



Countywide Recycling & Disposal Facility, Remediation Unit

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

NOVEMBER 2009

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Introduction

This document provides a monthly report of monitoring and other activities conducted in November 2009. These activities are required by the Operations, Monitoring, and Maintenance (OM&M) Plan, 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, etc., which are activities that are not presented in this submission. These activities are documented as required, and records are retained in the OM&M Managers office.

1. Monthly Summary Narrative

On September 30, 2009, the OM&M Plan, the Consent Order, and the Director's final Findings and Orders were filed, implementing the bifurcation and the OM&M Plan. These documents also initiated the timeline for submittals and actions, including;

- The Permit to Install Modification reflecting the bifurcation (to be submitted December 2009),
- Issuance of financial assurance (submitted October 2009),
- Installation of an additional groundwater well (completed November 2009),
- Submission of the Leachate Migration Assessment Plan (submitted October 2009),
- Evaluation of the south slope for relocation (submitted November 2009), and
- Settlement payments (submitted October 2009).

The following summary details activities conducted during the month of October which are required on a quarterly, semi-annual, or annual basis. The quarterly aerial infrared survey was conducted in November, as well as the flare preventative maintenance program which completed the annual and semi-annual flare maintenance requirements of the OM&M plan. Additionally, the quarterly sampling of flare and header branches for dioxins and furans and quarterly deadhead pressure monitoring occurred in November. Jetting of the undercap collector system, leachate transfer lines, and leachate collection system occurred to meet the quarterly, semi-annual, and annual requirements for these activities. The new 500,000-gallon tanks servicing the Remediation Unit

was put into service, and the 500,000-gallon tank servicing the Operational Unit and the 30,000-gallon tank servicing the south side of the Remediation Unit were cleaned and inspected.

The Incident Management System Plan (IMSP) was updated in November, per Volume 1, Section 9.1. The updated plan was provided to local fire departments and local emergency planning entities, who were also invited for a tour of the facility. A refresher training for the IMSP was also conducted in November.

2. New Construction

No new construction is currently planned. The leachate expansion project is ongoing and all new components are expected to be active in December. During the month of November, as part of this project, Cells 5AB and 5CD risers were extended, and the gravity tank at the southwest corner was removed. All leachate tie-ins to the new system were completed on the south 88 in November, and the temporary tanks were cleaned and removed from the facility.

3. Major Non-Routine Maintenance, Repairs or Events

No major non-routine maintenance, repairs, or event to report during the month of November 2009. Routine maintenance and repairs of the temporary cap, leachate, and gas systems were completed as necessary.

4. New Trigger Events

During the November operating period, an area with elevated surface temperatures was observed during a routine temporary cap inspection. The approximate 100 square foot area was located west of RW-1 near the west end of the deep trench. Further investigation identified the area as having temperatures in excess of 150°F on the surface of the cap, and diffusion of odors through the capped surface was noted. On December 4, 2009, the area was overlain by two layers of bentomat, and then overcapped with FML. This procedure has been proven in the past to provide sufficient insulation to inhibit heat stress on the top layer of temporary cap. Following the corrective action listed above, surface temperatures were observed to be well below 150°F.

After review of the November 2009 data, it should be noted that between the October and November sampling events, the data reflects a greater than 25% increase carbon monoxide levels at both Flares 7 and 10, as well as the north header sampling branches designated as HBN01 and HBN02. There was a decrease reflected in carbon monoxide observed at the south header branch samples designated as HBS01 and HBS02. This data is presented below:

Carbon Monoxide Levels (ppm)		
Sample Location	October	November
F-10 BIN	82.5	252.8
F-7 BIN	66.5	237.1
HBN01	250.1	587.2
HBN02	61.01	247.3
HBS01	179.2	123.3
HBS02	412.3	353.7

After a review of the data and the activities conducted in October and November, Republic believes that the increase is directly related to major changes in the gas collection system that occurred between these two months. Following the October sampling event, the final tie-in of the gas system expansion was conducted. This involved the completion of the "loop" on the south side of cell 3, and the installation of a condensate removal sump in that area. This work resulted in major changes in the flow and vacuum dynamics, including reversal of flow on the eastern half of the facility, enhanced removal of liquids from the header system, and elimination of a damaged header system. Additionally, this resulted in the connection of the eastern 88 acres with western 88 acres, resulting in an increase in "88 gas" to the Flare 10 via the northeast header branch. In short, Republic believes that the increase is related to an improvement in gas collection efficiency between the two events rather than an actual increase of CO in the gas. Based upon this assessment, Republic believes that more data is needed to evaluate the relevance of this apparent increase. There have been no dramatic changes to the well field that could affect flow dynamics between the November and December events, which should result in more consistent results. Republic does not believe that additional assessment is necessary at this time.

No other trigger values have been reflected for the month of November 2009.

5. Investigation Results from Previous Trigger Events

As October was the first month of the OM&M Plan implementation, there were no previous trigger events to investigate.

6. Trend Graphs and Drawings

The graphs, tables, and figures 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 Team Countywide Meeting will be the vehicle utilized to discuss this data in depth.

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, atypical or uncontrollable leachate outbreaks, and specific gas quality and temperature criteria. 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

There have been several discrepancies identified in the OM&M Plan, either frequencies that conflict between different parts of the plan or clarifications that were necessary. In each of these cases, the

OM&M manager clarified the discrepancies with representatives of the OEPA, and these clarifications have been documented. The OM&M Plan is in the process of being revised to reflect these clarifications.

10. Odor Summary/Complaints

During the month of November, there were two odor complaints reported to Countywide. Neither of these complaints could be investigated immediately (within 15 minutes) due to the time of day reported.



December 14, 2009

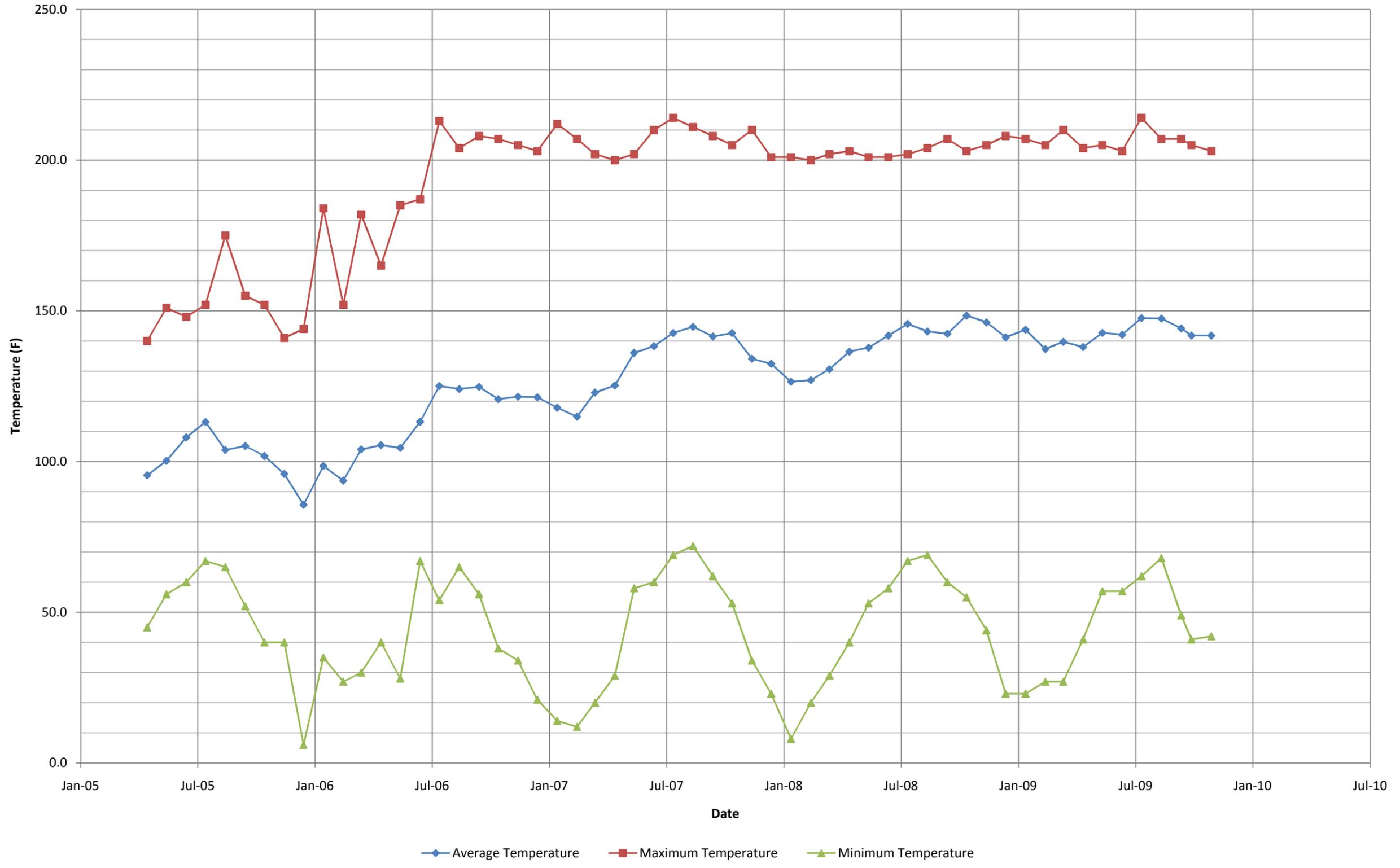
Michael Darnell
OM&M Manager

Date

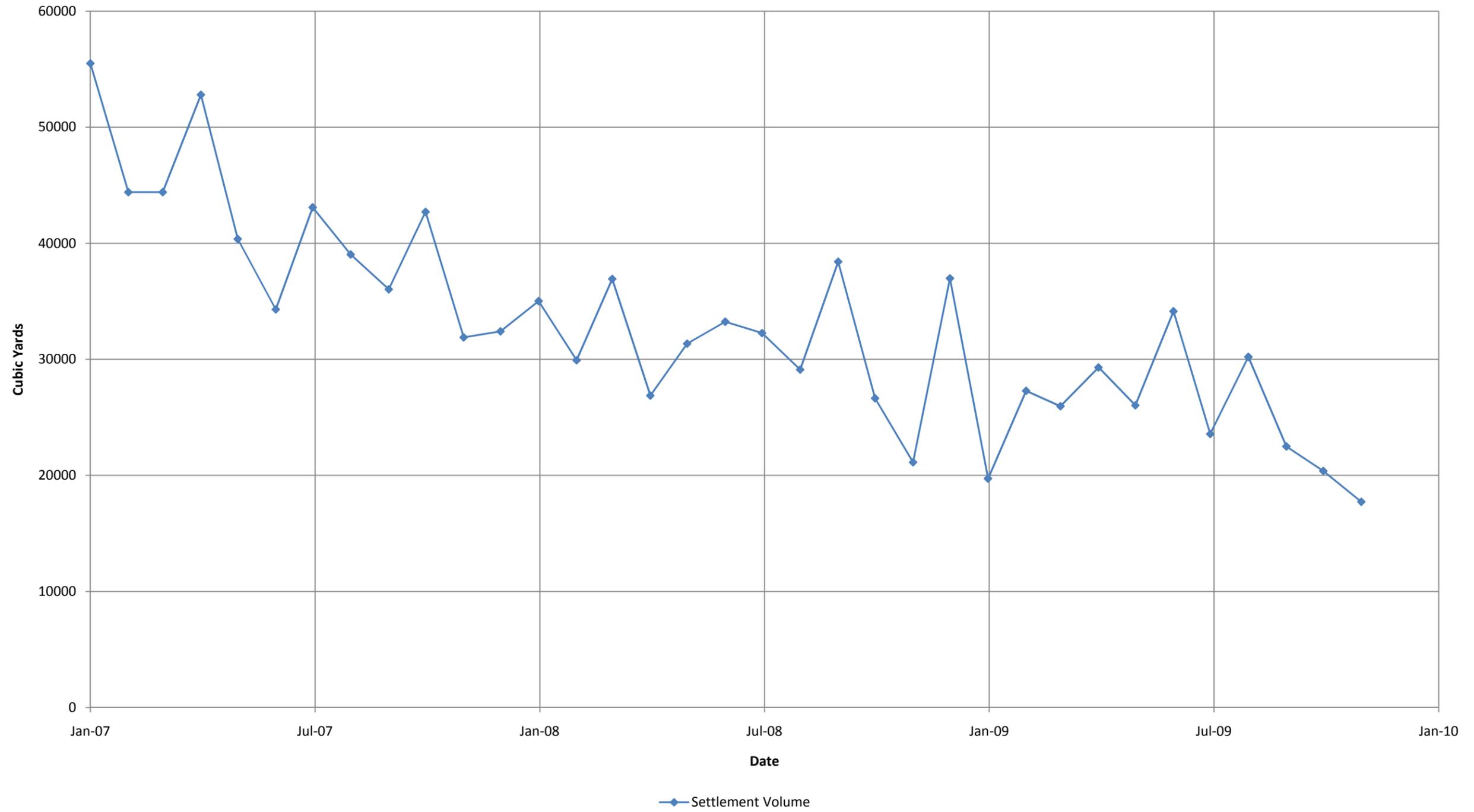
Attachment 1

Graphs

Graph 1 Wellhead Temperature

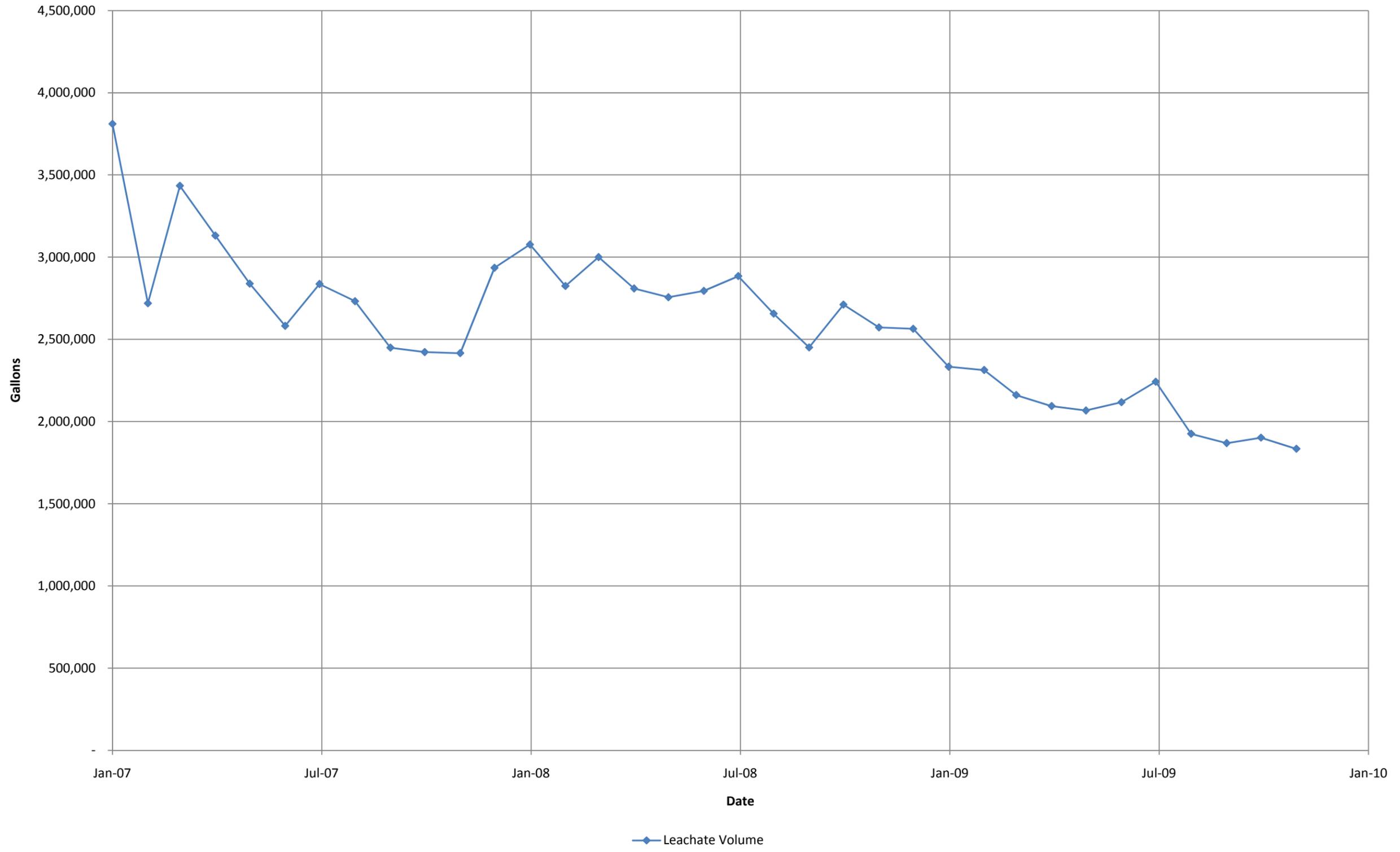


Graph 2 Settlement Volume

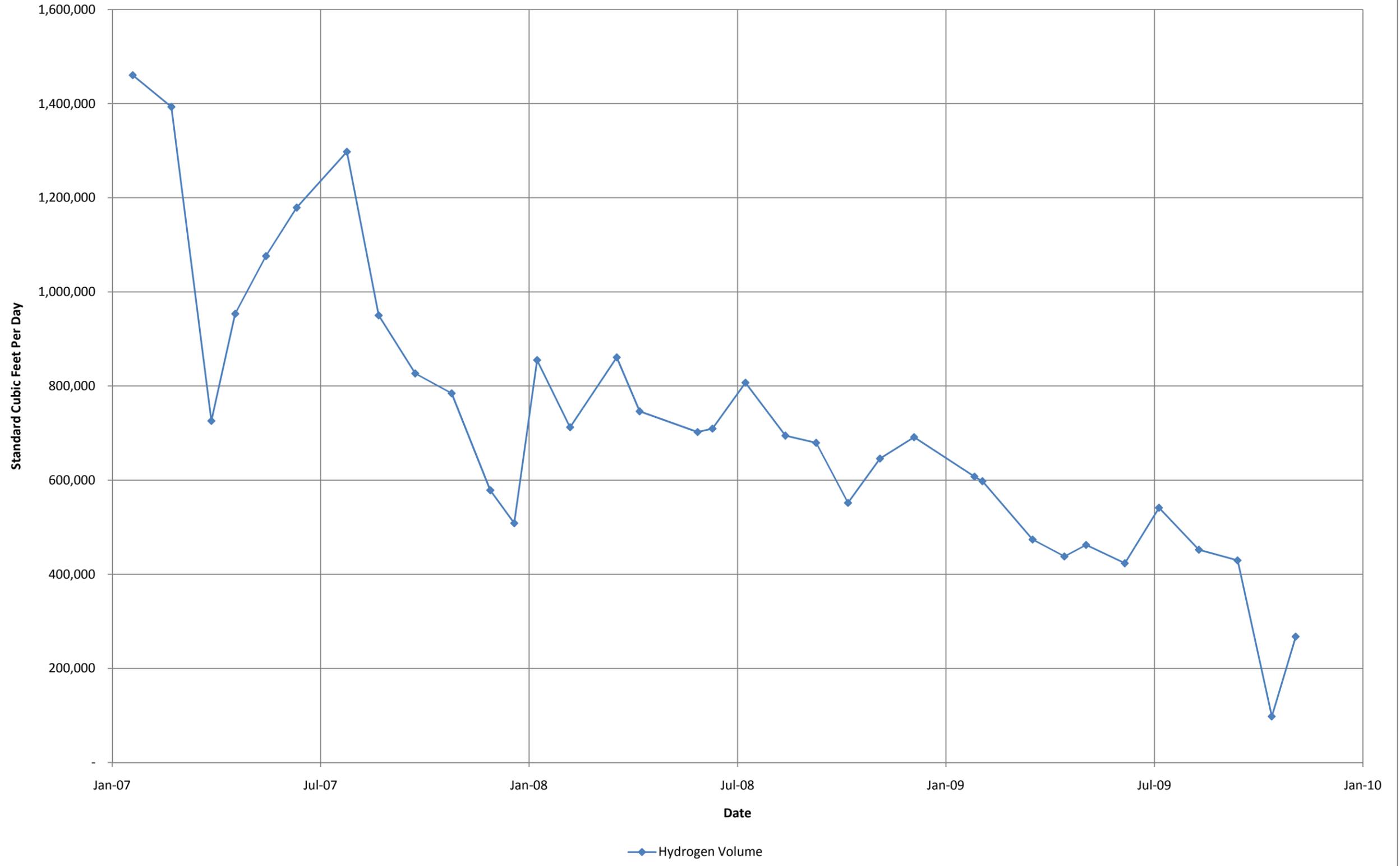


1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
2. Data presented on monthly basis.
3. Settlement volume reported prior to the 4th quarter of 2009 is for a limited area of the 88-acre reaction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

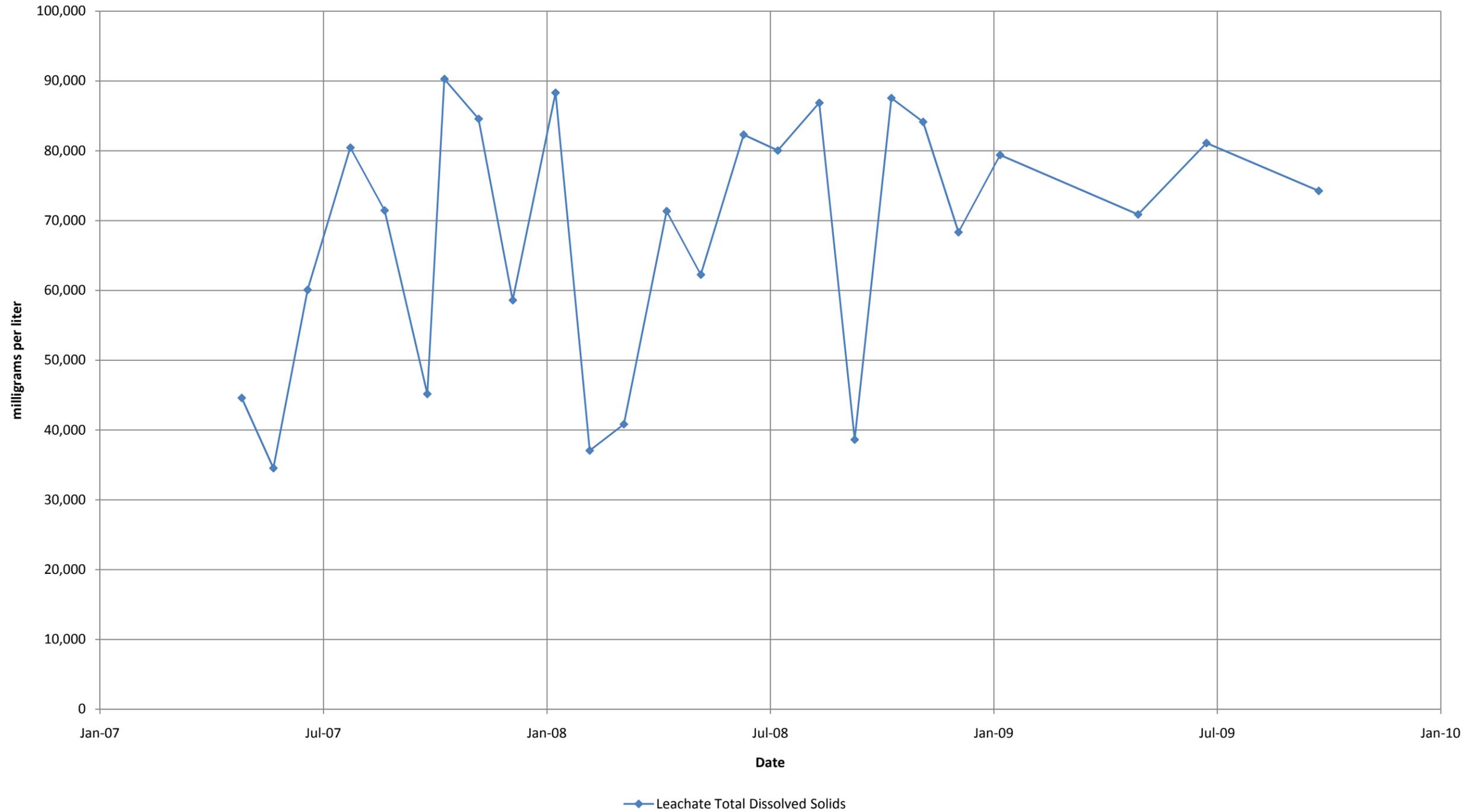
Graph 3 Leachate Volume



Graph 4 Hydrogen Volume

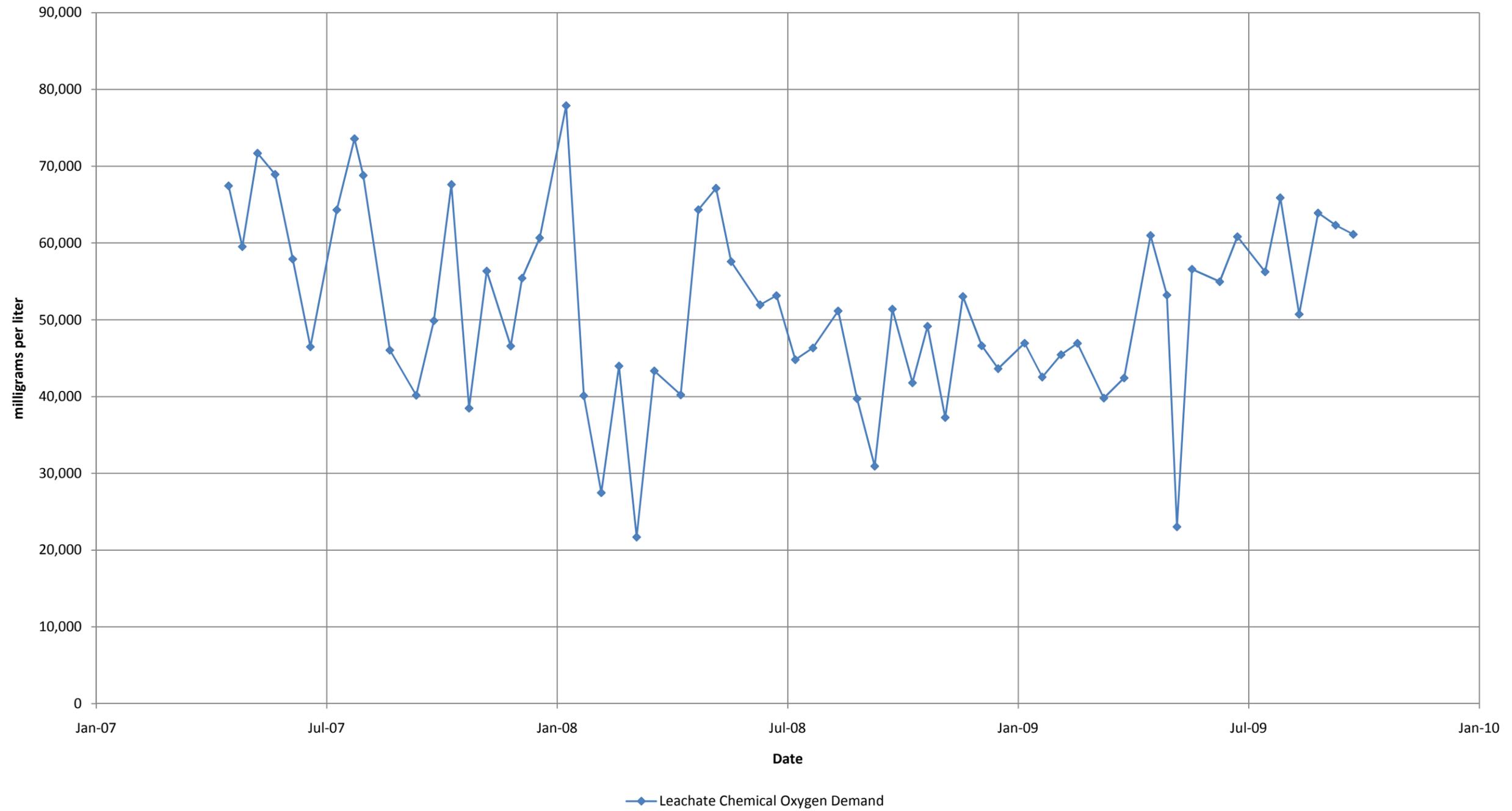


Graph 5 Leachate Total Dissolved Solids



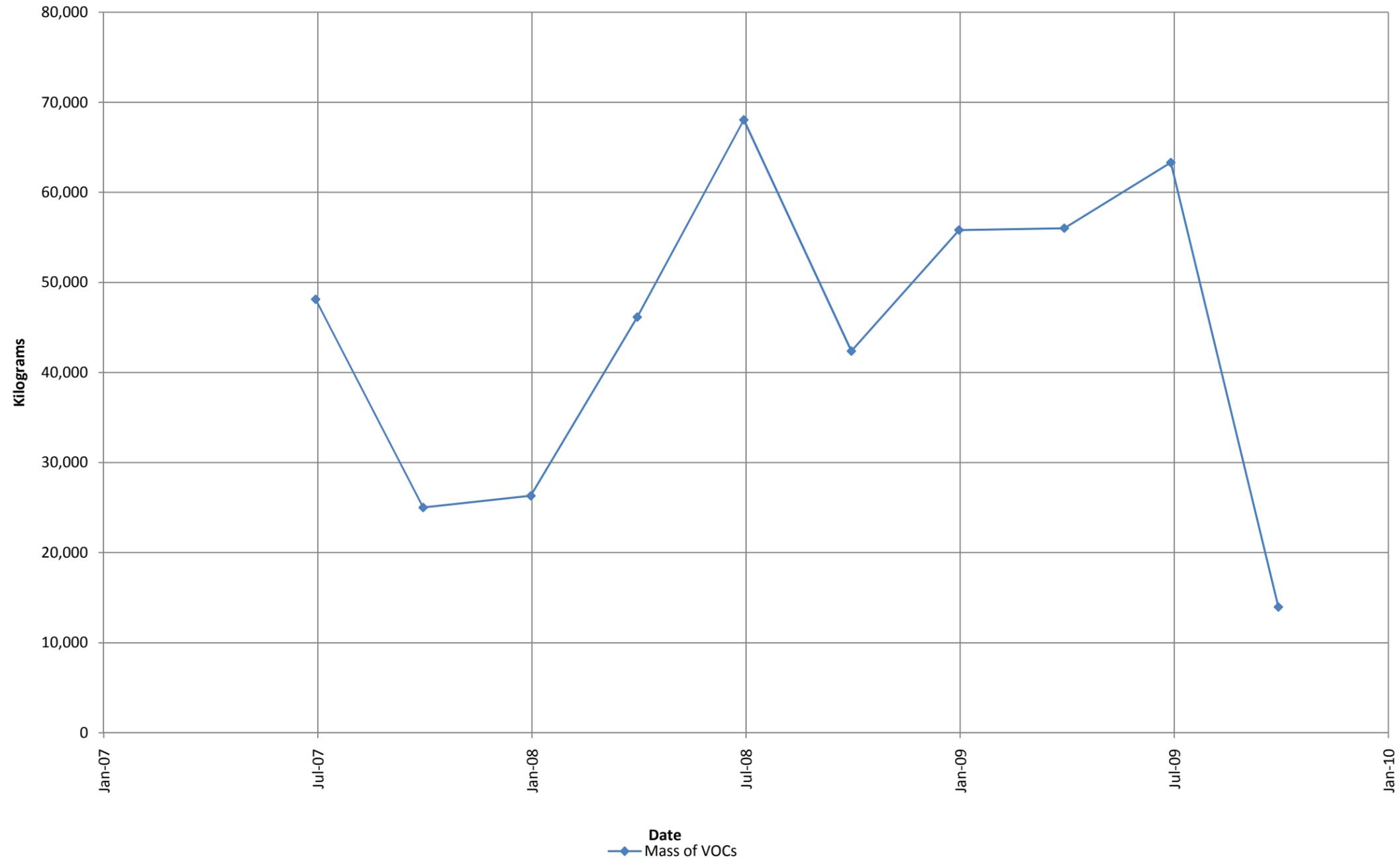
1. Information presented prior to October 2009 was compiled from data prepared and presented by AECOM for Countywide Recycling and Disposal Facility.
2. Data shown prior to October 2009 are flow-weighted averages of data from the East, North and South leachate collection tanks.
3. Data shown prior to October 2009 comprises data from the leachate collection system only, and excludes certain leachate toe drains, sumps and gas collection wells.
4. No Data Collected in November 2009.

Graph 6 Leachate Chemical Oxygen Demand



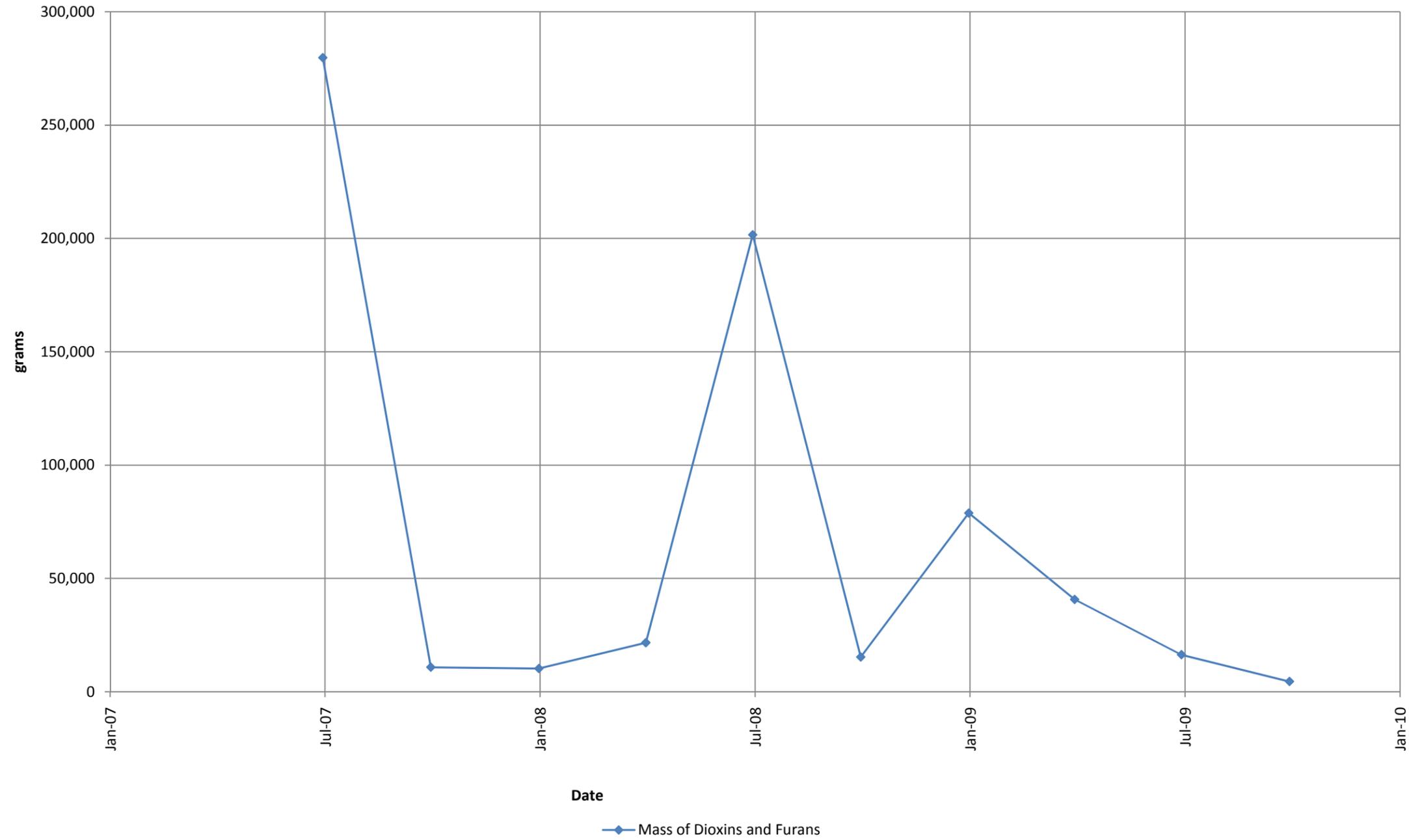
1. Information presented prior to October 2009 was compiled from data prepared and presented by AECOM for Countywide Recycling and Disposal Facility.
2. Data shown prior to October 2009 are flow-weighted averages of data from the East, North and South leachate collection tanks.
3. Data shown prior to October 2009 comprises data from the leachate collection system only, and excludes certain leachate toe drains, sumps and gas collection wells.
4. No Data Collected in November 2009.

Graph 7 Total Mass of VOCs



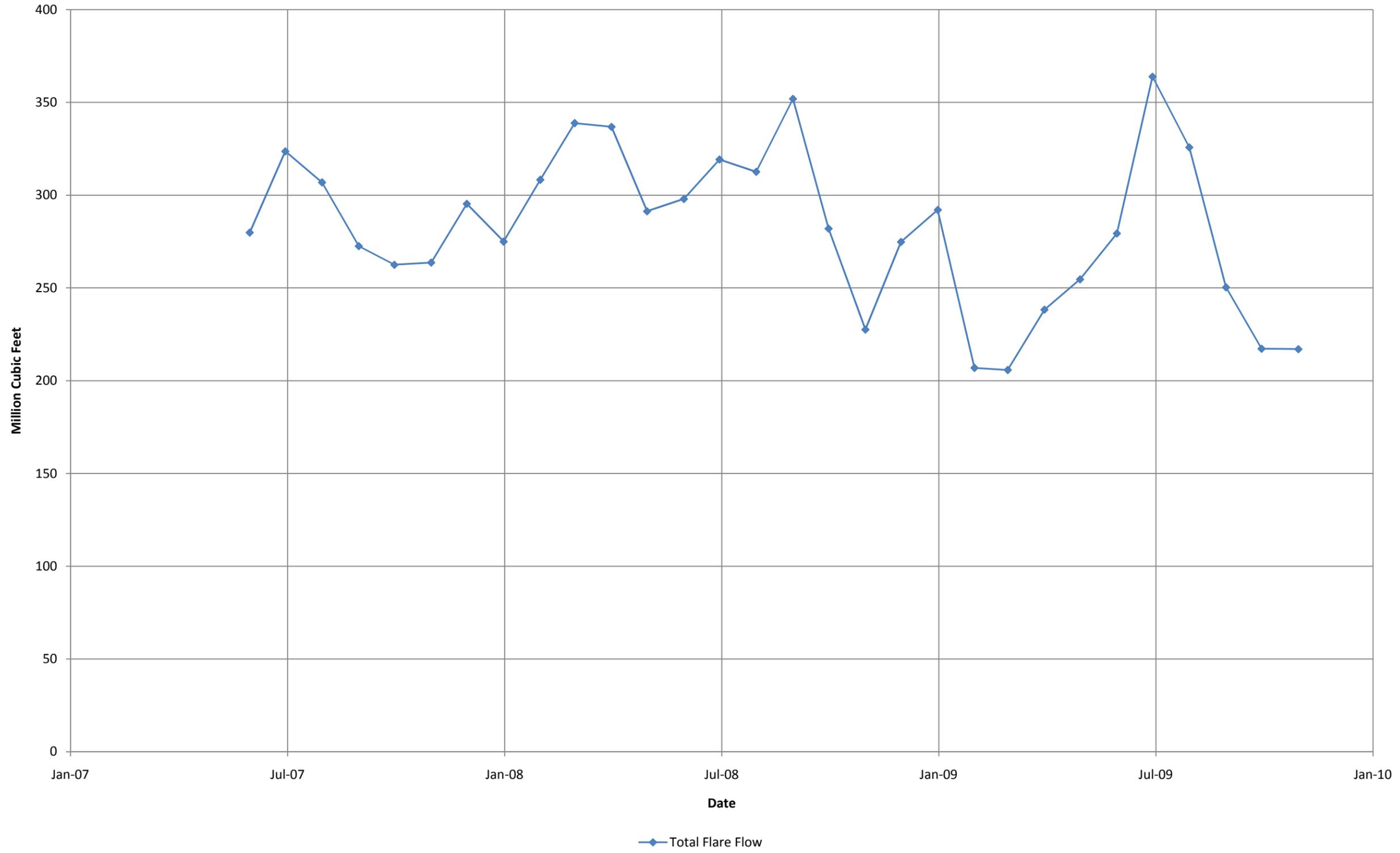
1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
2. Data presentation frequency is quarterly.
3. Flare 4 was not sampled for air quality beginning in September 2009.
4. Beginning in fourth quarter 2009, mass based on data collected only from Flares 7 and 10.
5. Fourth quarter total mass based on flow through the end of November 2009. Fourth quarter total mass will be updated at the end of December 2009 to account for December flow data.

Graph 8 Total Mass of Dioxins and Furans

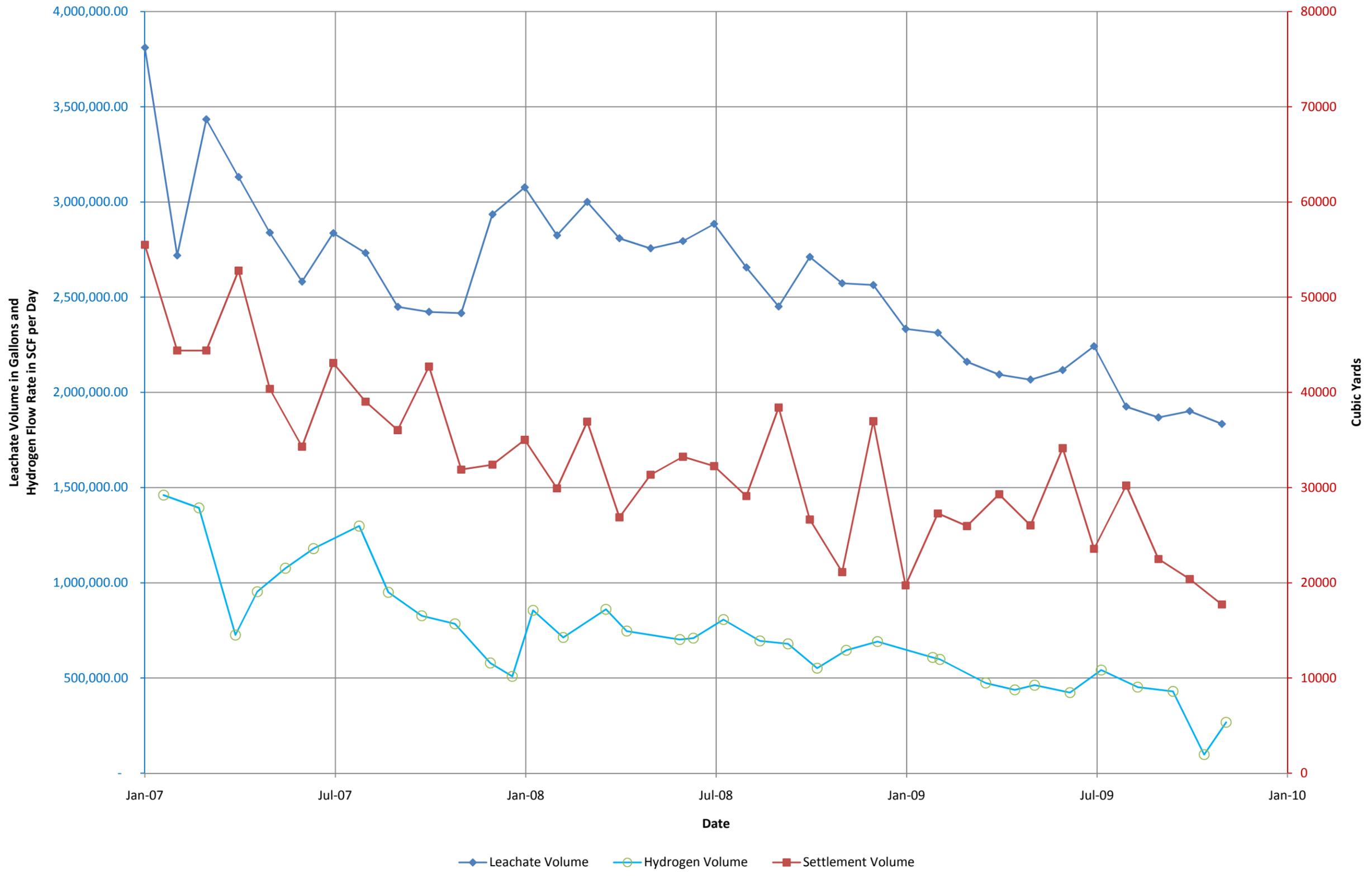


1. Information presented prior to October 2009 was compiled from data prepared and presented by SCS Engineers for Countywide Recycling and Disposal Facility.
2. Data presentation frequency is quarterly.
3. Flare 4 was not sampled for air quality beginning in September 2009.
4. Beginning in fourth quarter 2009, mass based on data collected only from Flares 7 and 10.
5. Fourth quarter total mass based on flow through the end of November 2009. Fourth quarter total mass will be updated at the end of December 2009 to account for December flow data.

Graph 9 Total Flare Flow



Graph 10 Combined Leachate, Hydrogen and Settlement Volume



P. J. Carey & Associates, P.C.

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December 10, 2009

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

RE: Evaluation of Pin Movements
Countywide Slopes
November 2009 period

Dear Mike,

I have reviewed the pin survey data from the South, West and North Slopes at Countywide. The surveys were performed during the month of October by Diversified Engineering, Inc. (DEI) using optical survey methods. The survey data has been plotted in accordance with Section 6.5.4 of the Operation, Maintenance and Monitoring Plan creating Figures 11 through 19. A review of the data shows:

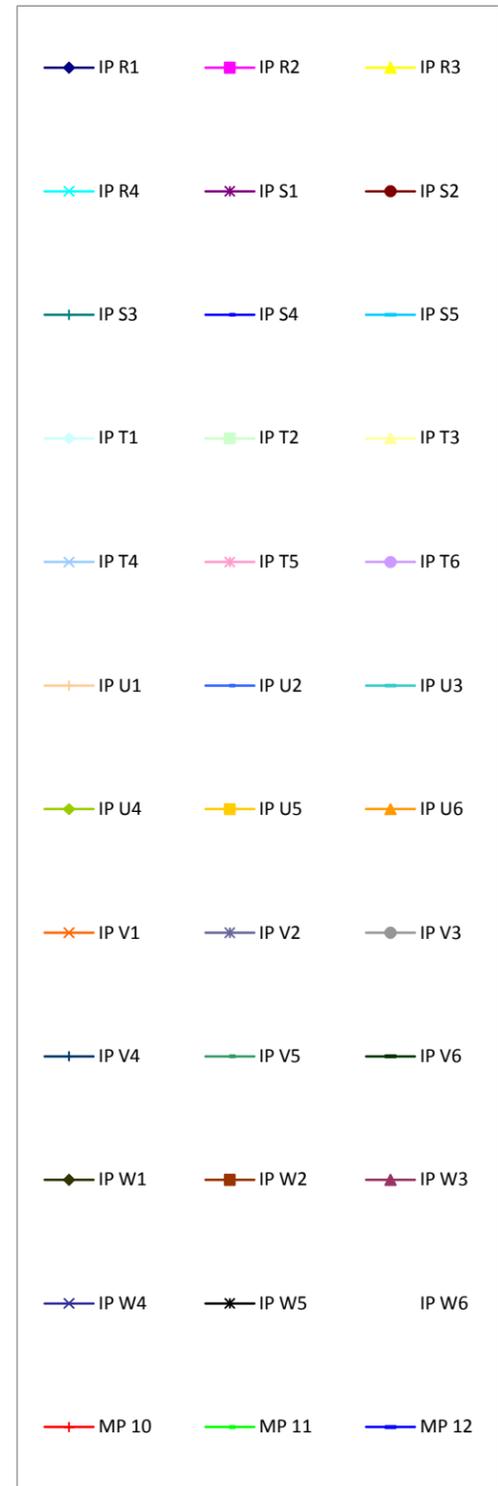
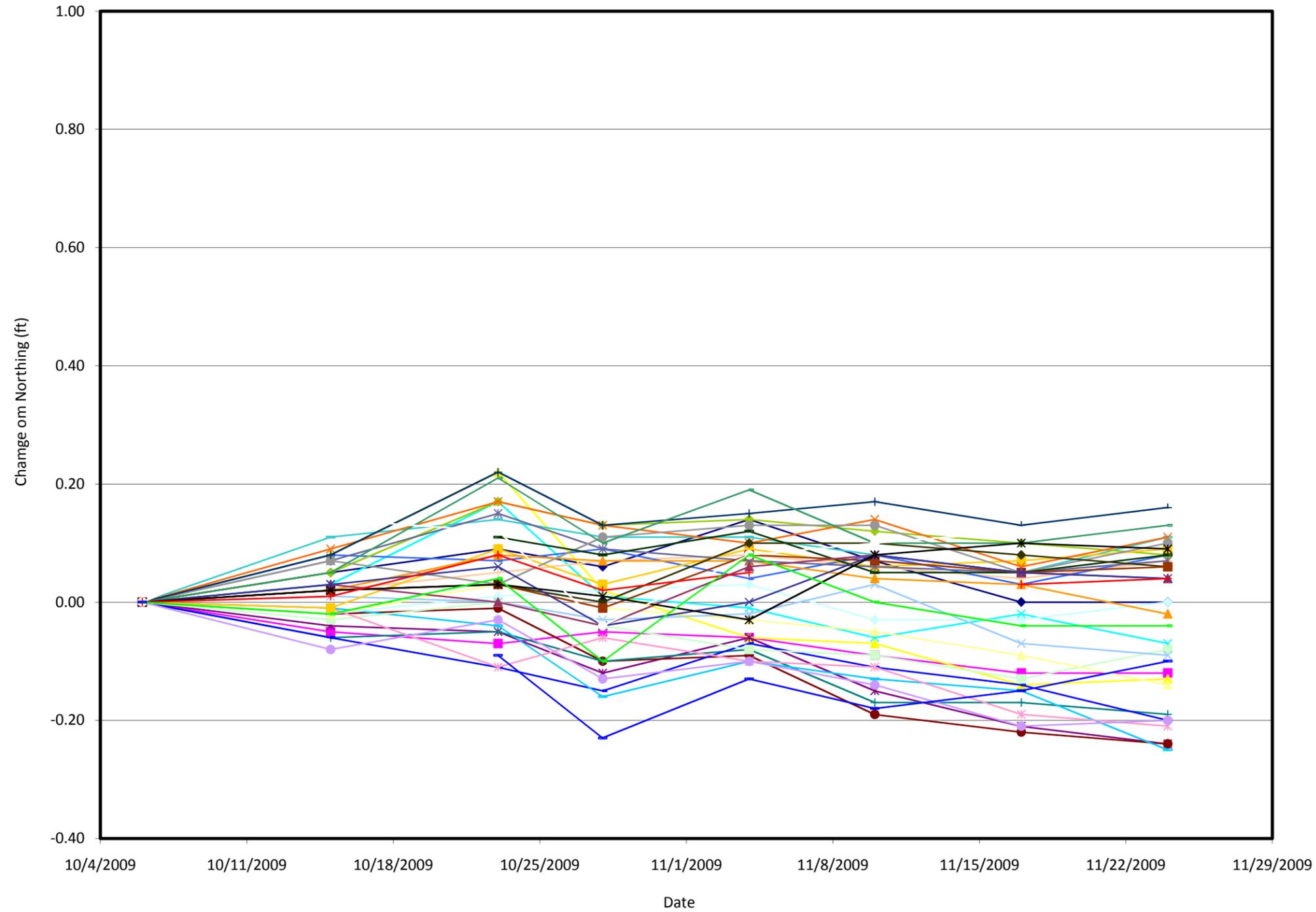
- No pins or toe monitoring points exceeded the trigger rates of 0.05ft per day of horizontal movement
- No signs of heave are present, although minor upward vertical movement was recorded at individual locations
- The minor vertical movements are all less than 0.02 ft and diminished with time, suggesting they represent limitations in survey rather than any trend.
- No signs of instability are indicated.

I hope this information is helpful to you. Please call if there are any questions

Sincerely,

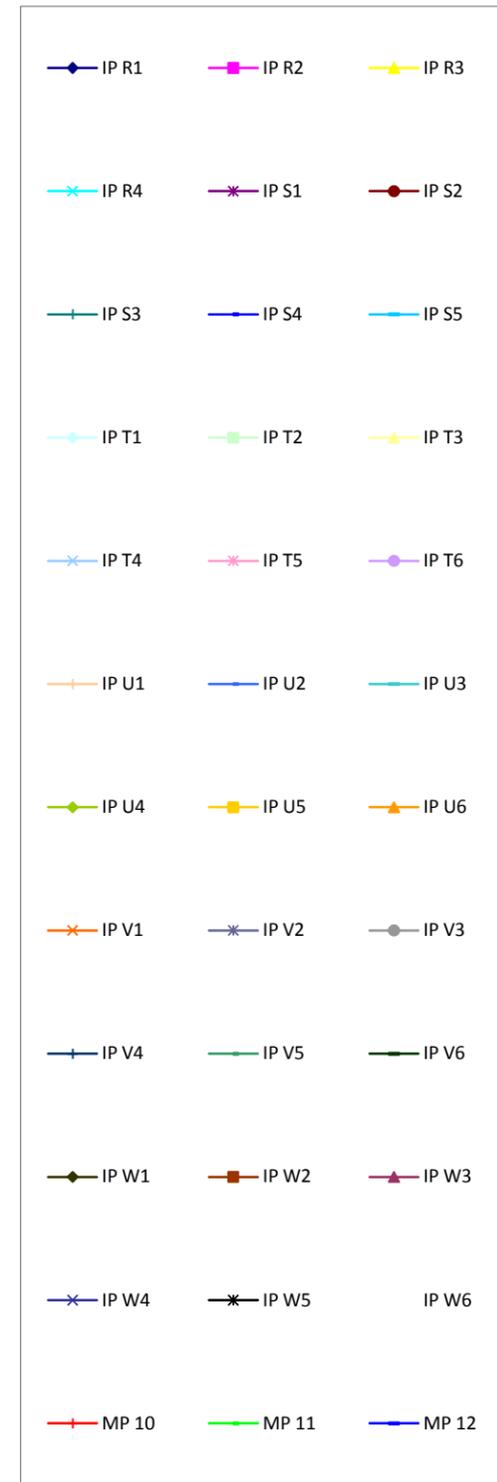
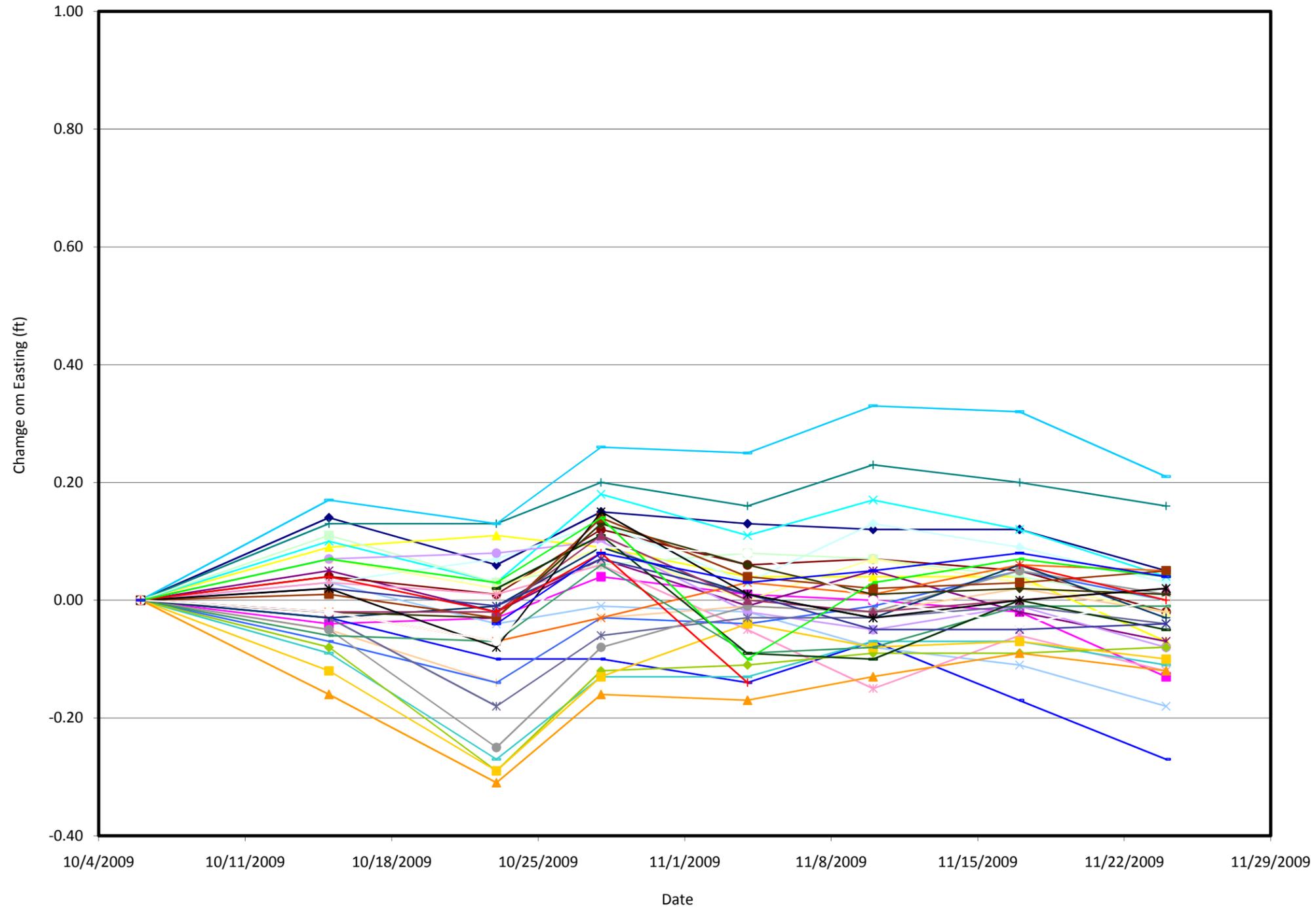
Peter J. Carey, PE
President

Graph 11 - South Slope Pin Movement
Northing Change



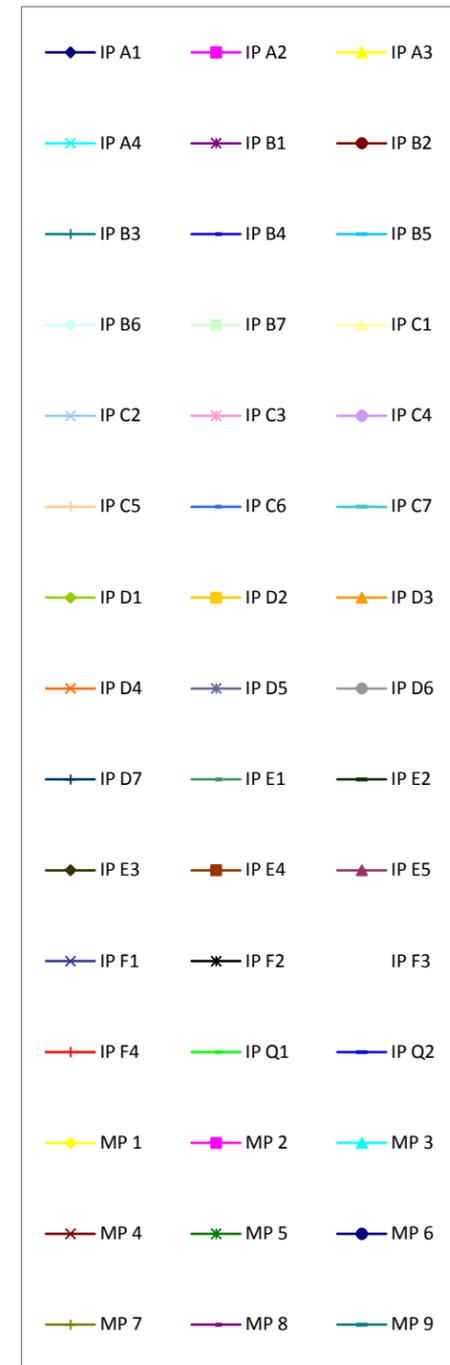
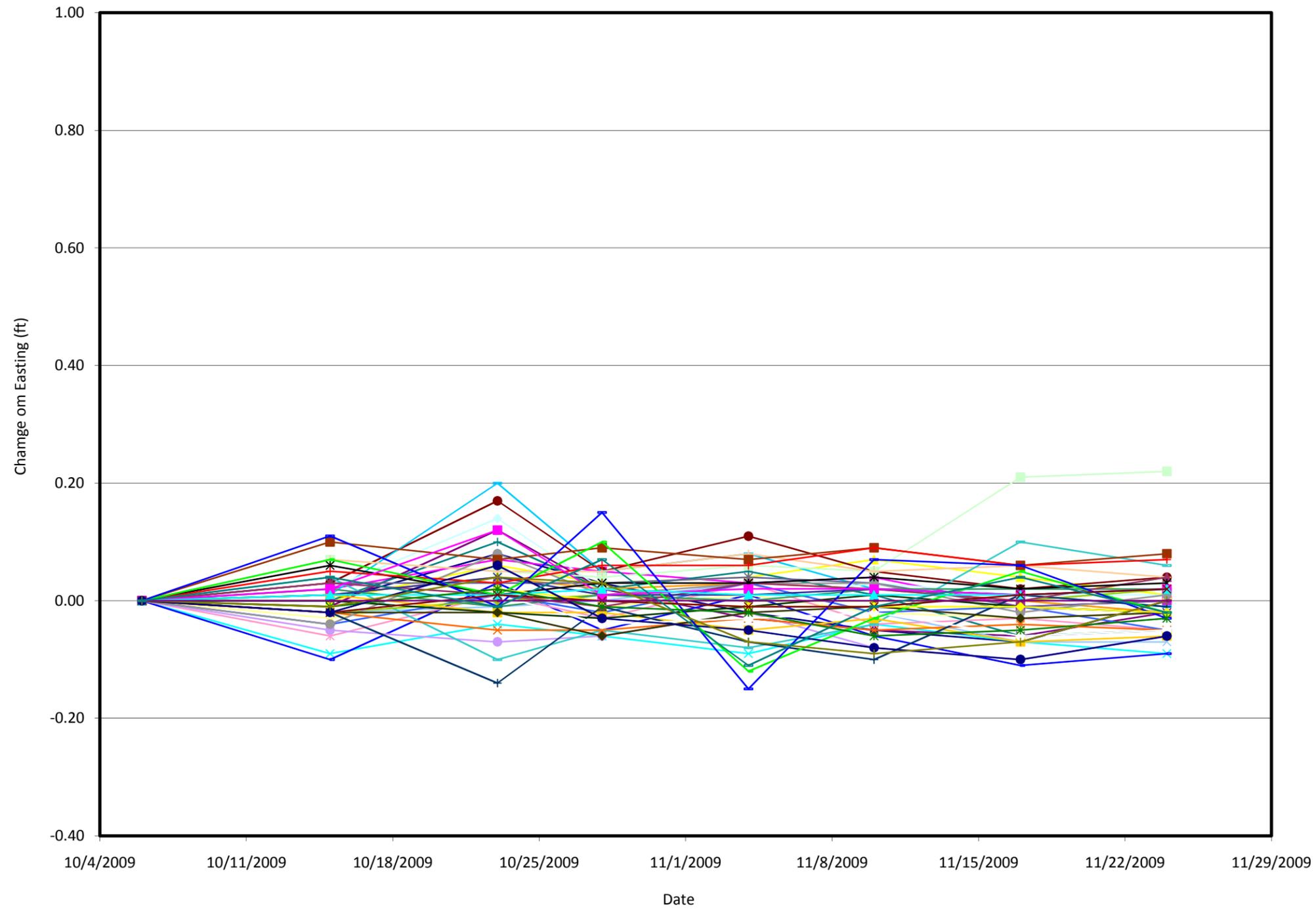
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 5, 2009.

Graph 12 - South Slope Pin Movement Easting Change



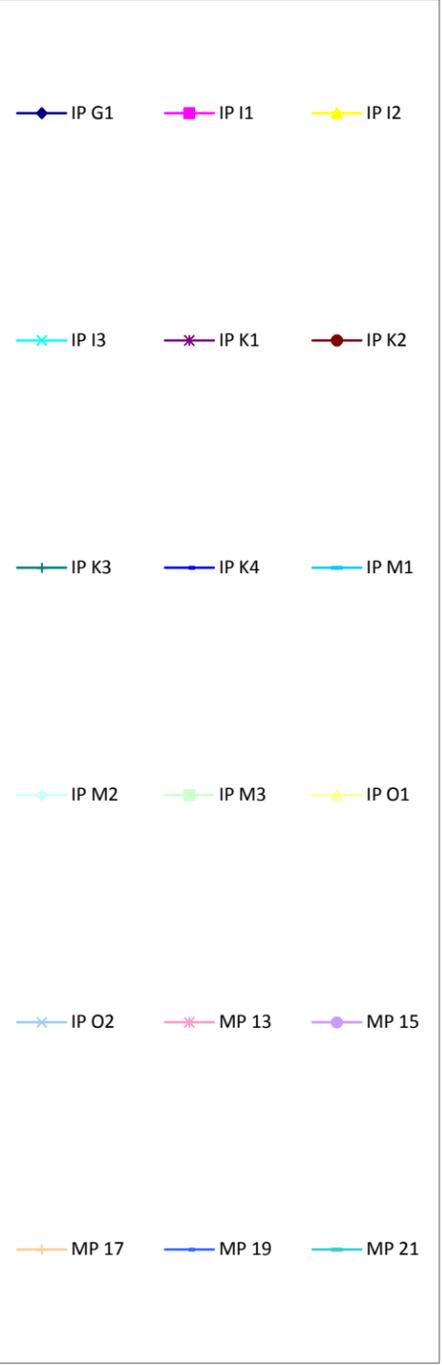
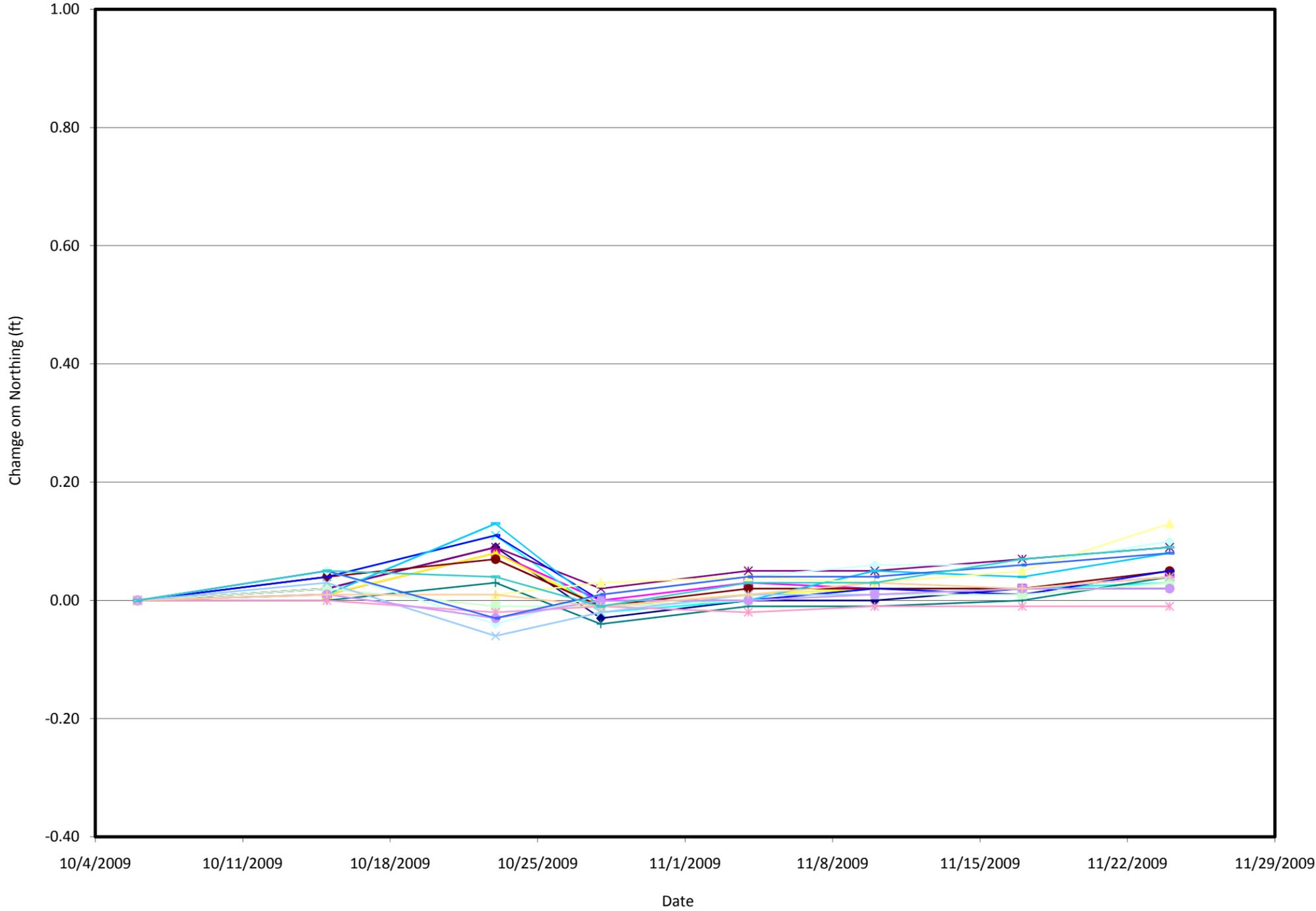
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 5, 2009.

Graph 15 - West Slope Pin Movement
Easting Change



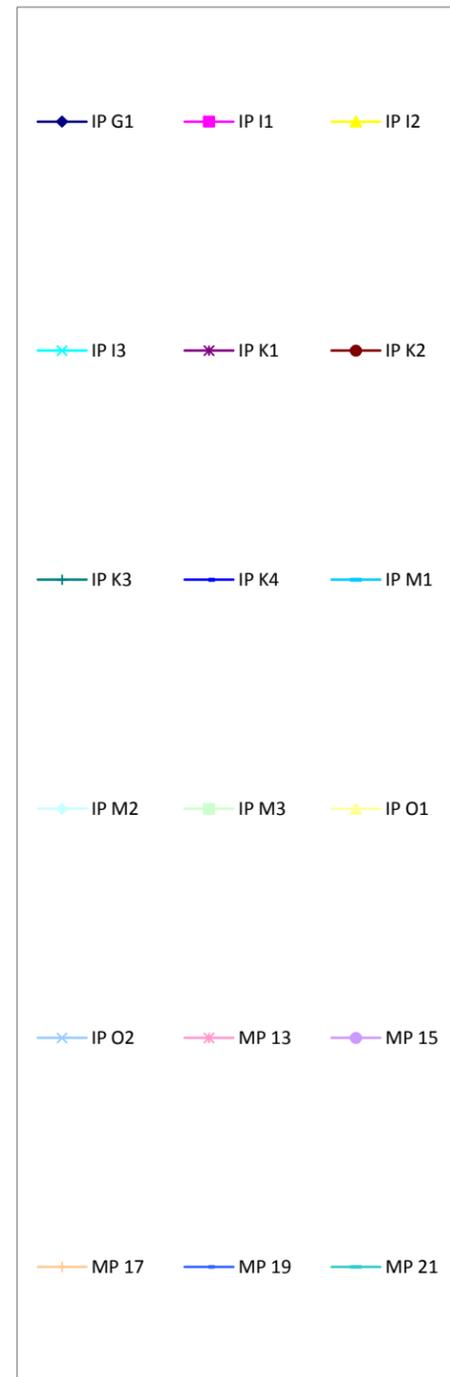
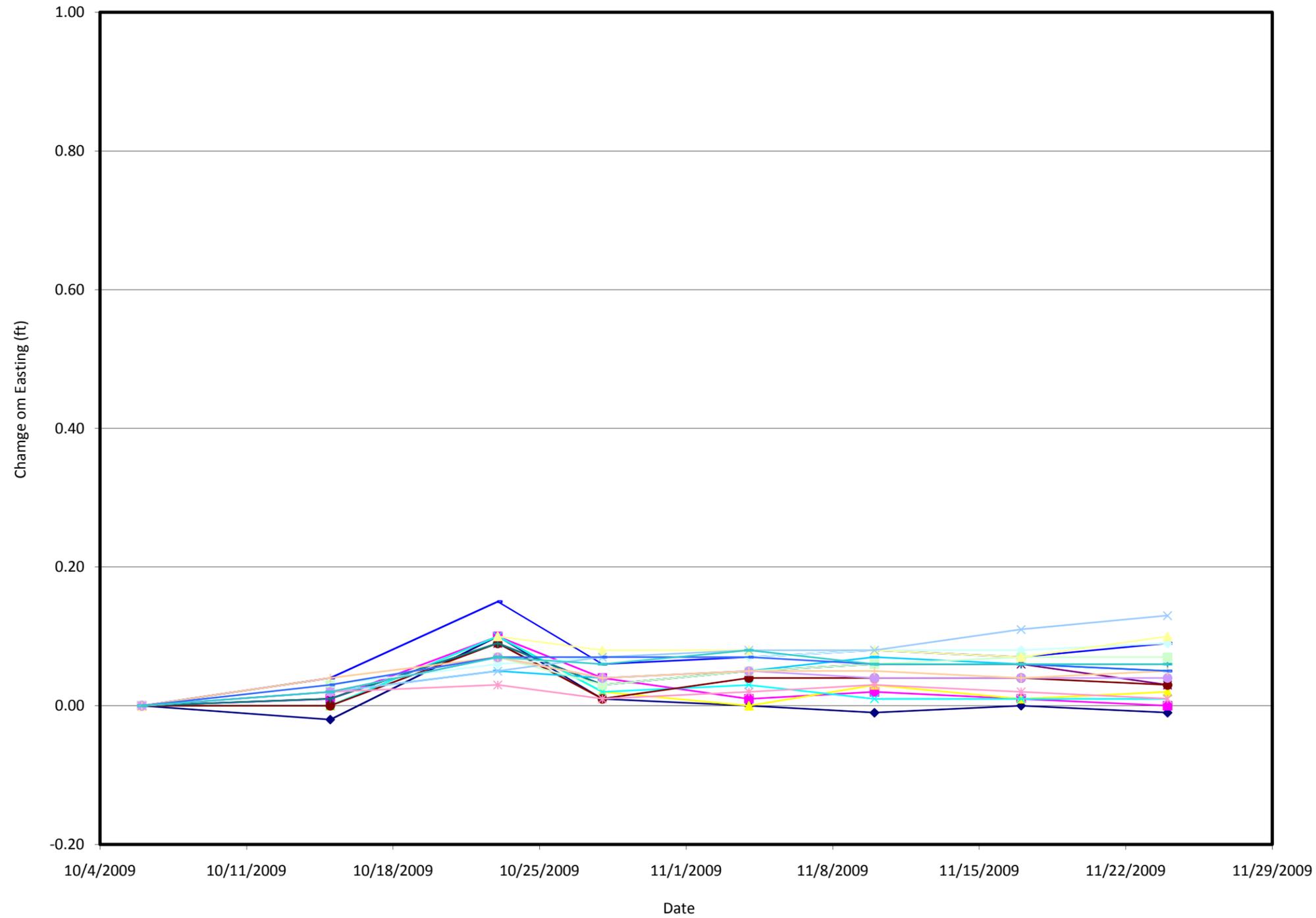
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 5, 2009.

Graph 17 - North Slope Pin Movement
Northing Change



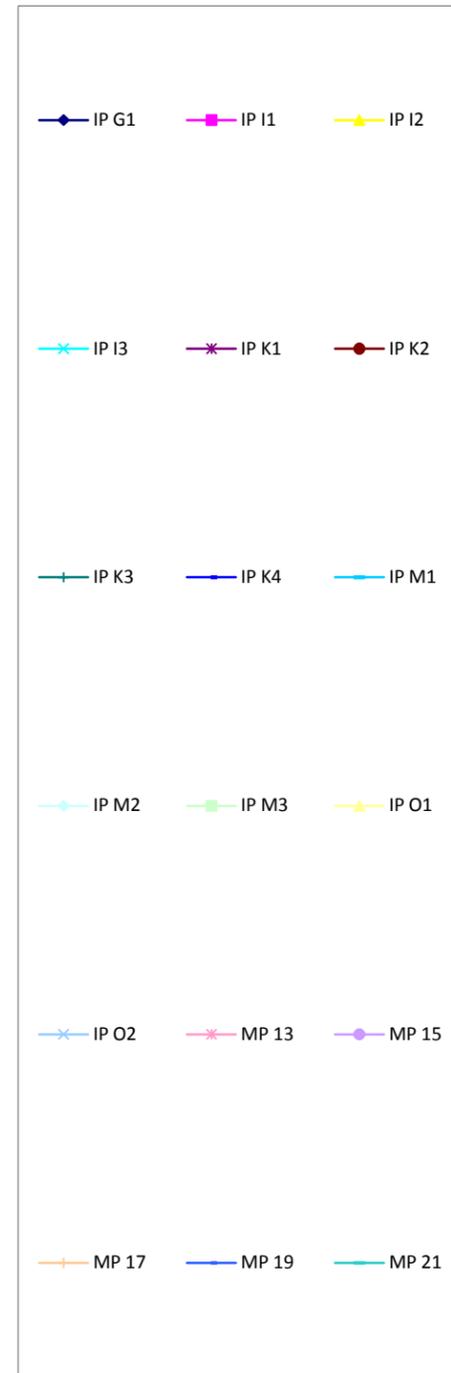
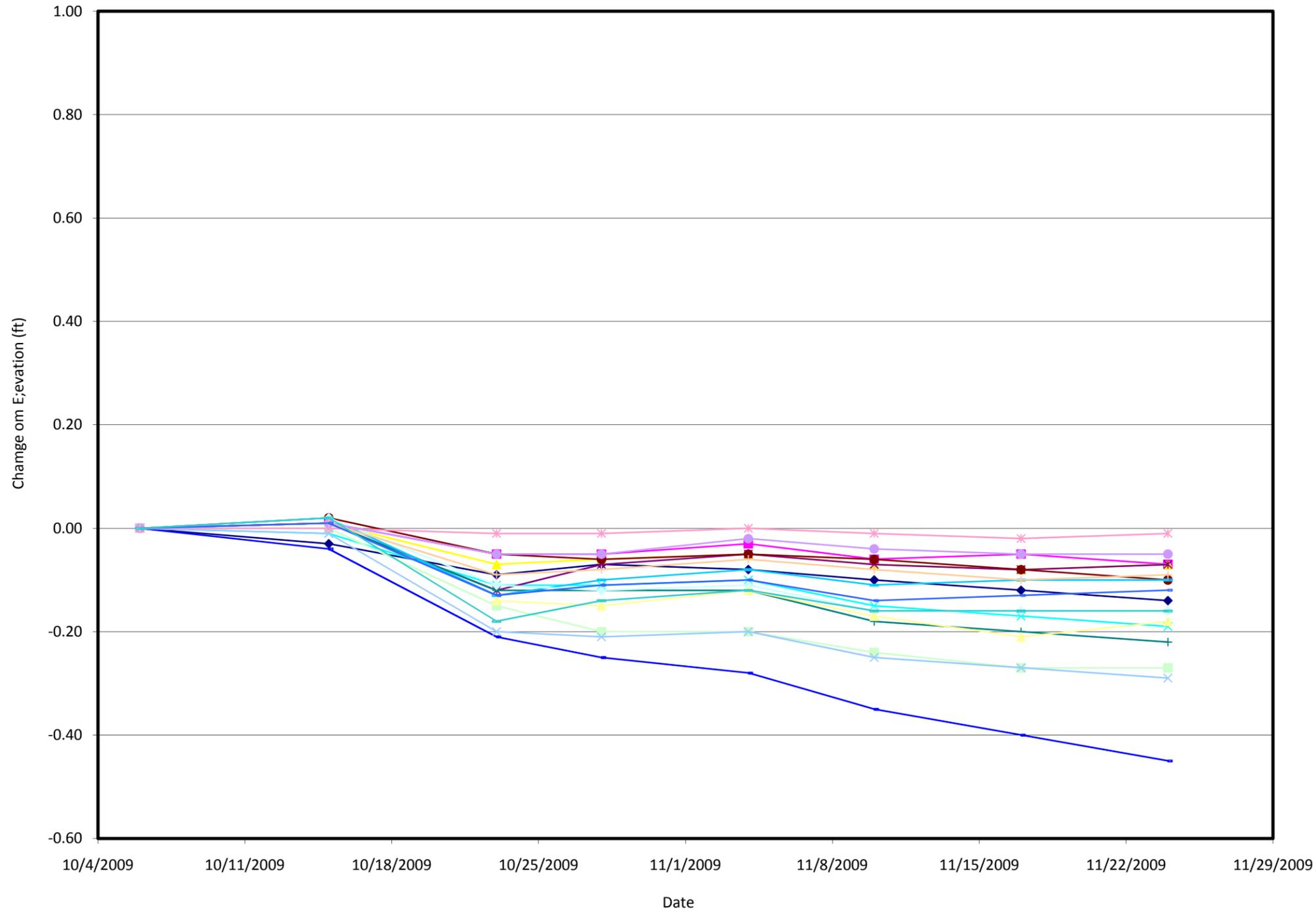
1. Data compiled by PJ Carey Associates, PC.
2. Survey provided by DEI beginning on October 5, 2009.

Graph 18 - North Slope Pin Movement Easting Change



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

Graph 19 - North Slope Pin Movement Elevation Change

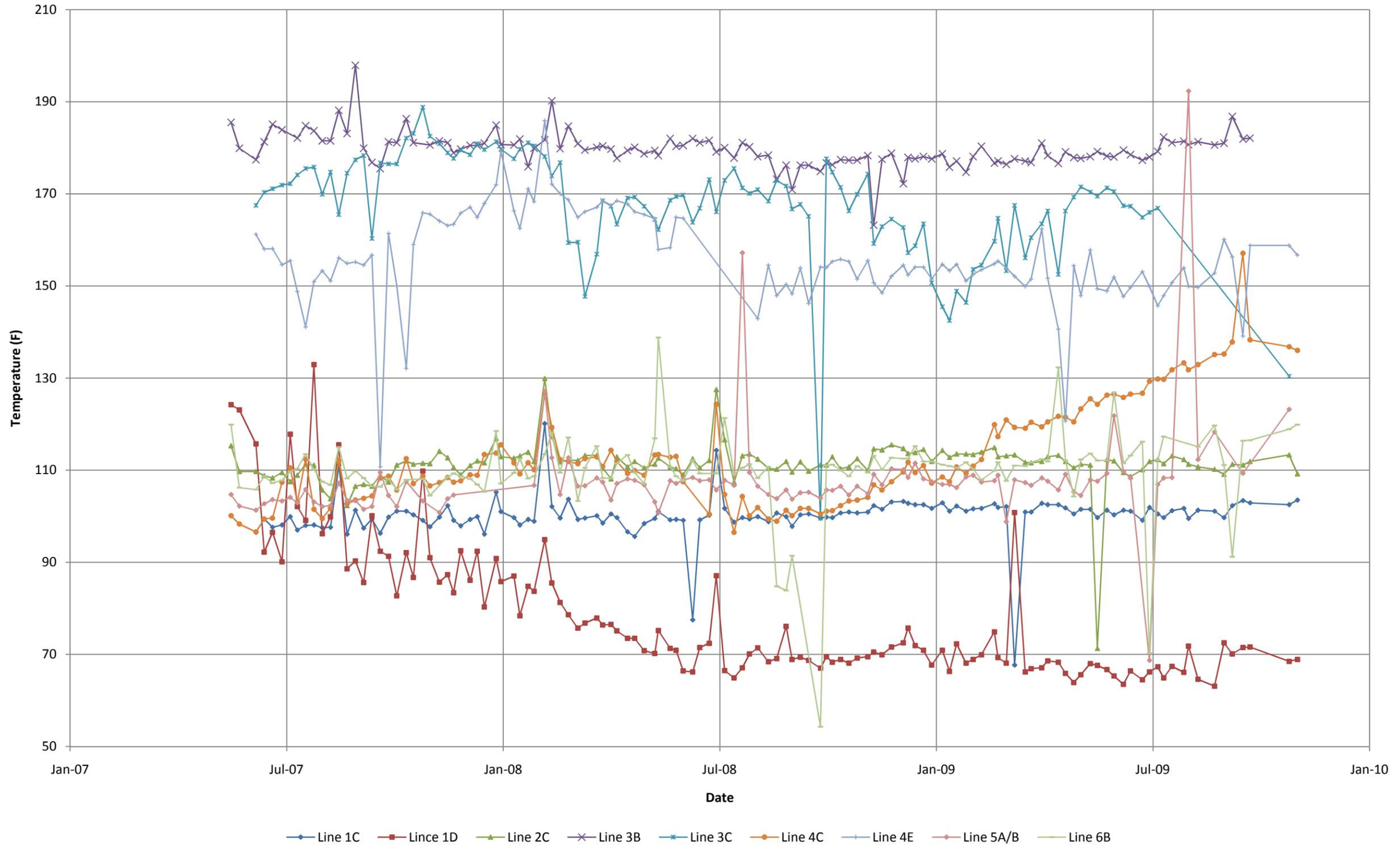


1. Data compiled by PJ Carey Associates, PC.
 2. Survey provided by DEI beginning on October 5, 2009.

Graph 20 Leachate Sump Temperature



Graph 21 Leachate Cleanout Temperature



Attachment 2

Tables

Table. 1 Leachate Constituent Summary

(to be included in December 2009 report)

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 Casing Lngth (ft)	68	36	78	48	123	57	123	70	123	60	68	121	122	56	122	61.5	43	73	
Total Perforated Pipe Length (ft)	45	16	54	23	99	36	99	45	99	39	44	96	97	31	97	38	21	55	
October, 2009																			
Date	10/27	10/9	10/29	10/9	10/29	10/27	10/29	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/29	10/9	10/9	10/9	
Depth To Fluid (ft)	36.1	17.9	10.1	18.8	44.1	5.8	59.4	15.9	61.4	18.6	38.2	32.9	55	25.3	22.5	36.6	22.9	51.8	
% Perforations Exposed	29%	0%	0%	0%	20%	0%	36%	0%	38%	0%	32%	8%	31%	1%	0%	34%	4%	61%	
November, 2009																			
Date	11/22	11/22	N/A	11/22	11/16	11/22	11/15	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/16	11/22	11/22	11/18	
Depth To Fluid (ft)	35.7	20.0	N/A	19.7	24.1	9.0	59.2	22.0	61.0	30.4	38.6	30.0	54.8	25.0	21.3	36.0	26.9	51.9	
% Perforations Exposed	28%	0%	N/A	0%	0%	0%	36%	0%	37%	24%	33%	5%	31%	0%	0%	33%	23%	62%	
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 Casing Lngth (ft)	102	102	85	74	91	78	78	105	78	78	69	66	50	37	31	62	77	78	
Total Perforated Pipe Length (ft)	84	84	67	48	73	60	60	81	60	60	45	45	26	19	13	44	59	60	
October, 2009																			
Date	11/22	11/22	N/A	11/22	11/16	11/22	11/15	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/16	11/22	11/22	11/18	
Depth To Fluid (ft)	35.7	20.0	N/A	19.7	24.1	9.0	59.2	22.0	61.0	30.4	38.6	30.0	54.8	25.0	21.3	36.0	26.9	51.9	
% Perforations Exposed	28%	0%	N/A	0%	0%	0%	36%	0%	37%	24%	33%	5%	31%	0%	0%	33%	23%	62%	
November, 2009																			
Date	11/22	11/16	11/16	11/16	11/16	11/22	11/22	11/15	11/16	11/16	11/22	11/22	11/16	11/18	11/18	11/18	11/17	11/18	
Depth To Fluid (ft)	50.5	45.4	57.0	67.3	62.0	40.4	22.1	63.6	29.8	32.4	50.4	43.4	41.9	31.1	23.3	63.7	73.7	72.3	
% Perforations Exposed	39%	33%	58%	86%	60%	37%	7%	49%	20%	24%	59%	50%	69%	69%	41%	100%	94%	91%	
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 Casing Lngth (ft)	78	84	105	89	72	78	46	43.5	78	63	75	75	119.7	121	121	81	62	70	
Total Perforated Pipe Length (ft)	60	60	80	64	50	60	31	25	60	45	60	60	103	103	103	58	40	46	
October, 2009																			
Date	10/9	10/29	10/9	10/9	10/9	10/9	10/9	10/9	10/29	10/9	10/29	10/29	10/29	10/29	10/29	10/29	10/29	10/29	
Depth To Fluid (ft)	65.7	70.6	35.4	66.6	54.8	34.4	31.9	37.2	21.8	49.6	45	22.6	62.8	64.5	70.1	30.5	30.9	33.4	
% Perforations Exposed	80%	78%	13%	65%	66%	27%	55%	75%	6%	70%	50%	13%	45%	45%	51%	13%	22%	20%	
November, 2009																			
Date	11/18	11/16	11/22	11/16	11/22	11/22	11/22	11/22	N/A	11/22	11/16	11/16	11/16	11/16	11/16	N/A	11/16	11/16	
Depth To Fluid (ft)	66.0	70.7	32.7	66.7	55.2	34.1	32.6	37.3	N/A	28.4	44.1	24.3	51.7	64.4	85.5	N/A	30.7	33.5	
% Perforations Exposed	80%	78%	10%	65%	66%	27%	57%	75%	N/A	23%	49%	16%	34%	45%	66%	N/A	22%	21%	
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 Casing Lngth (ft)	104	80	102	120	120	80	53	51	50	43	42	52	42	42	112	112	104	117	
Total Perforated Pipe Length (ft)	80	58	82	100	100	58	33	31	30	23	22	32	22	22	89	89	80	97	
October, 2009																			
Date	10/29	10/9	10/29	10/26	10/29	10/9	10/9	10/9	10/9	10/30	10/9	10/9	10/9	10/9	10/29	10/29	10/29	10/27	
Depth To Fluid (ft)	49.3	69	37.9	57.1	46.1	18	23.8	50.1	28.5	28.5	32.9	44.9	41.3	34.9	64.3	57	53.9	55.7	
% Perforations Exposed	32%	81%	22%	37%	26%	0%	12%	97%	28%	37%	59%	78%	97%	68%	46%	38%	37%	37%	
November, 2009																			
Date	11/16	11/22	11/16	11/16	11/16	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/16	11/16	11/16	11/22	
Depth To Fluid (ft)	49.0	36.5	36.0	56.7	49.5	22.3	23.1	49.8	29.3	27.9	33.1	44.9	41.3	34.6	88.7	56.6	51.1	55.5	
% Perforations Exposed	31%	25%	20%	37%	30%	1%	9%	96%	31%	34%	60%	78%	97%	66%	74%	38%	34%	37%	

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 Casing Lngth (ft)	119	117	102	100	117	117	122	80	93	61	40	47	117	114	105	80	77	44	
Total Perforated Pipe Length (ft)	97	95	80	75	97	97	95	58	68	15	18	22	92	90	80	58	55	24	
October, 2009																			
Date	10/27	10/27	10/27	10/27	10/27	10/27	10/27	10/9	10/30	10/27	10/29	10/27	10/27	10/29	10/29	10/29	10/29	10/29	10/30
Depth To Fluid (ft)	46.9	51.6	54.2	47.2	49.2	55.8	44.9	15.8	73	55	26.7	25.5	43.2	70.8	23.6	24.8	39.6	38.8	
% Perforations Exposed	26%	31%	40%	30%	30%	37%	19%	0%	71%	60%	26%	2%	20%	52%	0%	5%	32%	78%	
November, 2009																			
Date	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/22	11/17	11/18	11/15	11/22	11/22	11/15	11/16	11/16	11/16	11/16	11/17
Depth To Fluid (ft)	68.7	51.3	53.7	47.0	49.0	56.0	52.0	17.3	73.5	55.3	25.5	25.5	43.4	58.1	25.7	43.3	48.5	38.6	
% Perforations Exposed	48%	31%	40%	29%	30%	37%	26%	0%	71%	62%	19%	2%	20%	38%	1%	37%	48%	78%	
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 Casing Lngth (ft)	34	61	93	85	42	64	62	104	78	82	82	39	53	47	38	54	125	125	
Total Perforated Pipe Length (ft)	14	36	68	60	17	42	38	80	53	58	58	25	39	33	24	30	100	100	
October, 2009																			
Date	10/30	10/26	10/9	10/27	10/9	10/27	10/29	10/27	10/26	10/29	10/29	10/26	10/26	10/26	10/26	10/29	10/26	10/29	
Depth To Fluid (ft)	32.4	38.7	77.4	26.6	7.2	35.2	29.9	65.8	34.7	47.5	36	22.4	22.6	26.4	30.6	40	47.5	63.1	
% Perforations Exposed	89%	38%	77%	3%	0%	31%	16%	52%	18%	41%	21%	34%	22%	38%	69%	53%	23%	38%	
November, 2009																			
Date	11/17	11/17	11/18	11/22	11/22	11/22	11/15	11/22	11/22	11/15	11/15	11/22	11/22	11/22	11/22	11/16	11/16	11/16	
Depth To Fluid (ft)	32.0	38.6	77.9	32.0	6.8	34.9	29.0	65.4	34.3	46.6	35.5	22.2	22.4	25.6	30.3	40.0	47.0	98.0	
% Perforations Exposed	86%	38%	78%	12%	0%	31%	13%	52%	18%	39%	20%	33%	22%	35%	68%	53%	22%	73%	
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 Casing Lngth (ft)	113	46	72	85	33	37	35	38	34	36	103	119	43	43	92	54	52	81	
Total Perforated Pipe Length (ft)	88	20	48	65	12	16	13	14	15	18	85	94	21	21	72	29	34	43	
October, 2009																			
Date	10/27	10/29	10/29	10/30	10/30	10/26	10/26	10/26	10/26	10/26	10/26	10/26	10/30	10/30	10/30	10/30	10/26	10/26	
Depth To Fluid (ft)	49.1	20	33.2	52.2	31	30.3	32.3	30.8	24.6	34.6	31.3	35.6	37.2	31.3	45	43.8	46.8	51.6	
% Perforations Exposed	27%	0%	19%	50%	83%	58%	79%	49%	37%	92%	16%	11%	72%	44%	35%	65%	85%	32%	
November, 2009																			
Date	11/22	11/16	11/16	11/17	11/17	11/17	11/17	11/18	11/18	11/18	11/18	11/18	11/22	11/22	11/17	11/17	11/17	11/17	
Depth To Fluid (ft)	49.0	17.5	34.4	56.3	31.0	29.8	32.8	31.0	24.6	37.5	31.0	39.4	36.9	31.5	45.0	44.0	45.0	51.7	
% Perforations Exposed	27%	0%	22%	56%	83%	55%	83%	50%	37%	100%	15%	15%	71%	45%	35%	66%	79%	32%	
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 Casing Lngth (ft)	64	70	79	79	81	100	88	82	108	110	79	47							
Total Perforated Pipe Length (ft)	46	35	62	57	62	75	64	58	71	79	44	21							
October, 2009																			
Date	10/26	10/26	10/26	10/26	10/30	10/9	10/29	10/30	10/26	10/30	10/26	10/30							
Depth To Fluid (ft)	63.1	47.3	44.2	42.4	54.8	77.8	39.4	64	74.4	75.6	50.7	40.3							
% Perforations Exposed	98%	35%	44%	36%	58%	70%	24%	69%	53%	56%	36%	68%							
November, 2009																			
Date	11/18	11/18	11/18	11/18	11/18	11/22	11/16	11/17	11/18	11/18	11/18	11/18							
Depth To Fluid (ft)	63.3	47.7	39.2	42.3	55.4	77.8	29.5	64.0	74.6	75.8	50.9	40.3							
% Perforations Exposed	98%	36%	36%	36%	59%	70%	9%	69%	53%	57%	36%	68%							

Table 3. South Slope and West Berm Piezometer Readings

South Slope

Well ID	SS-1	SS-1	SS-1	SS-3	SS-3	SS-3	SS-5	SS-5	SS-5	SS-7	SS-7	SS-7
Depth Setting (ft)	18	23	28	17	22	25	14	19	24	12	17	22
October, 2009												
Date	N/A	N/A	26-Oct	26-Oct	26-Oct	26-Oct	26-Oct	N/A	N/A	26-Oct	26-Oct	26-Oct
Elevation	N/A	N/A	1149.82	1161.41	1152.50	1149.81	1165.57	N/A	N/A	1165.53	1160.49	1155.63
November, 2009												
Date	N/A	N/A	N/A	9-Nov	9-Nov	9-Nov	N/A	N/A	N/A	9-Nov	9-Nov	9-Nov
Elevation	N/A	N/A	N/A	1157.45	1152.98	1153.04	N/A	N/A	N/A	1165.60	1160.56	1155.72

West Berm

Well ID	WBPZ-1	WBPZ-1	WBPZ-2	WBPZ-2	WBPZ-3	WBPZ-3
Depth Setting (ft)	150	175	150	190	135	160
Elevation for F.S. = 1.2	1102	1102	1120	1120	1116	1116
Elevation for F.S. = 1.5	1048	1048	1081	1081	1095	1095
October, 2009						
Date	14-Oct	14-Oct	14-Oct	14-Oct	14-Oct	14-Oct
Elevation	975.01	949.58	986.17	N/A	1010.86	987.60
November, 2009						
Date	12-Nov	12-Nov	12-Nov	12-Nov	12-Nov	12-Nov
Elevation	974.45	948.83	985.61	-999.00	1010.25	985.84

Attachment 3

Figures

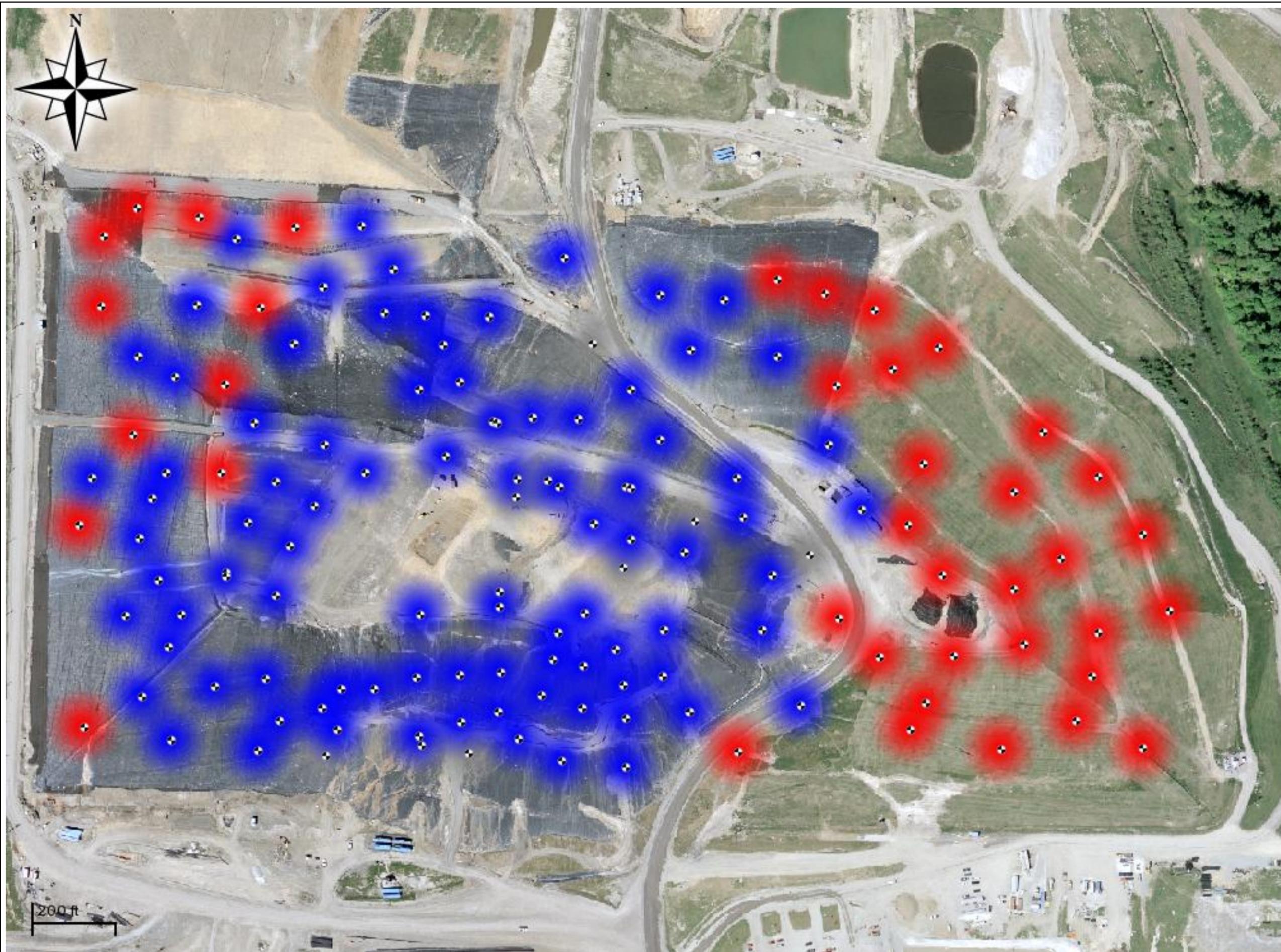


Figure 1
Average Methane to Carbon Dioxide Ratio
 Countywide Recycling and Disposal Facility
 3619 Gracemont St. S.W.
 East Sparta, Ohio

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

Color Legend

- <1
- >1
- No Data

Symbol Legend

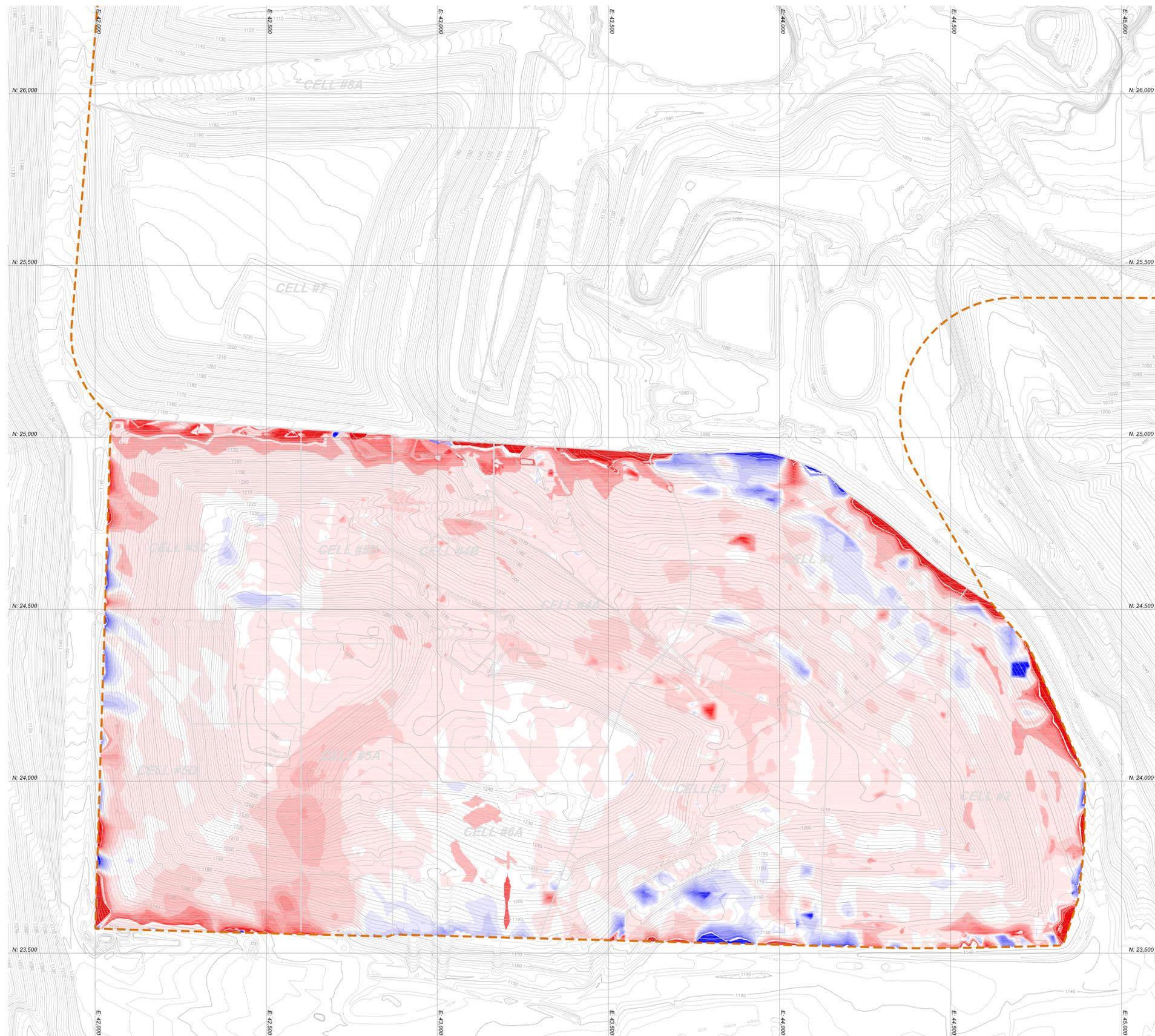
- Gas Well

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

Reporting Period: Nov, 2009

Map Generated On: 12/10/2009

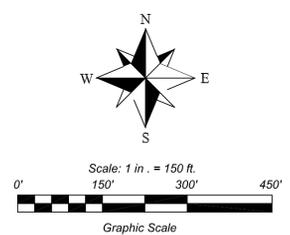




LEGEND:
 1120 EXISTING CONTOUR (AERIAL MAPPING 5/21/09), CTR INT. = 2'

**PERCENT OF SETTLEMENT LEGEND
 COLOR LEGEND**

- Greater than 2.0%
- 1.8% TO 2.0%
- 1.6% TO 1.8%
- 1.4% TO 1.6%
- 1.2% TO 1.4%
- 1.0% TO 1.2%
- 0.8% TO 1.0%
- 0.6% TO 0.8%
- 0.4% TO 0.6%
- 0.2% TO 0.4%
- 0.0% TO 0.2%
- 0.0% TO 0.0%
- 0.2% TO 0.0%
- 0.4% TO -0.2%
- 0.6% TO -0.4%
- 0.8% TO -0.6%
- 1.0% TO -0.8%
- 1.2% TO -1.0%
- 1.4% TO -1.2%
- 1.6% TO -1.4%
- 1.8% TO -1.6%
- 2.0% TO -1.8%
- Less than -2.0%



COUNTYWIDE RDF		PROJECT: 88 Ac. REMEDIATION UNIT	
SCALE: 1" = 150', CTR=2'	REVISIONS	SHEET TITLE: INCREMENTAL SETTLEMENT MAP (NOVEMBER 2009)	
SURVEYED:		FILE ID: Settlement Survey 11-09	FIGURE 2
DRAWN: BWS 12/09/09		<p>Diversified Engineering Inc. COUNTYWIDE ENGINEERS & SURVEYORS 225 FAR AVENUE, N.E. NEW PHILADELPHIA, OH 44663 Phone: (330) 364-3031 Fax: (330) 364-4633 Email: cwrdf@eng.com</p>	
CHECKED: CCV 12/09/09			
REVISED DATE:			

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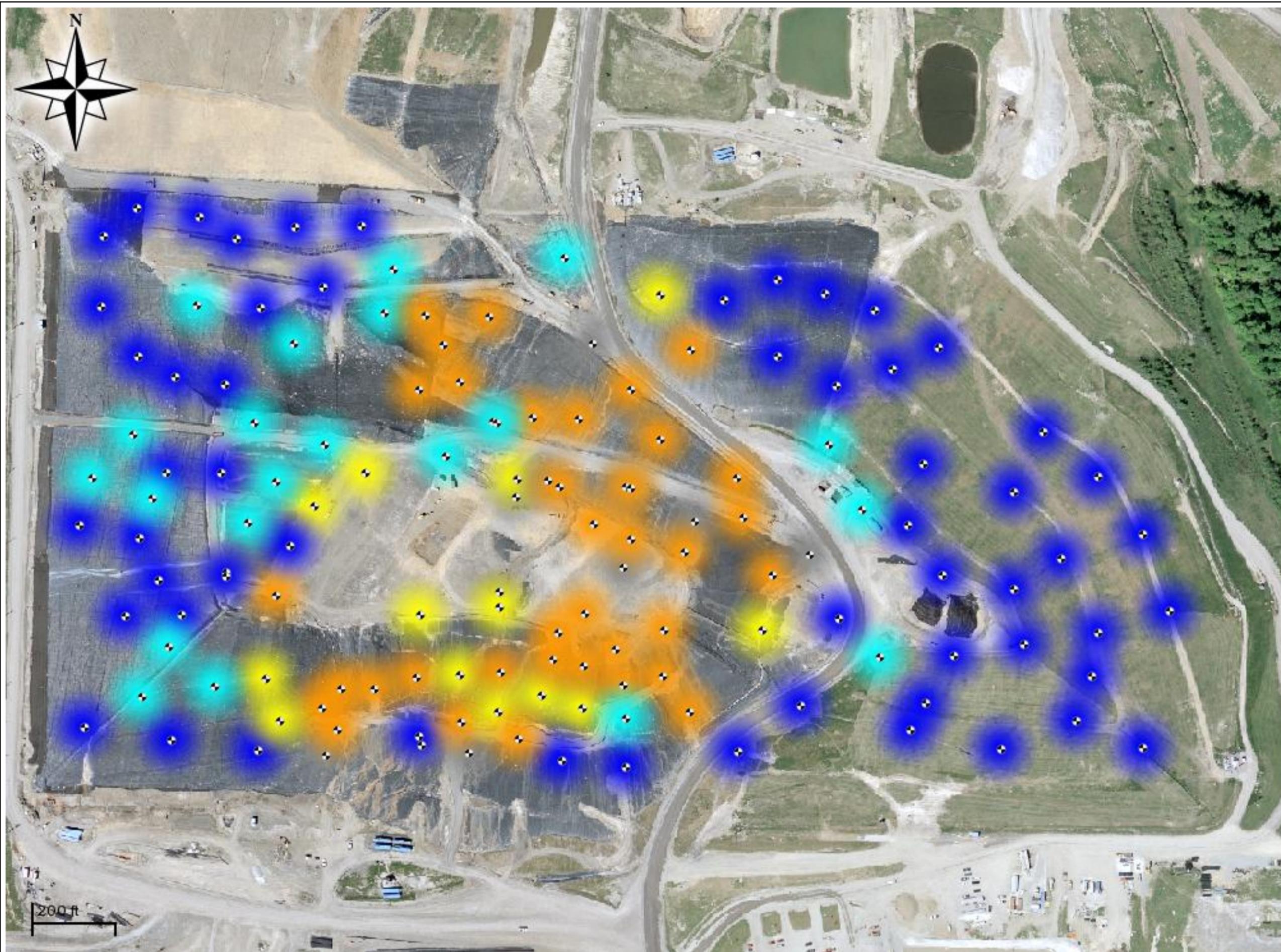


Figure 3
Average Wellhead
Temperature
 Countywide Recycling
 and Disposal Facility
 3619 Gracemont St. S.W.
 East Sparta, Ohio

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

Color Legend

- < 131
- 131 to 150
- 150 to 180
- 180 to 210
- > 210
- No Data

Symbol Legend

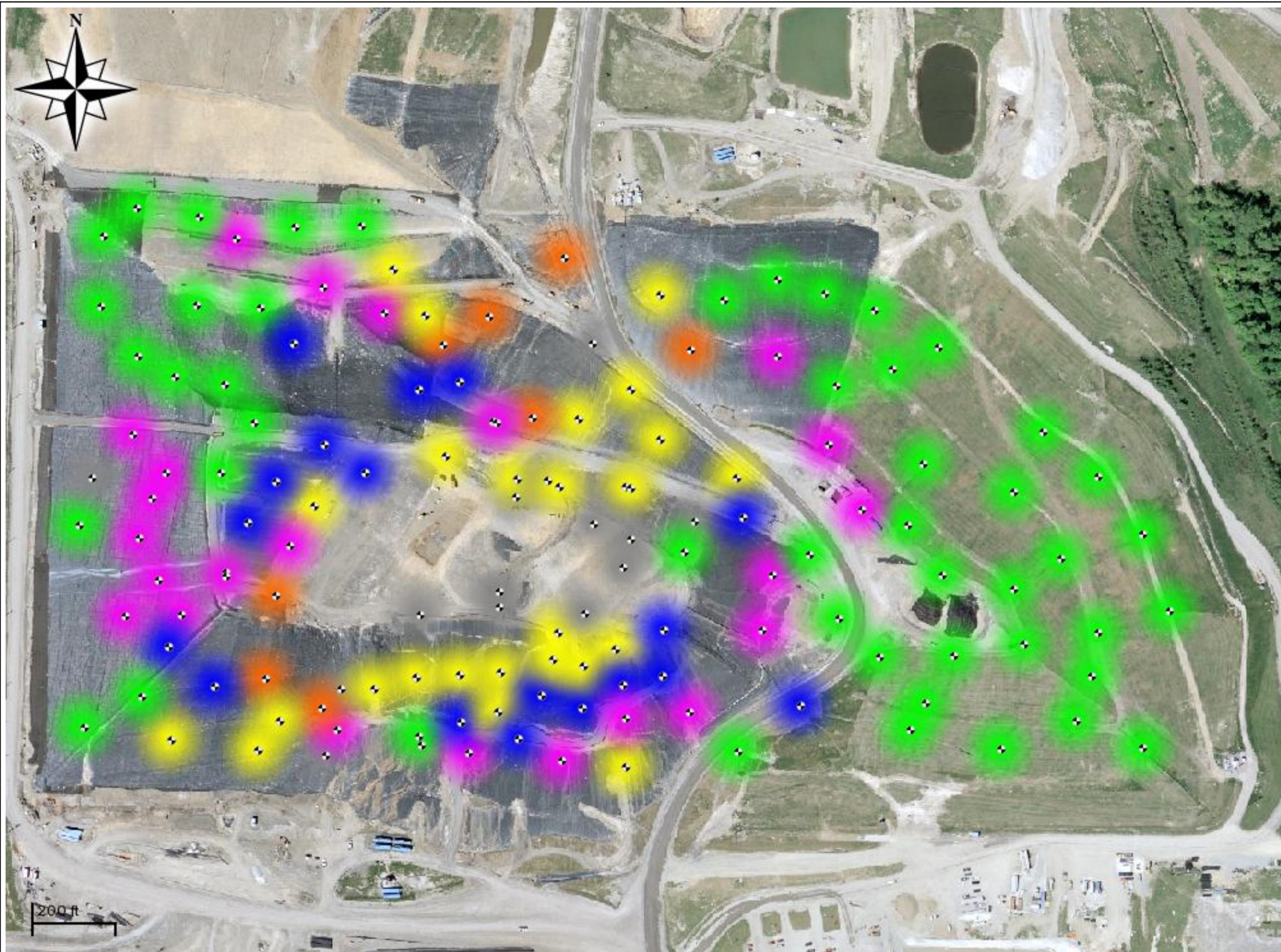
- Gas Well

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

Reporting Period: Nov, 2009

Map Generated On: 12/10/2009





**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

- < 100
- 100 to 500
- 500 to 1000
- 1000 to 2000
- > 2000
- No Data

Symbol Legend

- Gas Well

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

Reporting Period: Oct, 2009

Map Generated On: 12/10/2009

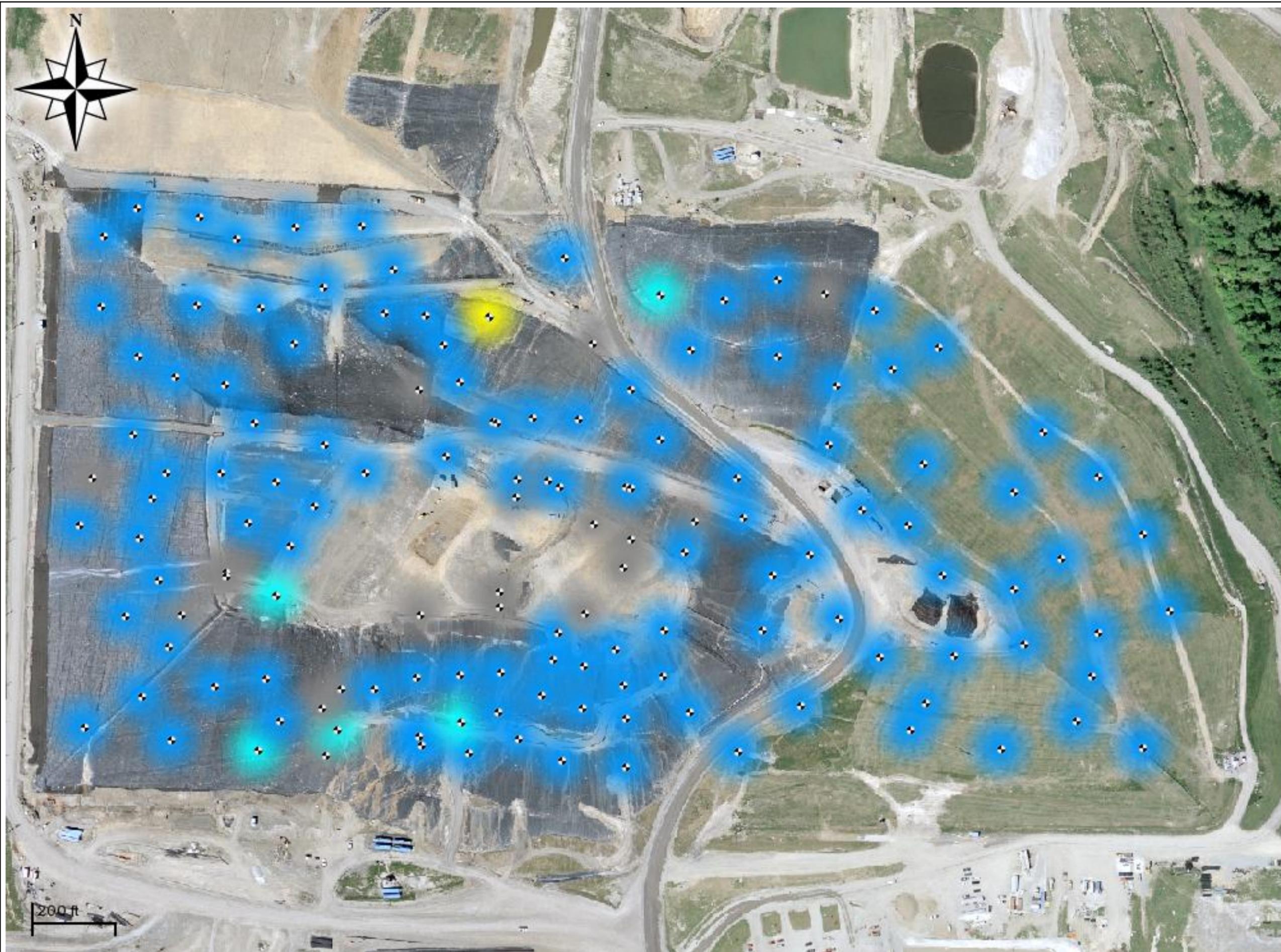


Figure 5
"Deadhead" Gas Well
Pressure Distribution
 Countywide Recycling
 and Disposal Facility
 3619 Gracemont St. S.W.
 East Sparta, Ohio

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

Color Legend

- < 0
- 0 to 50
- 50 to 100
- 100 to 150
- 150 to 200
- > 200
- No Data

Symbol Legend

- Gas Well

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

Reporting Period: Nov, 2009
 Map Generated On: 12/10/2009





Figure 6. Aerial Infrared Photograph

Composite Image by
Predictive Service LLC. 216.378.3500
Data Collected 11/16/2009

