



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

Period: October 5 through 11, 2015 (Week 108)  
Completed By: Mark Kroenig

PSC Project Number 624-1202-0012

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**General Remediation Activities Completed:**

PSC completed backfilling in the second excavation area in the Canal embankment and continued the excavation in the third area. A total of 16,895.87 tons of Construction Debris (0 tons this week) and 78,968.80 tons of Non-Source Material (2,989.03 tons this week) has been removed and hauled to Republic Services-Ottawa, Illinois Landfill. A total of 16,059.84 tons of clay (918.20 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 (0 gallons this week) have been hauled offsite for disposal.

**Monday - October 5:**

PSC resumed the excavation in the outer toe of the third section of the Canal embankment and continued to backfill in the second section. Two Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill, while two other trucks delivered clean clay from the Republic landfill. PSC performed compaction tests on Lifts #12, #13, #14, and #15 with the Electric Density Gauge (EDG) and all ten tests passed 95% compaction. PSC also collected a floor confirmation sample in the third section of the Canal embankment excavation at an elevation of 439 feet. Quality Liquid Feeds (QLF) aerated the storm water basin and pumped water from the basin into the City's wastewater treatment plant (WWTP). QLF completed pumping all of the water from the basin except for approximately 8 inches of water remaining at the bottom that was too shallow to be pumped.

**Tuesday - October 6:**

PSC continued to excavate in the third section of the Canal embankment and backfill in the second section 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. PSC performed compaction testing on Lifts #16 and 17 in the second section of the embankment excavation; all four tests passed 95% compaction. These were the last lifts until the upper part of the berm is constructed. The excavation in the outer toe of the third section of the embankment was completed and PSC collected a south wall confirmation sample. The crew began to backfill this area. QLF sealed the inlet to the manhole where the City's transfer will go and pumped out the water so that the City could set their pump.

**Wednesday - October 7:**

PSC continued to excavate in the third section of the Canal embankment. All four Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill; no backfill was available from Republic due to their excavator being down. PSC excavated in the southern portion of this area and will begin in the northern portion after the current excavation is backfilled in order to reduce the area that perched water from the Phase 10 excavation will flood. The south side impacts appeared to extend to an elevation of approximately 440 feet based on the test area.

**Thursday - October 8:**

PSC continued to excavate the third section of the Canal embankment. Four Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill. The excavation was widened and progressed north. The second excavator worked on the north side of the third section in order to determine the location of the toe of the Phase 10 excavation. A trench was excavated at the interface between these area, to be filled with clean clay in an attempt to stop groundwater flow into the new excavation. A large concrete slab was discovered in this area on the west side of the third section, near the Ameren power pole.

**Friday - October 9:**

PSC continued to excavate and load out MGP-impacted material from the third section of the excavation area with four Kirschhoffer trucks hauling it to the Republic landfill. The excavation remained relatively shallow to prevent any infiltration from the north. The excavation will continue deeper and to the north on Monday in order to give the crew time to pump the water from the excavation. Two pipes (2 inch diameter steel threaded pipe and 4 inch diameter steel pipe) were uncovered at an elevation of 440 feet along the southern toe of the third embankment excavation (located in grids R9/10 on the remediation footprint). The pipes appeared to run southwest into the Canal and were cleanly cut off. The pipes appeared to contain canal sediments and were not grouted.

**Saturday - October 10:**

No work performed today.

**Health & Safety Activities:**

Weather Conditions: This week was cooler with a mix of sun and clouds. Highs ranged from 64 - 79 degrees F, while lows ranged from 51 - 58 degrees F. The water level in the Canal remained low and fairly steady at an elevation of approximately 440.8 feet.

H&S Issues/ Other: Safety topics for the week included daily excerpts from "Hand Safety - Best Practices." All applicable JLAs were reviewed daily.

**Out of Scope Items:**

None.



### Remediation Footprint and Excavation Progress Map Ameren LaSalle Former MGP - Soil Removal Action

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TITLE: EXCAVATION PROGRESS MAP

DWN: MST	DCS:
CHKD:	APPD:
DATE: 10/12/15	REV:

PROJECT NO: 624-1201-0012  
LaSalle MGP



**Air Monitoring Activity Summary Report  
Ameren LaSalle Former MGP - Soil Removal Action**

Period: October 5 through 11, 2015 (Week 108)  
Completed By: Mark Kroenig

PSC Project Number 624-1202-0012

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**LaSalle MGP Air Monitoring Progress Report  
Week Ending October 10, 2015**

**Developments During Reporting Period**

*Activities Performed*

- Time integrated air samples were collected from October 5<sup>th</sup> to October 8<sup>th</sup>, and from October 8<sup>th</sup> to October 11<sup>th</sup>. Samples collected on October 8<sup>th</sup> were picked up by STAT on October 8<sup>th</sup>. Samples collected on October 11<sup>th</sup> were picked up by STAT on October 12<sup>th</sup> (TO15 and PM<sub>10</sub>) and on October 13<sup>th</sup> (TO13).
- 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*

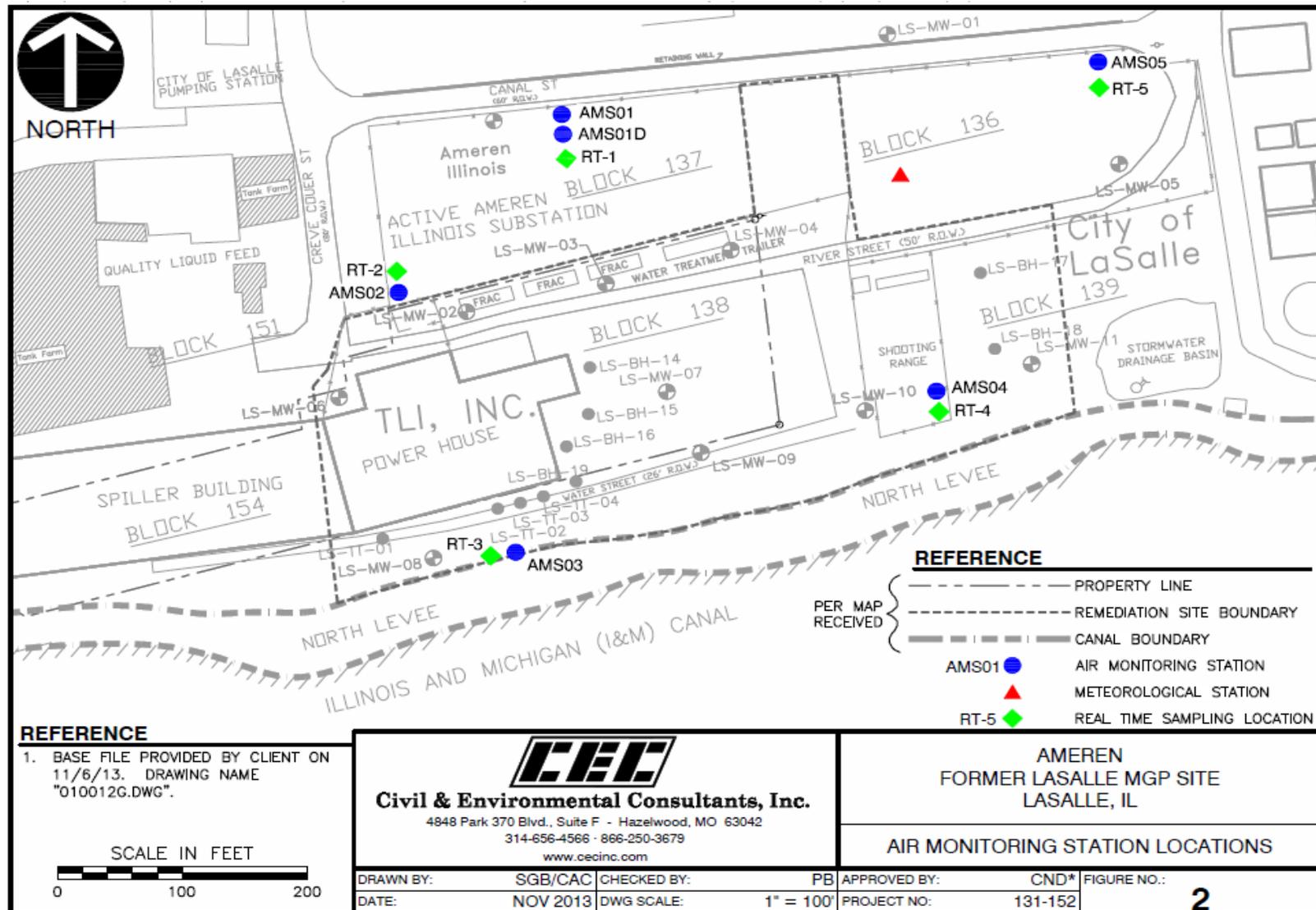
- Time-integrated air monitoring at the five air monitoring stations.
- Real-time monitoring continuing during remedial activities.
- Continue monitoring and reporting of real-time air monitoring results during the project.
- Review time-integrated analytical data and prepare preliminary air monitoring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



**Air Monitoring Station Locations  
Ameren LaSalle Former MGP - Soil Removal Action**

Period: October 5 through 11, 2015 (Week 108)  
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**REFERENCE**  
 1. BASE FILE PROVIDED BY CLIENT ON 11/6/13. DRAWING NAME "010012G.DWG".



**REFERENCE**

---	PROPERTY LINE
- - - -	REMEDIATION SITE BOUNDARY
- . - . - .	CANAL BOUNDARY
● (blue)	AMS01 AIR MONITORING STATION
▲ (red)	METEOROLOGICAL STATION
◆ (green)	RT-5 REAL TIME SAMPLING LOCATION

**Civil & Environmental Consultants, Inc.**  
 4848 Park 370 Blvd., Suite F - Hazelwood, MO 63042  
 314-656-4566 - 866-250-3679  
 www.cecinc.com

**AMEREN  
 FORMER LASALLE MGP SITE  
 LASALLE, IL**

**AIR MONITORING STATION LOCATIONS**

DRAWN BY: SGB/CAC	CHECKED BY: PB	APPROVED BY: CND*	FIGURE NO.:
DATE: NOV 2013	DWG SCALE: 1" = 100'	PROJECT NO: 131-152	<b>2</b>



**Project Milestones Summary Report  
Ameren LaSalle Former MGP - Soil Removal Action**

Period: October 5 through 11, 2015 (Week 108)  
 Completed By: Mark Kroenig

PSC Project Number 624-1202-0012

**Project Milestones**

Actual Quantities

Weather:

Rainfall (inches) 2015

Snowfall (inches) winter 2014-2015

Prior Total: This Period: Total To Date:

Prior Total:	This Period:	Total To Date:
33.98	0.00	33.98
36.27	0.00	36.27

2014 total 41.82" rain  
 snowfall for winter 2013-2014 was 60.15"

**Material Type:**

Project Estimates

Original:    Revised:

Solid Waste Material:

Construction & Demolition Debris- Republic (tons)

MGP Impacted Soil (Non-Source)- Republic (tons)

MGP Impacted Soil (Source)- PDC (tons)

TOTAL

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
Construction & Demolition Debris- Republic (tons)	16,895.87	0.00	16,895.87	0	0
MGP Impacted Soil (Non-Source)- Republic (tons)	75,979.77	2,989.03	78,968.80	120,000*	0
MGP Impacted Soil (Source)- PDC (tons)	0.00	0.00	0.00	0	0
TOTAL	92,875.64	2,989.03	95,864.67	0	0

Addt. Solid Waste Material:

Clean Brick-Canon Pit (loads)

Asbestos Containing Material (ACM)- Republic (tons)

Scrap Metal (loads)

United Scrap Material (weight)

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
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)

Lime Screenings (tons)

CS-02, 2- to 3-Inch Clean Stone (tons)

2-Inch Clean Stone (tons)

4-Inch Crushed Concrete (tons)

Sand from River Stone

Washed sand from WA Triumph Quarry

CA6 (Grade 8 rock, tons)

*Stone Backfill Subtotal*

CA-7, 1-Inch Clean Stone (tons)

CA-11 from Utica Quarry (3/4 crushed, tons)

Clean Soil Backfill (tons)

Top Soil (cubic yard)

TOTAL

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
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>	95,620.89	0.00	95,620.89	0	0
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)	15,141.64	918.20	16,059.84	0	0
Top Soil (cubic yard)	0.00	0.00	0.00	0	0
TOTAL	112,756.83	918.20	113,675.03	0	0

Impacted Wastewater:

Accumulated in onsite storage (gallons)

Discharged to PDC (gallons)

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
Accumulated in onsite storage (gallons)	1,918,100	0	1,918,100	0	0
Discharged to PDC (gallons)	1,915,600	0	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

Requested

	Monday	Tuesday	Wednesday	Thursday	Friday	Issues
Actually Received	4	4	4	4	4	
Requested	4	4	4	4	4	



Excavation in the west half of the cut-off trench toe in the third section of the embankment excavation on 10/5/2015 (looking east). PSC collected a floor sample.



Looking south at the storm water basin on 10/5/2015; remaining water was too shallow to be pumped out.



Looking south at the outer south slope into the Canal on 10/6/2015. The dark soil is heavily impacted.



Looking south at the completed/ backfilled outer toe of the third section of the embankment excavation on 10/7/2015.

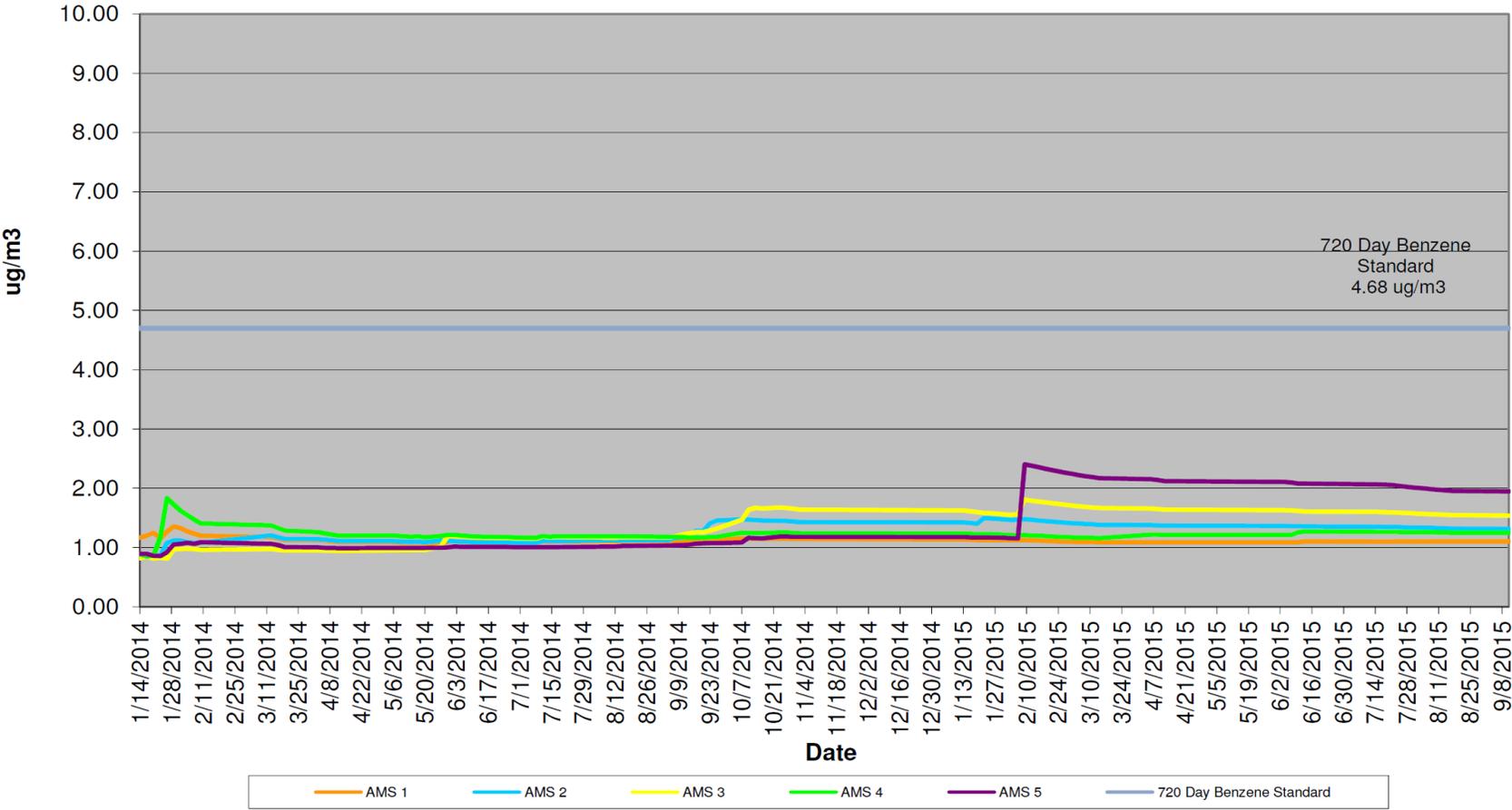


Looking west at the third excavation section and the large concrete foundation that was discovered on 10/8/2015.

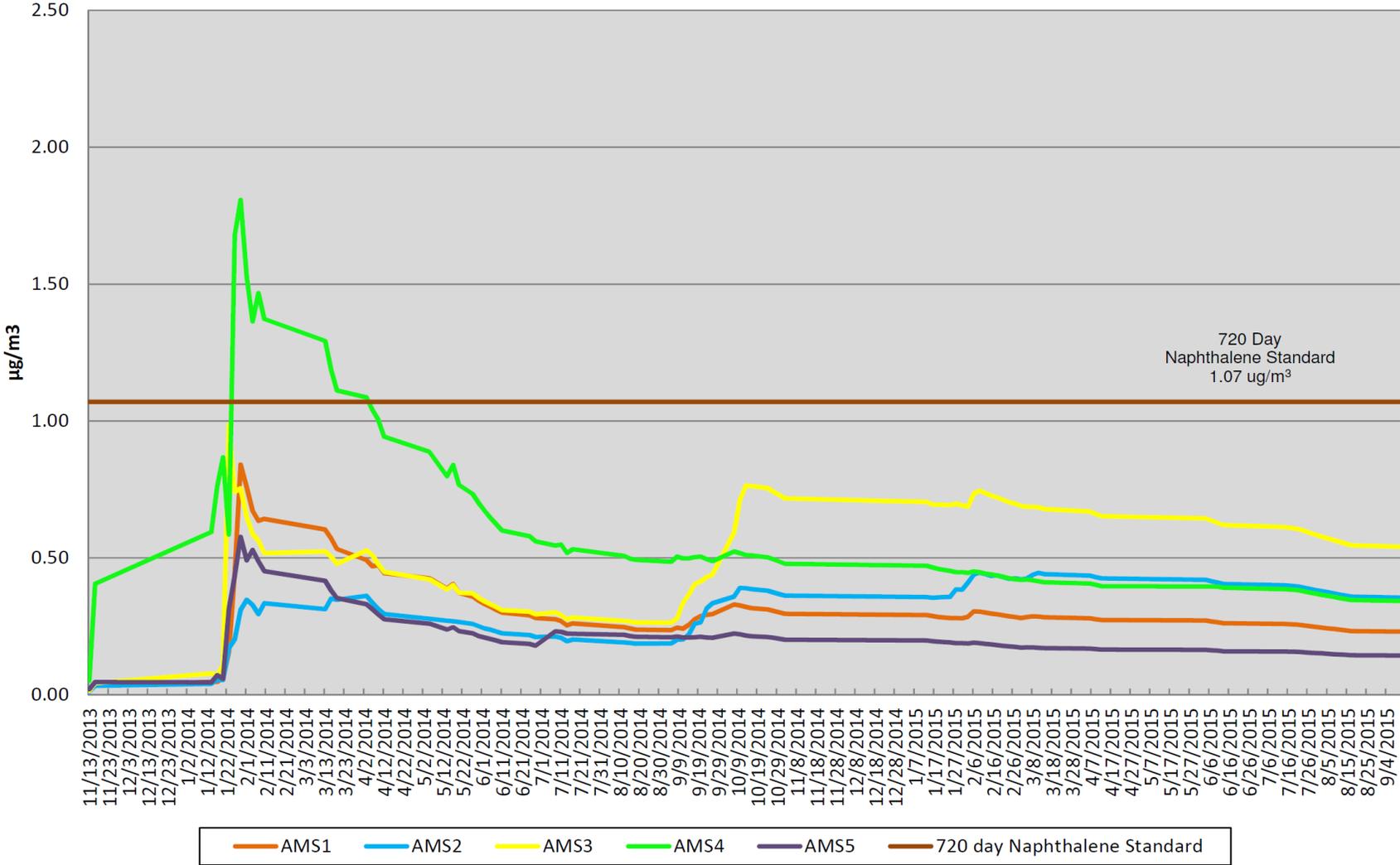


Looking south at the steel pipes running into the Canal from the berm area on 10/9/2015.

### 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

