by DEI beginning on October 5, 2009.

HORIZONTAL RATE OF MOVEMENT (FT/DAY)
 CALCULATED BASED ON PREVIOUS READING AT EACH POINT

ID	10/5/10	10/12/10	10/19/10	10/26/10
IP G1	0.0014	0.0029	0.0000	0.0000
IP I1	0.0000	0.0020	0.0032	0.0032
IP I2	0.0020	0.0014	0.0032	0.0040
IP I3	0.0020	0.0040	0.0032	0.0014
IP K1	0.0014	0.0020	0.0000	0.0014
IP K2	0.0020	0.0040	0.0014	0.0032
IP K3	0.0000	0.0045	0.0032	0.0032
IP K4	0.0043	0.0059	0.0032	0.0032
IP M1	0.0014	0.0020	0.0029	0.0032
IP M2	0.0052	0.0064	0.0032	0.0000
IP M3	0.0064	0.0052	0.0029	0.0014
IP O1	0.0029	0.0014	0.0000	0.0032
IP O2	0.0014	0.0029	0.0045	0.0043
MP 13	0.0014	0.0014	0.0000	0.0032
MP 15	0.0032	0.0029	0.0032	0.0032
MP 17	0.0014	0.0014	0.0020	0.0029
MP 19	0.0032	0.0014	0.0020	0.0029
MP 21	0.0014	0.0000	0.0014	0.0000
IP R1	0.0014	0.0064	0.0057	0.0043
IP R2	0.0032	0.0052	0.0057	0.0045
IP R3	0.0014	0.0014	0.0043	0.0045
IP R4	0.0032	0.0020	0.0014	0.0014
IP S1	0.0032	0.0073	0.0064	0.0000
IP S2	0.0052	0.0043	0.0052	0.012
IP S3	0.0043	0.0064	0.0032	0.018
IP S4	0.021	0.0077	0.0000	0.011
IP S5	0.0014	0.0091	0.0045	0.017
IP T1	0.0052	0.0020	0.0020	0.0000
IP T2	0.0032	0.0014	0.0040	0.0061
IP T3	0.0059	0.0052	0.0014	0.0029
IP T4	0.0014	0.0032	0.0020	0.0064
IP T5	0.0014	0.0052	0.0071	0.0045
IP T6	0.0045	0.0029	0.0096	0.0045
IP U1	0.0020	0.0043	0.0014	0.0014
IP U2	0.0014	0.0020	0.0014	0.0000
IP U3	0.0061	0.0029	0.0014	0.0014
IP U4	0.0032	0.0014	0.0043	0.0064
IP U5				
IP U6	0.0032	0.0000	0.0045	0.0032
IP V1				
IP V2	0.0040	0.0000	0.0014	0.0000
IP V3	0.0040	0.0032	0.0032	0.0029
IP V4	0.0052	0.0000	0.0029	0.0059
IP V5	0.0040	0.0014	0.0043	0.0032
IP V6				
IP W1	0.0020	0.0045	0.0000	0.0014
IP W2	0.0029	0.0029	0.0000	0.0029
IP W3	0.0059	0.0032	0.0052	0.0071
IP W4	0.0032	0.0029	0.0014	0.0014
IP W5	0.0032	0.0032	0.0071	0.0029
IP W6	0.0029	0.0045	0.0077	0.0083

HORIZONTAL RATE OF MOVEMENT (FT/DAY)
CALCULATED BASED ON PREVIOUS READING AT EACH POINT

ID	10/5/10	10/12/10	10/19/10	10/26/10
MP 10				
MP 11	0.0052	0.0000	0.0052	0.0032
MP 12	0.0029	0.0014	0.0040	0.0040
IP A1	0.0040	0.0020	0.0014	0.0014
IP A2	0.0029	0.0090	0.0000	0.0000
IP A3	0.0032	0.0029	0.0043	0.0000
IP A4	0.0064	0.0064	0.0014	0.0040
IP B1	0.0029	0.0032	0.0014	0.0000
IP B2	0.0029	0.0073	0.0014	0.0029
IP B3	0.0032	0.0071	0.0000	0.0032
IP B4	0.0032	0.0014	0.0000	0.0000
IP B5	0.0032	0.0014	0.0020	0.0032
IP B6	0.0000	0.0064	0.0059	0.0064
IP B7*	0.03	0.03	0.02	0.006
IP C1	0.0020	0.0000	0.0014	0.0032
IP C2	0.0014	0.0014	0.0040	0.0032
IP C3	0.0040	0.0020	0.0040	0.0020
IP C4	0.0020	0.0100	0.0014	0.0014
IP C5	0.0052	0.0014	0.0052	0.0032
IP C6	0.0032	0.0032	0.0000	0.011
IP C7*	0.03	0.04	0.02	0.003
IP D1	0.0014	0.0020	0.0000	0.0000
IP D2	0.0032	0.0014	0.0014	0.0032
IP D3	0.0014	0.0014	0.0045	0.0000
IP D4	0.0059	0.0043	0.0029	0.0014
IP D5	0.0040	0.0014	0.0032	0.0032
IP D6	0.0045	0.0000	0.0020	0.0059
IP D7*	0.04	0.04	0.02	0.001
IP E1	0.0020	0.0000	0.0014	0.0032
IP E2	0.0014	0.0040	0.0061	0.0000
IP E3	0.0096	0.0043	0.0000	0.0000
IP E4	0.0045	0.0014	0.0000	0.0014
IP E5	0.0020	0.0020	0.0014	0.0064
IP F1	0.0000	0.0000	0.0000	0.0000
IP F2	0.0000	0.0020	0.0032	0.0000
IP F3	0.0045	0.0032	0.0000	0.0000
IP F4	0.0032	0.0064	0.0014	0.0032
IP Q1	0.0032	0.0032	0.0045	0.0000
IP Q2	0.0020	0.0014	0.0029	0.0029
MP 1	0.0020	0.0032	0.0032	0.0000
MP 2	0.0032	0.0000	0.0032	0.0000
MP 3	0.0014	0.0032	0.0000	0.0032
MP 4	0.0071	0.0000	0.0014	0.0032
MP 5	0.0014	0.0032	0.0043	0.0000
MP 6	0.0014	0.0020	0.0000	0.0032
MP 7	0.0057	0.0059	0.0045	0.0000
MP 8				
MP 9	0.0014	0.0000		

Notes:

1. Data compiled by PJ Carey & Associates, PC.
2. Survey provided by DEI beginning on October 6, 2009.
3. Highlighted regions indicate pins which the horizontal rate of movement exceed the trigger value of 0.05
4. Pins were surveyed using optical methods, except B7, C7, & D7 which used GPS.
5. Values reported are limited to their respective significant digit.

**CHANGE IN ELEVATION (FT)
CALCULATED BASED ON ORIGINAL SURVEY DATE OF 10-06-09**

ID	10/5/10	10/12/10	10/19/10	10/26/10
IP G1	-0.70	-0.72	-0.73	-0.73
IP I1	-0.15	-0.18	-0.18	-0.17
IP I2	-0.26	-0.28	-0.28	-0.29
IP I3	-1.01	-1.07	-1.08	-1.10
IP K1	-0.04	-0.07	-0.07	-0.06
IP K2	-0.29	-0.35	-0.36	-0.35
IP K3	-1.23	-1.30	-1.31	-1.35
IP K4	-2.51	-2.60	-2.62	-2.66
IP M1	-0.07	-0.06	-0.05	-0.05
IP M2	-0.50	-0.50	-0.50	-0.50
IP M3	-1.28	-1.33	-1.32	-1.36
IP O1	-0.29	-0.33	-0.32	-0.32
IP O2	-1.33	-1.38	-1.40	-1.42
MP 13	-0.01	-0.01	-0.01	-0.01
MP 15	-0.01	-0.02	-0.02	-0.01
MP 17	0.01	-0.01	-0.01	-0.01
MP 19	-0.04	-0.04	-0.04	-0.03
MP 21	-0.03	-0.05	-0.05	-0.04
IP R1	-0.27	-0.29	-0.29	-0.31
IP R2	-0.30	-0.34	-0.34	-0.34
IP R3	-0.78	-0.82	-0.84	-0.86
IP R4	-1.30	-1.33	-1.36	-1.43
IP S1	-1.09	-1.15	-1.14	-1.17
IP S2	-3.09	-3.18	-3.21	-3.29
IP S3	-9.16	-9.34	-9.45	-9.60
IP S4	-13.57	-13.78	-13.91	-14.11
IP S5	-15.25	-15.48	-15.66	-15.90
IP T1	-0.76	-0.78	-0.79	-0.79
IP T2	-2.04	-2.08	-2.08	-2.14
IP T3	-3.06	-3.12	-3.13	-3.20
IP T4	-3.45	-3.52	-3.51	-3.60
IP T5	-3.60	-3.70	-3.71	-3.77
IP T6	-4.43	-4.51	-4.53	-4.62
IP U1	-0.22	-0.23	-0.24	-0.24
IP U2	-0.57	-0.59	-0.59	-0.60
IP U3	-1.17	-1.18	-1.19	-1.23
IP U4	-1.15	-1.18	-1.18	-1.18
IP U5				
IP U6	-2.10	-2.13	-2.13	-2.16
IP V1				
IP V2	-0.79	-0.82	-0.83	-0.84
IP V3	-0.69	-0.71	-0.73	-0.72
IP V4	-0.86	-0.89	-0.89	-0.90
IP V5	-0.99	-1.00	-1.00	-1.01
IP V6				
IP W1	-0.19	-0.21	-0.20	-0.21
IP W2	-0.42	-0.43	-0.45	-0.44
IP W3	-0.45	-0.46	-0.48	-0.48
IP W4	-0.44	-0.46	-0.48	-0.47
IP W5	-0.79	-0.81	-0.82	-0.83
IP W6	-0.76	-0.76	-0.77	-0.78

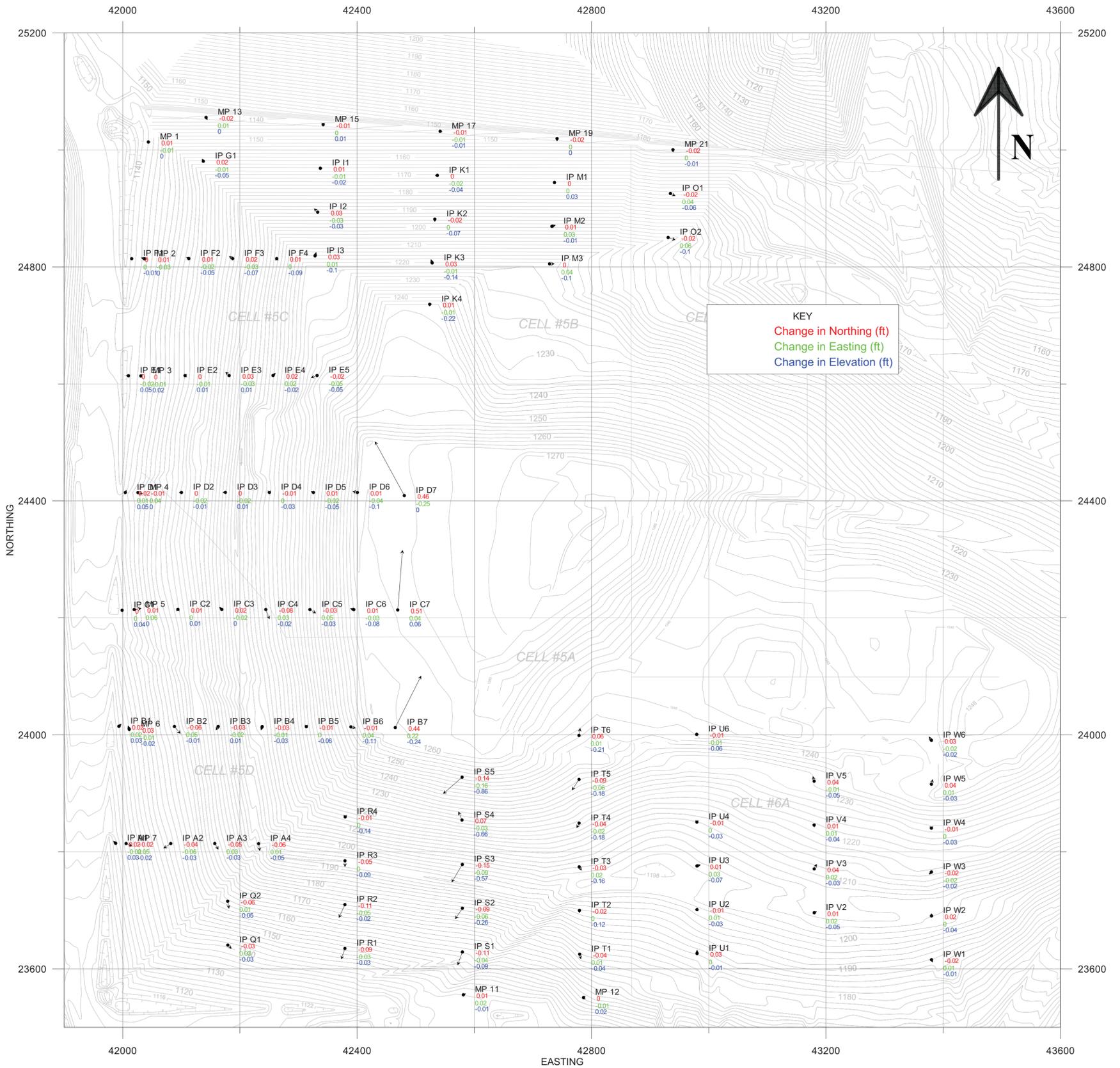
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 6, 2009.
3. Highlighted regions indicate points which there was a positive change greater than 0.05 ft in elevation since October 6, 2009.

**CHANGE IN ELEVATION (FT)
CALCULATED BASED ON ORIGINAL SURVEY DATE OF 10-06-09**

ID	10/5/10	10/12/10	10/19/10	10/26/10
MP 10				
MP 11	0.01	0.00	0.00	0.00
MP 12	-0.10	-0.09	-0.10	-0.08
IP A1	-0.04	-0.04	-0.04	-0.03
IP A2	-0.36	-0.37	-0.38	-0.38
IP A3	-0.74	-0.77	-0.78	-0.79
IP A4	-0.74	-0.75	-0.75	-0.77
IP B1	-0.01	0.00	0.00	0.01
IP B2	-0.50	-0.57	-0.57	-0.58
IP B3	-0.43	-0.42	-0.42	-0.42
IP B4	-0.90	-0.90	-0.91	-0.91
IP B5	-1.32	-1.32	-1.33	-1.35
IP B6	-2.18	-2.22	-2.22	-2.22
IP B7	-4.27	-4.29	-4.38	-4.52
IP C1	0.03	0.03	0.04	0.04
IP C2	-0.29	-0.29	-0.29	-0.31
IP C3	-0.33	-0.33	-0.33	-0.35
IP C4	-0.71	-0.72	-0.73	-0.73
IP C5	-1.34	-1.37	-1.37	-1.39
IP C6	-1.93	-1.97	-1.97	-1.99
IP C7	-1.79	-1.86	-1.89	-1.95
IP D1	-0.04	-0.04	-0.04	-0.04
IP D2	-0.42	-0.43	-0.43	-0.45
IP D3	-0.34	-0.35	-0.36	-0.36
IP D4	-0.88	-0.89	-0.91	-0.93
IP D5	-1.12	-1.14	-1.16	-1.18
IP D6	-1.75	-1.79	-1.80	-1.86
IP D7	-1.72	-1.79	-1.81	-1.86
IP E1	0.03	0.04	0.04	0.04
IP E2	-0.77	-0.78	-0.79	-0.79
IP E3	-0.44	-0.46	-0.46	-0.46
IP E4	-0.76	-0.78	-0.80	-0.81
IP E5	-1.16	-1.17	-1.19	-1.20
IP F1 *	0.01	-0.01	-0.01	-0.01
IP F2	-0.74	-0.76	-0.77	-0.77
IP F3	-0.75	-0.81	-0.80	-0.81
IP F4	-0.97	-1.04	-1.04	-1.05
IP Q1	-0.45	-0.46	-0.46	-0.47
IP Q2	-0.74	-0.76	-0.77	-0.80
MP 1	-0.02	-0.02	-0.02	-0.02
MP 2	0.00	-0.01	-0.01	-0.01
MP 3	0.00	0.00	0.01	0.01
MP 4	0.06	0.06	0.06	0.06
MP 5	0.05	0.05	0.05	0.05
MP 6	-0.03	-0.04	-0.04	-0.04
MP 7	-0.07	-0.08	-0.08	-0.08
MP 8				
MP 9	-0.09	-0.09		

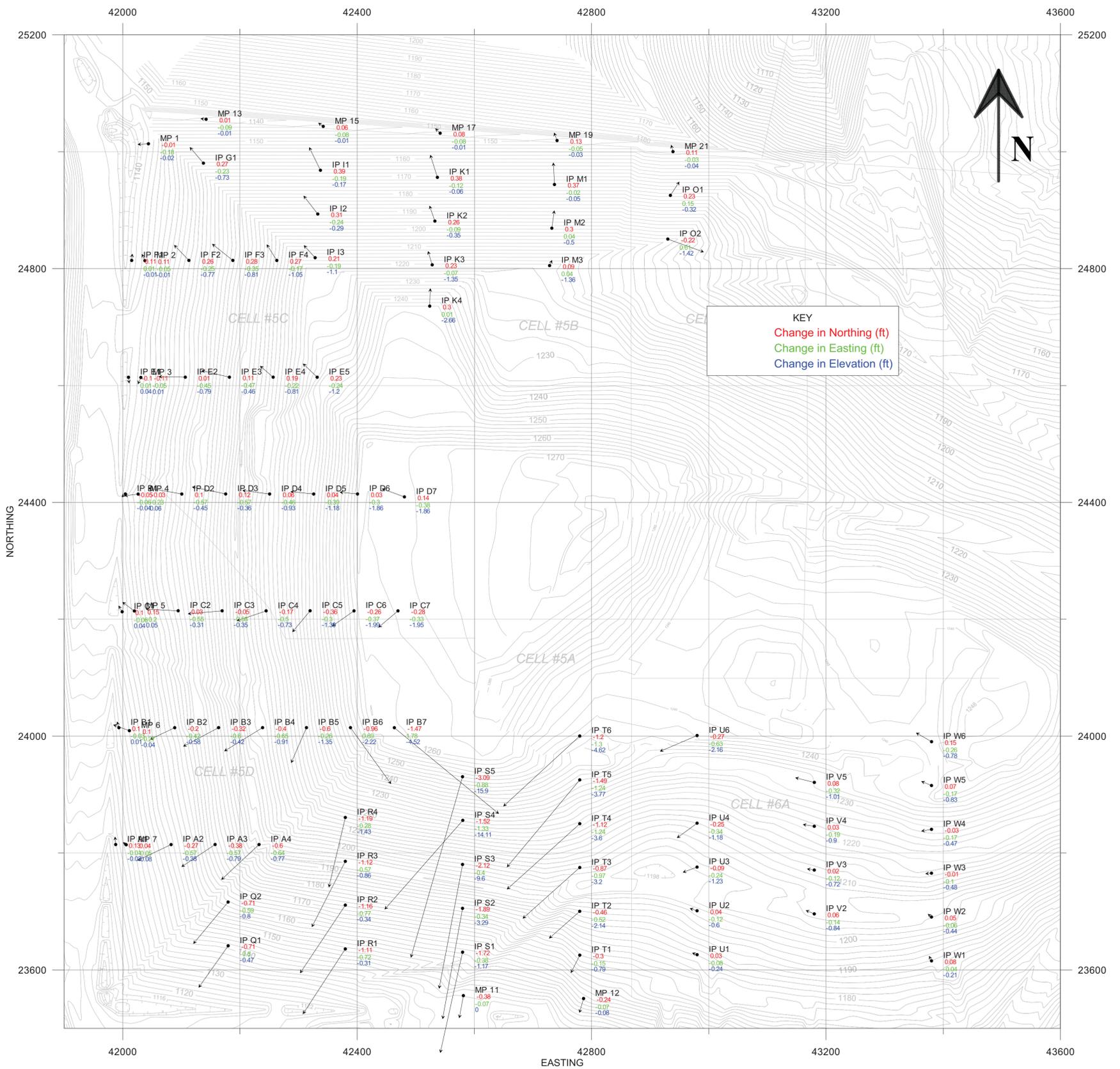
* On May 10, 2010, Ohio EPA approved an increase the baseline elevation of Iron Pin F1 from the original elevation of 1141.06', established on October 6, 2009, to 1141.15' due to the effects of frost heave.

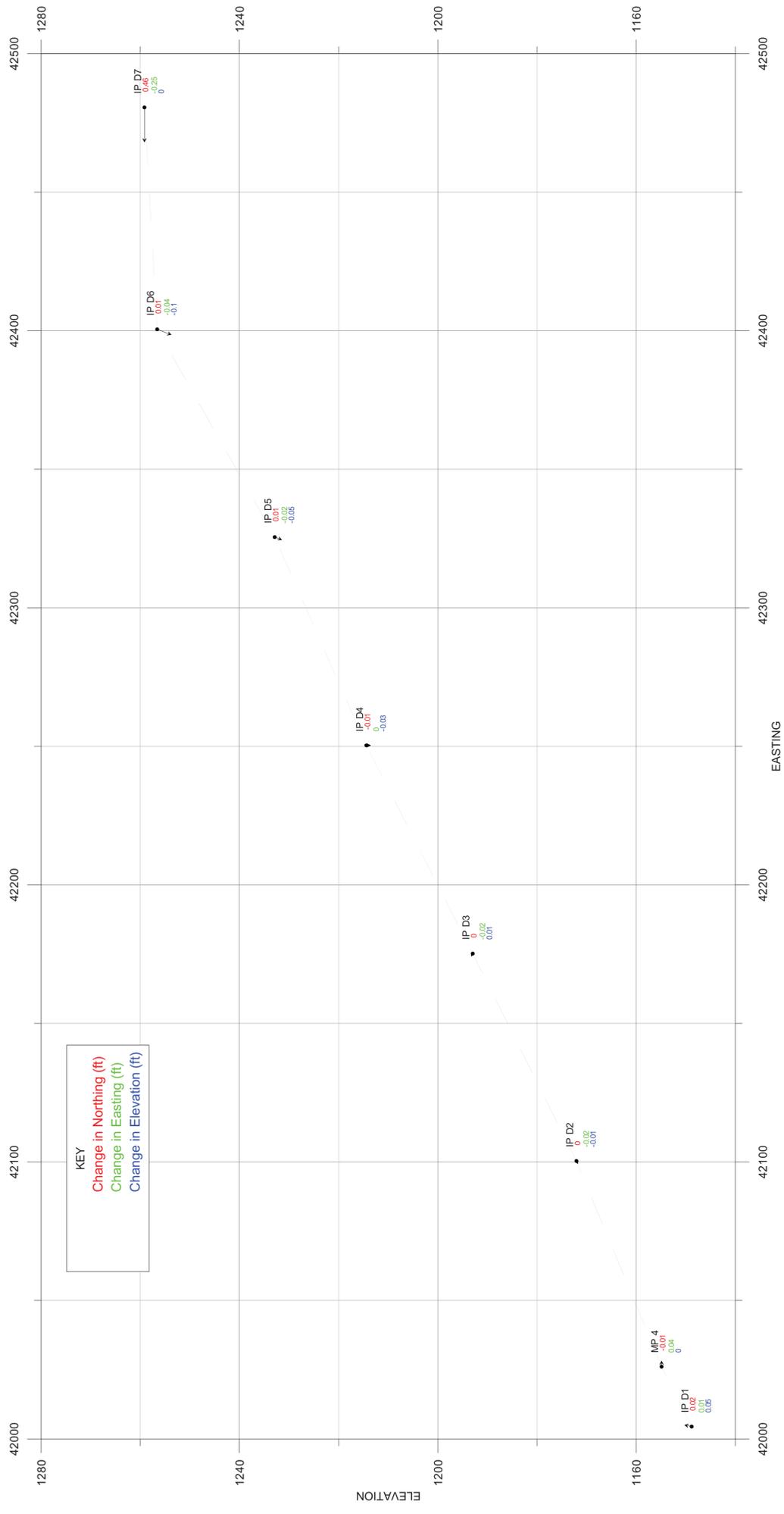
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 6, 2009.
3. Highlighted regions indicate points which there was a positive change greater than 0.05 ft in elevation since October 6, 2009.



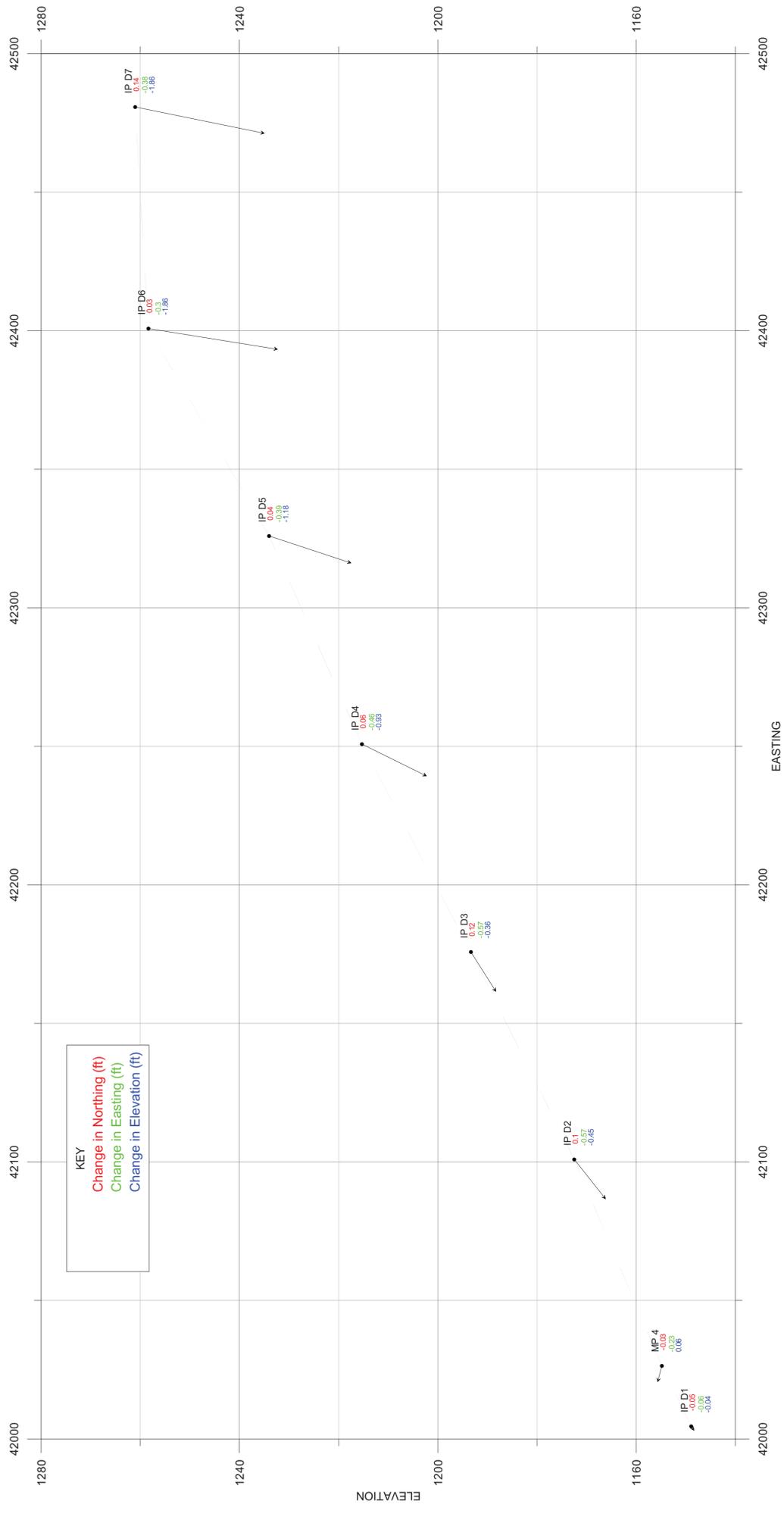
NOTE:

1. TOPOGRAPHY PROVIDED BY DIVERSIFIED ENGINEERING INC AS PART OF THE "88 REMEDIATION UNIT SLOPE PINS AND MONITORING PLATES LOCATION" PROJECT, DRAWING DATED 7/21/2009.
2. HORIZONTAL MOVEMENT VECTORS ARE PLOTTED TO A 1 INCH = 0.5 FEET SCALE. 
3. HORIZONTAL MOVEMENT TRIGGER WAS NOT EXCEEDED DURING REPORTING PERIOD.
4. VERTICAL MOVEMENT TRIGGER WAS EXCEEDED AT MP4 DURING THE REPORTING PERIOD.





PROFILE MOVEMENT FOR ROW 'D'
BETWEEN 09/28/10 & 10/26/10



- NOTES:
1. PROFILE IS APPROXIMATED USING POINTS SHOWN AS PROVIDED BY DIVERSIFIED ENGINEERING INC.
 2. HORIZONTAL MOVEMENT VECTORS ARE PLOTTED TO A 1 INCH = 1 FOOT SCALE. 1 FOOT

PROFILE MOVEMENT FOR ROW 'D'
BETWEEN 10/06/09 & 10/26/10