



## Remediation Weekly Activity Summary Report Ameren LaSalle Former MGP - Soil Removal Action

Period: September 28 through October 4, 2015 (Week 107) PSC Project Number 624-1202-0012  
Completed By: Mark Kroenig

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### General Remediation Activities Completed:

PSC completed excavating and backfilling in the second excavation area in the Canal embankment and began the third area. A total of 16,895.87 tons of Construction Debris (0 tons this week) and 75,979.77 tons of Non-Source Material (1,823.83 tons this week) has been removed and hauled to Republic Services-Ottawa, Illinois Landfill. A total of 15,141.64 tons of clay (2,389.25 tons this week) and 95,620.89 tons of rock (lime screenings, one-inch minus, two- to three-inch clean rock, and CA6; 0 tons this week) has been brought in for backfill. To address the haul roads, parking areas, and substation area, a total of 1,971.02 tons of one-inch clean rock has been brought in (0 tons this week). Approximately 2,500 gallons of water removed from the excavation are currently containerized, while approximately 1,915,600 gallons (28,500 gallons this week) have been hauled offsite for disposal.

### Monday - September 28:

PSC resumed the excavation in the second section of the Canal embankment, along the south side. Two Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill, while two other trucks delivered clean clay from the Republic landfill. Excavation continued to the west and south. Due to the power lines, the material had to be handled three times in order to place it in a location to load trucks. PSC performed two compaction tests on Lifts # 6 and #7 and all four tests passed 95% compaction. PSC also collected two confirmation samples in the outer excavation, a floor sample and south sidewall sample by the Canal sediments. Two Bodine trucks were on site to haul a total of four loads of MGP-impacted water to PDC's Clinton landfill for proper disposal. Quality Liquid Feeds (QLF) aerated the storm water basin and pumped water from the basin into the City's wastewater treatment plant (WWTP).

### Tuesday - September 29:

PSC continued to excavate in the second section of the Canal embankment with two trucks from Kirschhoffer hauling the MGP-impacted material to the Republic landfill and two other trucks delivering clean clay from the Republic landfill. Excavation began on the southern toe of the second section of the embankment excavation, and the middle area of the second section was visually determined to be clean and free of the impacts that were previously observed at 21 feet below the main site surface. PSC performed compaction testing on Lift #8 and both tests passed 95% compaction. Bodine was on site to haul MGP-impacted water to PDC's Clinton landfill for proper disposal, and hauled 1.5 loads; Bodine could not pump the remaining water/ sediment slurry from the frac tank. QLF pumped water into the WWTP and aerated the storm water basin.

### Wednesday - September 30:

PSC continued to excavate in the second section of the Canal embankment. Four Kirschhoffer trucks were utilized on site; two hauled the MGP-impacted material to the Republic landfill, and two delivered clean clay to the site from Republic landfill. The southern toe of the second section of embankment excavation was completed and the crew began backfilling this area. The final depth of the excavation was at an approximate elevation of 440, which was visually clean. QLF pumped water into the WWTP and aerated the storm water basin.

### Thursday - October 1:

PSC continued to backfill the second section of the Canal embankment. Two Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill, while two other Kirschhoffer trucks delivered clean clay from the Republic landfill. The crew began excavating the southern toe of the third section of the embankment excavation. PSC performed compaction tests on Lift #9 and all three tests passed 95% compaction. PSC also collected three confirmation samples - two south sidewall samples and one floor sample - in the southern toe of the third excavation area in the embankment. The crew continued to backfill the excavation area. QLF aerated the storm water basin and pumped water into the WWTP.

### Friday - October 2:

PSC continued to load out MGP-impacted material from the stockpile with two Kirschhoffer trucks hauling it to the Republic landfill. Two other Kirschhoffer trucks imported clean clay from the Republic landfill to be used as backfill in the embankment. The crew completed Lifts #10 and #11 and worked on partial lifts to raise the outer elevation. PSC performed compaction tests on Lifts #10 and #11; all six tests passed 95% compaction. QLF pumped water into the WWTP and aerated the storm water basin.

### Saturday - October 3:

No work performed today.

### Health & Safety Activities:

Weather Conditions: This week was cooler and breezy, with spotty rain on Tuesday. Highs ranged from 63 - 81 degrees F, while lows ranged from 46 - 66 degrees F. The water level in the Canal remained low, dropping from 442 to 441.1 feet elevation.

H&S Issues/ Other: Safety topics for the week included "General Safety and LPSA," "Identifying Hazards" "Hand Safety - Best Practices," and all applicable JLAs were reviewed daily.

### Out of Scope Items:

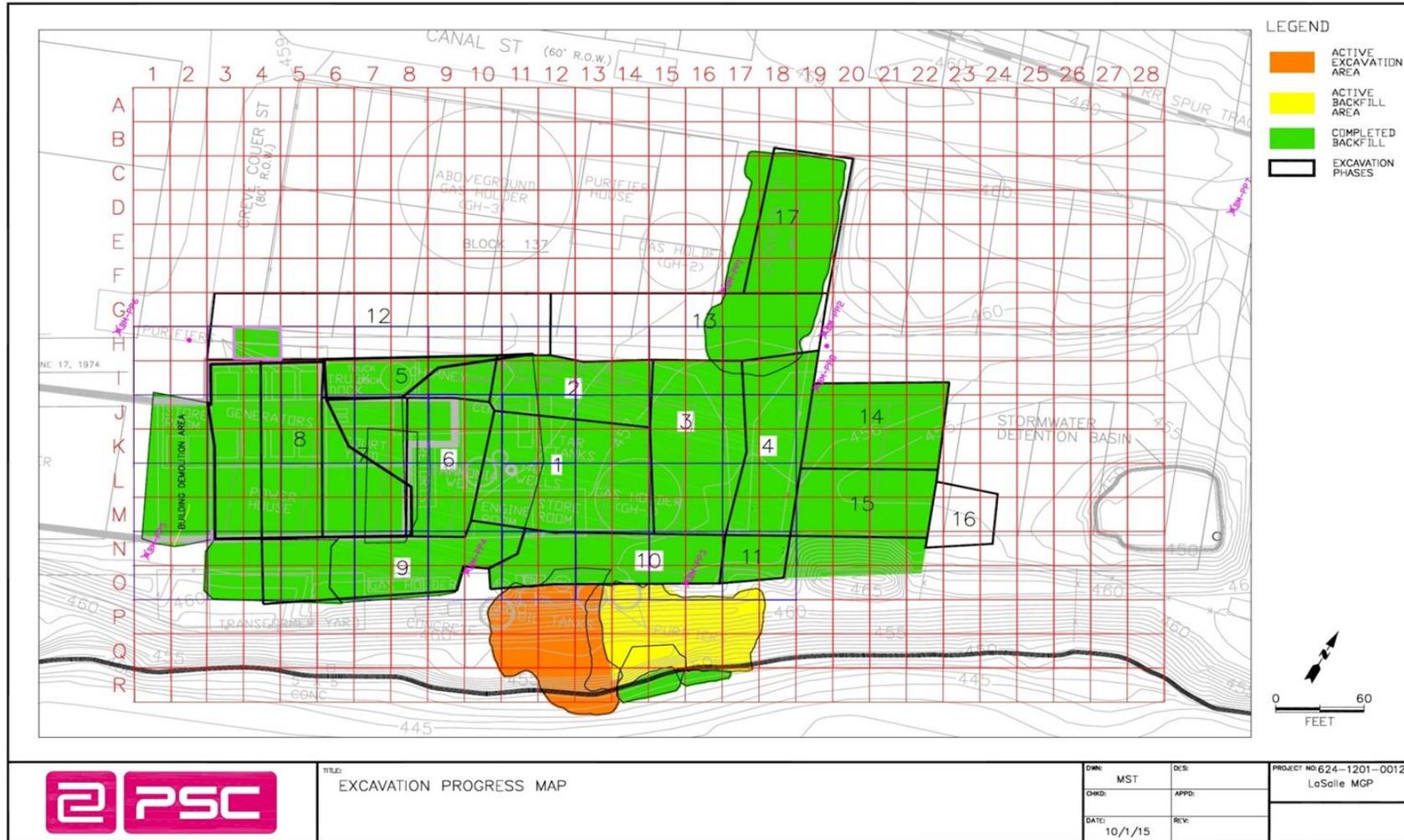
None.



Remediation Footprint and Excavation Progress Map  
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**Air Monitoring Activity Summary Report  
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**LaSalle MGP Air Monitoring Progress Report  
Week Ending October 3, 2015**

**Developments During Reporting Period**

***Activities Performed***

- Time integrated air samples were collected from September 29<sup>th</sup> to October 2<sup>nd</sup>, and from October 2<sup>nd</sup> to October 5<sup>th</sup>. Samples collected on October 2<sup>nd</sup> were picked up by STAT on October 2<sup>nd</sup>. Samples collected on October 5<sup>th</sup> were picked up by STAT on October 5<sup>th</sup>.
- CEC performed hourly real-time air monitoring during work hours at the five time-integrated air monitoring station locations for particulate matter less than 10 micron in aerodynamic size (PM<sub>10</sub>) and volatile organic compounds (VOC). Results indicate that all parameters were below the real-time action levels.

***Sampling Problems Encountered***

- None.

***Real-time Air Quality Exceedances Detected***

- None

***Time-integrated Analytical Data Received***

- Time-integrated sampling results for sampling events through September 11<sup>th</sup> for benzene, PM<sub>10</sub>, and naphthalene were reported via email on October 8<sup>th</sup>. Analytical results to date for benzene, PM<sub>10</sub> and PAHs indicate that the running average air concentrations at each air monitoring station are less than the risk-based standards calculated for the project.
- The air quality objectives (for naphthalene and for benzene) have been updated to cover an anticipated project period of 2 years (720 days).
- CEC will continue to update results as analytical data becomes available.

**Developments Anticipated During Next Reporting Period**

***Activities to be Performed***

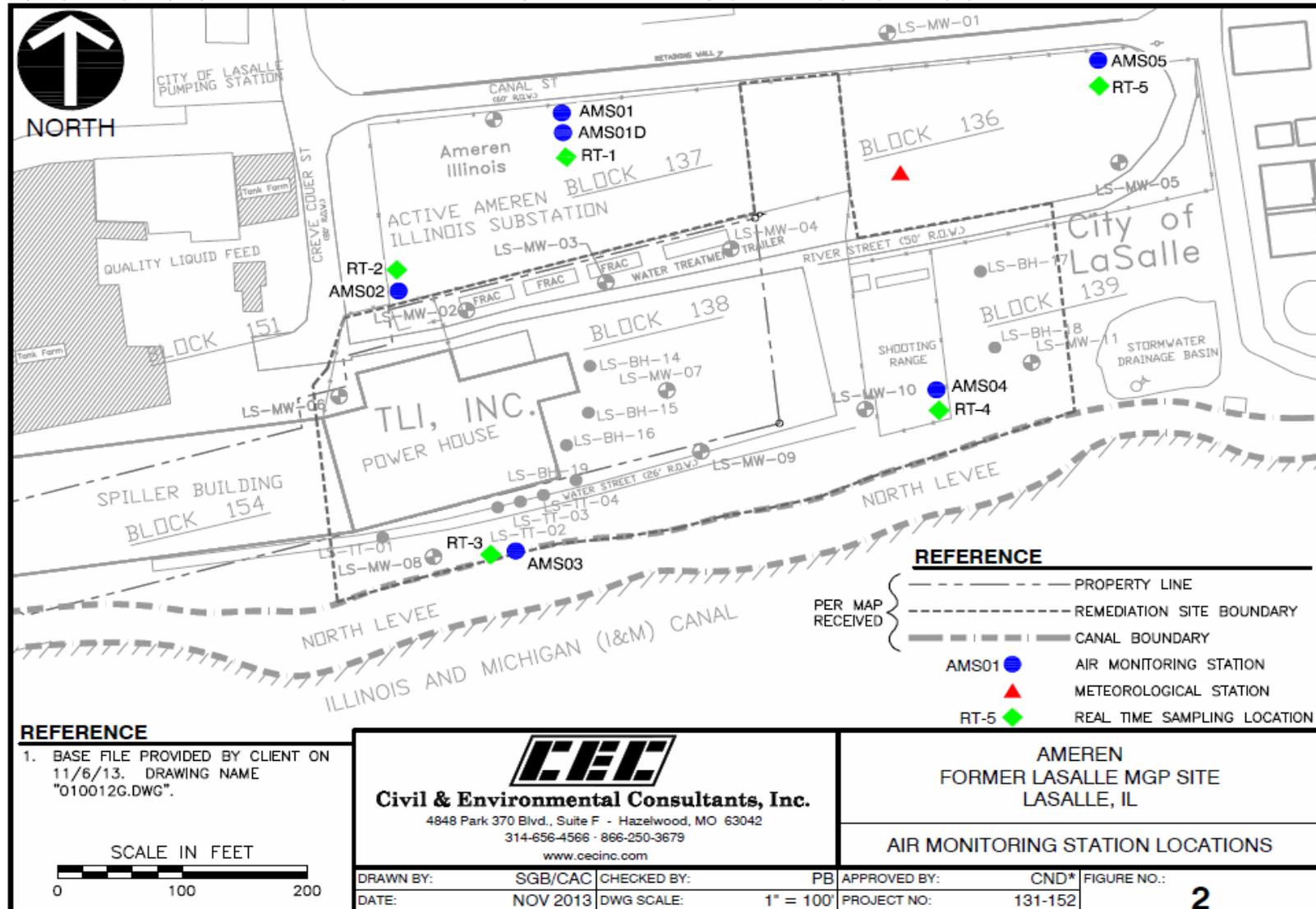
- Time-integrated air monitoring at the five air monitoring stations.
- Real-time monitoring continuing during remedial activities.
- Continue monitoring and reporting of real-time air monitoring results during the project.
- Review time-integrated analytical data and prepare preliminary air monitoring results as they become available.
- Perform data validation activities as data becomes available from STAT.



**Air Monitoring Station Locations  
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**Project Milestones Summary Report  
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**Project Milestones**

Actual Quantities

<u>Weather:</u>	<u>Prior Total:</u>	<u>This Period:</u>	<u>Total To Date:</u>	
Rainfall (inches) 2015	33.98	0.00	33.98	2014 total 41.82" rain
Snowfall (inches) winter 2014-2015	36.27	0.00	36.27	snowfall for winter 2013-2014 was 60.15"

**Material Type:**

Project Estimates

Original:    Revised:

Solid Waste Material:

Construction & Demolition Debris- Republic (tons)	16,895.87	0.00	16,895.87	0	0
MGP Impacted Soil (Non-Source)- Republic (tons)	74,155.94	1,823.83	75,979.77	120,000*	0
MGP Impacted Soil (Source)- PDC (tons)	0.00	0.00	0.00	0	0
<b>TOTAL</b>	<b>91,051.81</b>	<b>1,823.83</b>	<b>92,875.64</b>	<b>0</b>	<b>0</b>

Addt. Solid Waste Material:

Clean Brick-Canon Pit (loads)	111.00	0.00	111.00	0	0
Asbestos Containing Material (ACM)- Republic (tons)	1,240.00	0.00	1,240.00	0	0
Scrap Metal (loads)	9.00	0.00	9.00	0	0
United Scrap Material (weight)	151.55	0.00	151.55	0	0

Clean Material:

CM-06, 1-inch Minus (tons)	14,632.93	0.00	14,632.93	0	0
Lime Screenings (tons)	67,369.82	0.00	67,369.82	0	0
CS-02, 2- to 3-Inch Clean Stone (tons)	8,669.98	0.00	8,669.98	0	0
2-Inch Clean Stone (tons)	0.00	0.00	0.00	0	0
4-Inch Crushed Concrete (tons)	0.00	0.00	0.00	0	0
Sand from River Stone	68.52	0.00	68.52	0	0
Washed sand from WA Triumph Quarry	350.46	0.00	350.46	0	0
CA6 (Grade 8 rock, tons)	4,529.18	0.00	4,529.18	0	0
<i>Stone Backfill Subtotal</i>	<i>95,620.89</i>	<i>0.00</i>	<i>95,620.89</i>	<i>0</i>	<i>0</i>
CA-7, 1-Inch Clean Stone (tons)	1,971.02	0.00	1,971.02	0	0
CA-11 from Utica Quarry (3/4 crushed, tons)	23.28	0.00	23.28	0	0
Clean Soil Backfill (tons)	12,752.39	2,389.25	15,141.64	0	0
Top Soil (cubic yard)	0.00	0.00	0.00	0	0
<b>TOTAL</b>	<b>110,367.58</b>	<b>2,389.25</b>	<b>112,756.83</b>	<b>0</b>	<b>0</b>

Impacted Wastewater:

Accumulated in onsite storage (gallons)	1,918,100	0	1,918,100	0	0
Discharged to PDC (gallons)	1,887,100	28,500	1,915,600	0	0

\*MGP Impacted Soil volume is data presented in the site investigation report.

Trucks Transporting:

Monday    Tuesday    Wednesday    Thursday    Friday    Issues

Actually Received	4	4	4	4	4	
Requested	4	4	4	4	4	



Bottom of excavation in southern toe of the second section of the Canal embankment excavation on 9/28/2015, looking south.



Removal progress of the impacted material between the two previous trenches on 9/29/2015.



Beginning excavation in the east half of the outer toe of the second section of the embankment excavation on 9/30/2015. Photo looking southwest into Canal.



From the Canal sediment level, looking northwest at the third section of the embankment excavation on 10/1/2015.

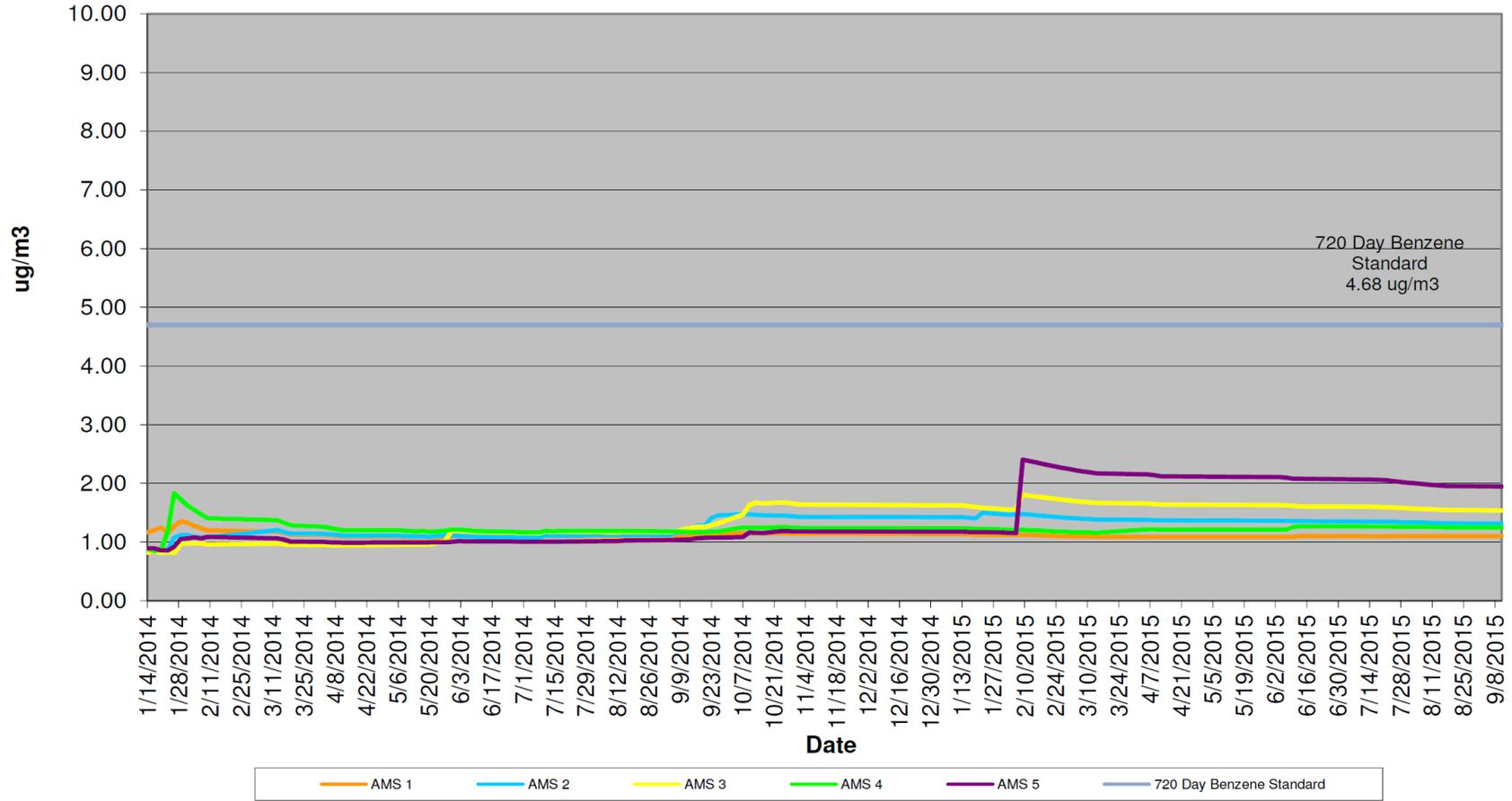


Looking southwest at Lift #11 after compaction on 10/2/2015. All compaction tests passed 95% compaction.

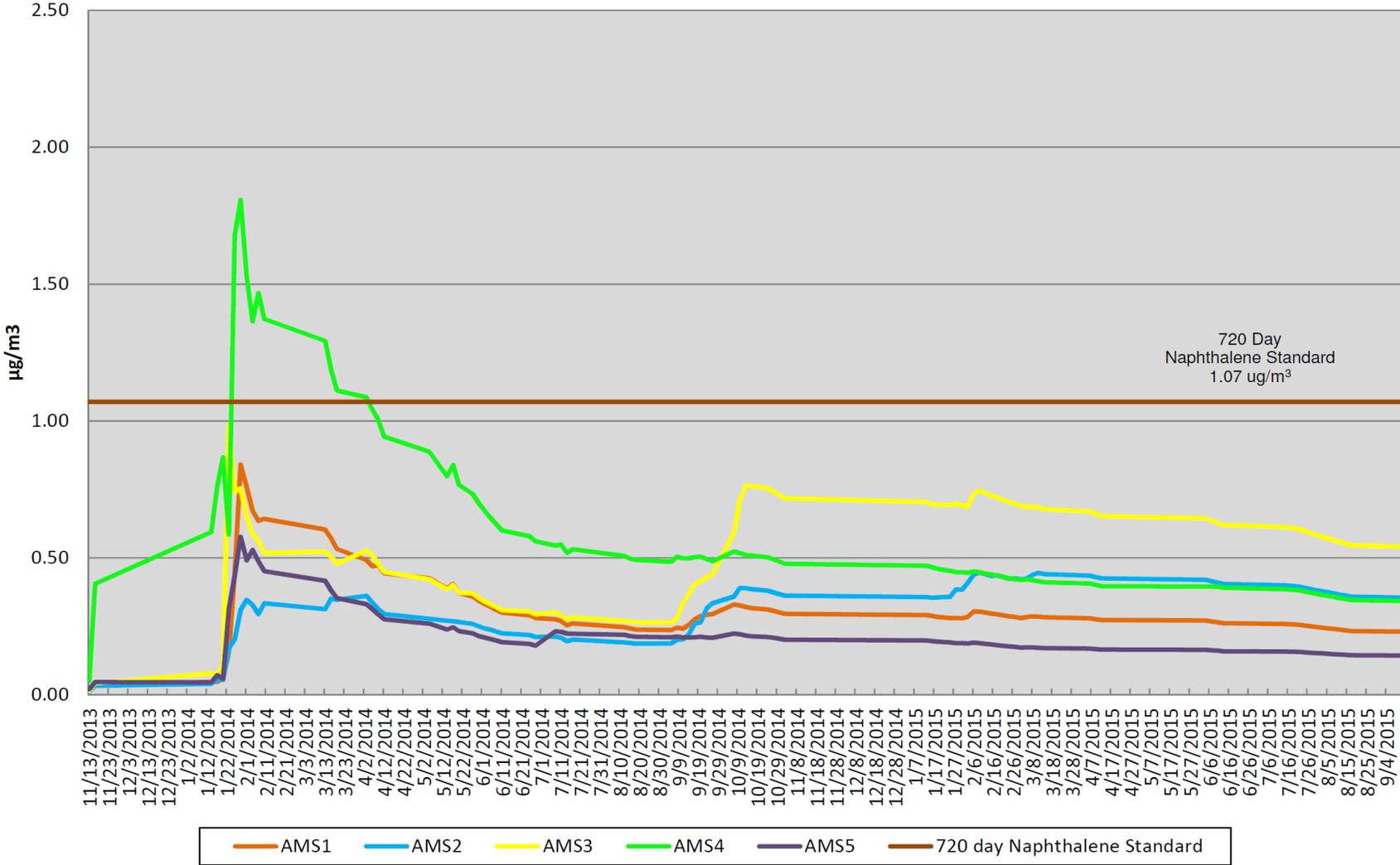


Looking south at the City's storm water basin on 10/2/2015. QLF aerated and pumped water to the WWTP.

### Preliminary Benzene Running Averages LaSalle MGP Site 1/14/2014 - 9/11/2015



Preliminary Naphthalene Running averages  
LaSalle MGP Site  
1/14/2014-9/11/2015



### Preliminary PM<sub>10</sub> Running Averages LaSalle MGP Site 1/14/2014 to 9/11/2015

