

Mr. Ross del Rosario
USEPA Region 5 – SR6J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

February 11, 2014
2037

RE: January 2014 Monthly Progress Report
Former Crawford Station MGP Site
Chicago, Illinois
Peoples Gas Light and Coke Company

CERCLA Docket No. V-W-08-C-917 and V-W-11-C-981
CERCLIS ID – ILN0000510192

Dear Mr. del Rosario:

On behalf of Integrys Business Support, LLC (IBS), Natural Resource Technology, Inc. (NRT) is providing this Monthly Progress Report for the Former Crawford Station Manufactured Gas Plant (MGP) Site. This report encompasses the Removal Action work and the Remedial Investigation/Feasibility Study (RI/FS) activities that are being performed concurrently.

I. Time Critical Removal Action (AOC V-W-11-C-981)

1) Progress Made During the Past Month

Removal Action Area – Parcels A, B, & O

Excavation and restoration of the Removal Action Area on Parcels A, B, & O is complete. No action was taken in the month of December.

Parcel L

- Soil excavation and removal is continuing. Soils are being transported to Waste Management's Laraway RDF facilities for disposal. For January 2014, a total of 20,730 tons of soil and concrete were transported off-site for disposal. For the project, a total of 502,547 tons of soil and concrete have been excavated and transported for disposal.
- Excavation continued in Area 5S. Source material was observed at the designed depth of Area 5S (12-feet below ground surface). Therefore, a determination was made based on visual evidence to extend the excavation in the immediate area to 16-feet below ground surface (bgs). Portions of Area 5S were extended to 14ft bgs as deemed appropriate based on visual observations of source material. Excavation activities continued in Area 6E. Based on visual evidence of source material at the designed depth of 15ft bgs, the excavation was extended to 16ft bgs.
- Bed ash was delivered and used to amend specific soils from Areas 6E and 5S in order to meet landfill acceptance criteria.
- The substructure of a large (approx. 130 foot diameter) gas relief holder was encountered in Area 5S. The riveted metal lining of the former gas relief holder was removed, and demolition of the underlying concrete foundation began. The steel liner will be decontaminated and disposed of as scrap metal.



Impacted concrete will be disposed of and non-impacted concrete will be crushed and reused on site as backfill, as outlined in the Removal Action Work Plan Addendum 1 Revision 1 (RAWP).

- Backfilling of excavations has continued in several areas on Parcel L. Clean gravel obtained from Vulcan Materials in McCook, Illinois is being compacted to 95% Modified Proctor.
- Water treatment system is in operation. Metropolitan Water Reclamation District of Greater Chicago (MWRD) discharge permit has been approved. A total of 1,063,270 gallons of water were treated and discharged to the MWRD during the month of January.
- Soil samples were collected from the walls and base of the excavations at the frequency outlined in the RAWP.
- NRT provided continuous perimeter air monitoring utilizing nine Fixed Air Monitoring Stations. Full-Scale sampling was conducted with the construction activities consisting of two SUMMA and one PUF 24-hour sampling event per week. Air monitoring and sampling activities are being conducted in accordance with the RAWP.
- Work was suspended on January 2, 6-8, 21, 27 and 28 due to extreme weather (cold temperatures and/or heavy snowfall). The air monitoring program continued without interruption during these suspensions.

2) Analytical and Other Testing Results Received

Parcel L

- Full-Scale SUMMA sampling data from Parcel L is provided in tabular form as Attachment No. 1.
- The Full-Scale PUF data included as Attachment No. 2 to the previously submitted December 2013 Monthly Progress report included the data from November 2013 instead of December 2013. The data from December 2013 that was omitted is included in tabular form as Attachment No. 2 of this report, along with the PUF data from January 2014.
- Post-Excavation soil sample data received in January from Parcel L is provided in tabular form as Attachment No. 3
- Landfill Acceptance soil sample data for the Amendment Areas received in January is provided in tabular form as Attachment No. 4.

3) Project Work Next Month (January 2014)

IBS Actions

Removal Action Area – Parcels A, B, & O





- Site restoration completed. No additional removal action activities are scheduled for Parcels A, B, & O at this time.

Parcel L

- Continue Full Scale Perimeter Air Monitoring consisting of two 24-hour SUMMA sampling events and one 24-hour PUF sampling event per week.
- Conduct Continuous Real-Time Air Monitoring with the nine perimeter FAMs.
- Continue excavation and hauling of source material to Laraway Road RDF.
- Collect post-excavation soil samples from the walls and bases of excavations in accordance with sampling protocols outlined in the RAWP.

USEPA Actions

- None

4) Anticipated Schedule

Deliverable or Milestone	Target Date	Actual Date
Parcels ABO Removal		
Settlement Agreement Signed	--	October 12, 2011
Project Start Date		October 12, 2011
Monthly Progress Reports	Due the 11 th of Each Month	
Removal Action Work Plan, Rev 0 ¹		August 1, 2011
Removal Action Work Plan, Rev. 1 ¹		September 6, 2011
USEPA Approval of RAWP ¹		September 8, 2011
Removal Action (AB&O) – Start Date	November 2011	January 31, 2012
Removal Action (AB&O) – Completion Date	October 2013	October 2013
Parcel L Removal		
RAWP Addendum #1		August 15, 2012
USEPA Comments on RAWP Add #1		September 19, 2012
RAWP Add #1, Rev. #1		October 19, 2012
USEPA Approval of RAWP Addendum		November 1, 2012
Site-Specific Soil Attenuation Capacity Determination		November 29, 2013
Site-Specific Soil Attenuation Capacity Determination – USEPA Approval		December 3, 2013
Removal Action (L) – Start Date		January 24, 2013
Removal Action (L) – Completion Date	Summer 2014	
¹ Removal Action Work Plan documents were prepared pursuant to AOC V-W-08-C-917		

5) Problems or Potential Problems Encountered

- None





6) Actual or Planned Resolution of Problems or Potential Problems

- None

II. RI/FS Activities (AOC V-W-08-C-917)

1) Progress Made During the Past Month

- Remedial Investigation work is underway on the Group I Parcels as outlined in the SSWP Revision 1, dated October 19, 2012.
- Access agreements have been obtained for Parcels Q and U (ComEd); and Parcel P (American National Bank & Trust). The High Risk Evaluation (HRE) plan for work on the ComEd substation has been updated and approved by ComEd. Investigation of the ComEd parcels is delayed pending ComEd availability to have a spotter on site.
- RI field activities have been conducted on Parcels K, O, P, A and B. Activities included soil probing, soil sample collection, monitoring well installation/development, and groundwater sample collection. Parcels Q and U have not been completed at this time but have been scheduled to begin in February 2014 pending ComEd oversight personnel availability.
- Revision 1 for the SSWP for Group II Parcels and Response to Comments was prepared and submitted to USEPA on September 6, 2013. IEPA's comments on the Rev. 1 document were received via email on November 5, 2013. A response to USEPA's comments and minor updates to the SSWP were submitted on January 10, 2014.
- Baseline Groundwater Monitoring Well sampling began on January 30, 2014. Groundwater samples have been submitted to Pace Analytical Services, Inc. for analysis as detailed in the SSWP Rev 1.

2) Analytical and Other Testing Results Received

- None

3) Project Work Next Month

IBS Actions

- The RI for Group I parcels will continue.

USEPA Actions

- Review the SSWP Addendum 1, Revision 1a and Response to the IEPA Comments for Group 2 submitted on January 10, 2014.

4) Anticipated Schedule

Deliverable or Milestone	Target Date	Actual Date
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Deliverable or Milestone	Target Date	Actual Date
Settlement Agreement Signed	--	October 31, 2008
Project Start Date		December 15, 2011
Monthly Progress Reports	Due the 14 th of Each Month	
Completion Report , Rev. 0	December 15, 2011	December 23, 2012
Pre-Site Specific Scoping Meeting	January 24, 2012	January 24, 2012
Site Specific Work Plan, Rev. 0	March 14, 2012	March 14, 2012
Receive USEPA Comments on SSWP, Rev. 0	May 14, 2012	May 22, 2012
Site Specific Work Plan, Rev. 1	August 5, 2012	August 6, 2012
USEPA Comments on Rev. 1	September 6, 2012	September 4, 2012
Response to Comments, SSWP, Rev. 1	October 19, 2012	October 19, 2012
USEPA Approves SSWP, Rev. 1	November 19, 2012	December 5, 2012
SSWP Addendum #1 (Group II Parcels)	April 5, 2013	April 5, 2013
USEPA/IEPA Comments, SSWP Group II, Rev. 0	May 20, 2013	July 11, 2013
Response to Comments SSWP Group II	September 6, 2013	September 6, 2013
USEPA Comments, SSWP Group II, Rev 1		November 5, 2013
RI/FS (Parcel Group I)	December, 2012 to Sept. 2014	

5) Problems or Potential Problems Encountered

- None.

6) Actual or Planned Resolution of Problems or Potential Problems

- None.

Please contact Mr. Naren Prasad of IBS at 312.240.4569 if you should have any questions regarding the content of this progress report.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.



John M. Nardozzi, PE
 Principal Engineer



Timothy B. Norris, PG
 Geologist



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Attachments:

- Attachment No. 1 – Full Scale SUMMA Air Sampling Data – Parcel L
- Attachment No. 2 – Full Scale PUF Air Sampling Data – Parcel L
- Attachment No. 3 – Post-Excavation Soil Sample Analytical – Parcel L
- Attachment No. 4 – Post-Excavation Amendment Soil Sample Analytical – Parcel L

cc: Mr. Doyle Wilson, IEPA (via email)
Mr. Naren Prasad, Integrys (via email)
Mr. Chris Szela, Integrys (via email)
Mr. David Klatt, CH2M Hill (via email)
Ms. Jennifer Hagen, NRT



Attachment No. 1
Full Scale Air Monitoring - SUMMA Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	12/19/2013 131219001 FAM01	12/19/2013 131219002 FAM02	12/19/2013 131219003 FAM04	12/19/2013 131219004 FAM05	12/19/2013 131219005 FAM09	12/30/2013 131230001 FAM02	12/30/2013 131230002 FAM03	12/30/2013 131230003 FAM04	12/30/2013 131230004 FAM06	12/30/2013 131230005 FAM08
Benzene	3.3	2.5	11	NA	4.1	1.8	1.7	NA	NA	1.2
Ethylbenzene	2.4	1.3	15	NA	3.8	1.6	0.70 J	NA	NA	0.28 J
Toluene	5.7	5.3	7.3	NA	6.5	1.8	2.0	NA	NA	1.4
Xylene (total)	6.1	3.9	15	NA	8.0	2.9	1.6	NA	NA	1.0
Naphthalene	1.1 U	1.5 J	7.4	NA	6.2	1.2 U *	1.2 U *	NA	NA	1.2 U *

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-15.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) J - Result is an estimated value.
- 4) NA - Sample was not analyzed because field measurements and laboratory checks indicated the flow controller became obstructed during collection or the final pressure reading indicated the cannister was at ambient pressure.
- 5) * - Recovery or Relative Percent Difference exceeds control limits.

Attachment No. 1
Full Scale Air Monitoring - SUMMA Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	1/2/2014 140102001 FAM02	1/2/2014 140102002 FAM03	1/2/2014 140102003 FAM06	1/2/2014 140102004 FAM07	1/2/2014 140102005 FAM08	1/8/2014 140108001 FAM02	1/8/2014 140108002 FAM04	1/8/2014 140108003 FAM05	1/8/2014 140108004 FAM08	1/8/2014 140108005 FAM09
Benzene	0.98	0.069 U	0.76	NA	0.47 J	2.4	1.0	2.9	2.4	2.3
Ethylbenzene	0.064 U	0.064 U	0.23 J	NA	0.064 U	1.4	0.44 J	1.9	1.3	1.3
Toluene	0.90	0.073 U	0.95	NA	0.25 J	4.1	1.0	4.8	4.4	4.4
Xylene (total)	0.17 U	0.17 U	0.69 J	NA	0.17 U	4.1	0.91 J	4.2	3.4	3.6
Naphthalene	1.2 U	1.2 U	1.2 U	NA	1.2 U					

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-15.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) J - Result is an estimated value.
- 4) NA - Sample was not analyzed because field measurements and laboratory checks indicated the flow controller became obstructed during collection or the final pressure reading indicated the cannister was at ambient pressure.
- 5) * - Recovery or Relative Percent Difference exceeds control limits.

Attachment No. 1
Full Scale Air Monitoring - SUMMA Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	1/9/2014 140109001 FAM03	1/9/2014 140109002 FAM04	1/9/2014 140109003 FAM07	1/9/2014 140109004 FAM08	1/9/2014 140109005 FAM09	1/12/2014 140112001 FAM01	1/12/2014 140112002 FAM02	1/12/2014 140112003 FAM04	1/12/2014 140112004 FAM05	1/12/2014 140112005 FAM09
Benzene	1.4	1.5	0.070 U	1.4	1.3	3.4	NA	1.2	0.90	1.3
Ethylbenzene	0.065 U	0.47 J	0.065 U	0.60 J	0.45 J	14	NA	0.66 J	0.06 U	0.22 J
Toluene	0.73 J	2.3	0.07 U	2.5	2.2	16	NA	1.4	1.1	1.7
Xylene (total)	0.17 U	1.5	0.17 U	1.9	1.2	29	NA	1.4	0.70 J	0.23 J
Naphthalene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.6 J *	NA	1.4 J *	1.1 U *	1.9 J *

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-15.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) J - Result is an estimated value.
- 4) NA - Sample was not analyzed because field measurements and laboratory checks indicated the flow controller became obstructed during collection or the final pressure reading indicated the cannister was at ambient pressure.
- 5) * - Recovery or Relative Percent Difference exceeds control limits.

Attachment No. 1
Full Scale Air Monitoring - SUMMA Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)				
	1/13/2014 140113001 FAM02	1/13/2014 140113002 FAM03	1/13/2014 140113003 FAM04	1/13/2014 140113004 FAM07	1/13/2014 140113005 FAM09
Benzene	NA	1.4	1.2	0.92	0.99
Ethylbenzene	NA	1.1	0.74 J	0.29 J	0.30 J
Toluene	NA	1.6	1.4	1.3	1.2
Xylene (total)	NA	1.8	1.4	1.1	1.0
Naphthalene	NA	1.1 U *	1.1 U *	1.1 U *	1.8 J *

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-15.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) J - Result is an estimated value.
- 4) NA - Sample was not analyzed because field measurements and laboratory checks indicated the flow controller became obstructed during collection or the final pressure reading indicated the cannister was at ambient pressure.
- 5) * - Recovery or Relative Percent Difference exceeds control limits.

Attachment No. 2
Full Scale Air Monitoring - PUF Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
 ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	11/25/2013 131125006 FAM01	11/25/2013 131125007 FAM02	11/25/2013 131125008 FAM03	11/25/2013 131125009 FAM05	11/25/2013 131125010 FAM07	12/3/2013 131203006 FAM01	12/3/2013 131203007 FAM02	12/3/2013 131203008 FAM04	12/3/2013 131203009 FAM06	12/3/2013 131203010 FAM07
Benzo[a]anthracene	0.0017 U	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0019 U	0.0018 U	0.0022 U	0.0018 U
Benzo[a]pyrene	0.0016 U	0.0017 U	0.0016 U	0.0017 U	0.0015 U	0.0016 U	0.0017 U	0.0017 U	0.0020 U	0.0016 U
Benzo[b]fluoranthene	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0021 U	0.0023 U	0.0025 U	0.0024 U	0.0029 U	0.0023 U
Benzo[k]fluoranthene	0.0018 U	0.0019 U	0.0018 U	0.0019 U	0.0017 U	0.0019 U	0.0020 U	0.0019 U	0.0023 U	0.0018 U
Chrysene	0.0024 J	0.0024 U	0.0023 U	0.0023 U	0.0021 U	0.0023 U	0.0025 U	0.0024 U	0.0029 U	0.0023 U
Dibenz(a,h)anthracene	0.0022 U	0.0023 U	0.0022 U	0.0023 U	0.0021 U	0.0023 U	0.0024 U	0.0023 U	0.0028 U	0.0022 U
Indeno[1,2,3-cd]pyrene	0.0021 U	0.0022 U	0.0021 U	0.0022 U	0.0020 U	0.0021 U	0.0023 U	0.0022 U	0.0027 U	0.0021 U

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-13A.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) NA - Not analyzed.

Attachment No. 2
Full Scale Air Monitoring - PUF Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
 ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	12/9/2013 131209007 FAM02	12/9/2013 131209008 FAM03	12/9/2013 131209009 FAM04	12/9/2013 131209010 FAM07	12/9/2013 131209011 FAM09	12/19/2013 131219006 FAM01	12/19/2013 131219007 FAM02	12/19/2013 131219008 FAM04	12/19/2013 131219009 FAM05	12/19/2013 131219010 FAM09
Benzo[a]anthracene	0.0018 U	0.0017 U	0.0017 U	0.0016 U	0.0018 U	0.0018 U	0.0019 U	0.0018 U	0.0019 U	0.0019 U
Benzo[a]pyrene	0.0016 U	0.0016 U	0.0016 U	0.0015 U	0.0016 U	0.0016 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
Benzo[b]fluoranthene	0.0023 U	0.0022 U	0.0022 U	0.0021 U	0.0023 U	0.0023 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Benzo[k]fluoranthene	0.0019 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U	0.0020 U	0.0019 U	0.0020 U	0.0019 U
Chrysene	0.0023 U	0.0022 U	0.0022 U	0.0021 U	0.0023 U	0.0023 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Dibenz(a,h)anthracene	0.0023 U	0.0022 U	0.0022 U	0.0020 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Indeno[1,2,3-cd]pyrene	0.0021 U	0.0020 U	0.0021 U	0.0019 U	0.0021 U	0.0021 U	0.0023 U	0.0022 U	0.0022 U	0.0022 U

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-13A.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) NA - Not analyzed.

Attachment No. 2
Full Scale Air Monitoring - PUF Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
 ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)									
	1/2/2014 140102007 FAM02	1/2/2014 140102008 FAM03	1/2/2014 140102009 FAM06	1/2/2014 140102010 FAM07	1/2/2014 140102011 FAM08	1/8/2014 140108006 FAM02	1/8/2014 140108007 FAM04	1/8/2014 140108008 FAM05	1/8/2014 140108009 FAM08	1/8/2014 140108010 FAM09
Benzo[a]anthracene	0.0017 U	0.0017 U	0.0021 U	0.0016 U	0.0018 U	0.0017 U	0.0017 U	0.0017 U	0.0018 U	NA
Benzo[a]pyrene	0.0016 U	0.0016 U	0.0019 U	0.0014 U	0.0017 U	0.0015 U	0.0015 U	0.0016 U	0.0017 U	NA
Benzo[b]fluoranthene	0.0022 U	0.0022 U	0.0027 U	0.0020 U	0.0024 U	0.0022 U	0.0022 U	0.0022 U	0.0024 U	NA
Benzo[k]fluoranthene	0.0018 U	0.0018 U	0.0022 U	0.0016 U	0.0019 U	0.0018 U	0.0017 U	0.0018 U	0.0019 U	NA
Chrysene	0.0022 U	0.0022 U	0.0027 U	0.0020 U	0.0024 U	0.0022 U	0.0022 U	0.0022 U	0.0024 U	NA
Dibenz(a,h)anthracene	0.0022 U	0.0022 U	0.0026 U	0.0020 U	0.0023 U	0.0021 U	0.0021 U	0.0022 U	0.0023 U	NA
Indeno[1,2,3-cd]pyrene	0.0021 U	0.0021 U	0.0025 U	0.0019 U	0.0022 U	0.0020 U	0.0020 U	0.0021 U	0.0022 U	NA

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-13A.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) NA - Not analyzed.

Attachment No. 2
Full Scale Air Monitoring - PUF Samples
Former Crawford Station MGP Site - Parcel L, Chicago, IL
Peoples Gas Light and Coke Company
 ILN0000510192

Analyte	Sample Date/Sample ID/Station ID/Concentration (µg/m3)				
	1/15/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014
	140115001 FAM01	140115002 FAM03	140115003 FAM04	140115004 FAM05	140115005 FAM08
Benzo[a]anthracene	0.0017 U	0.0017 U	0.0017 U	0.0018 U	0.0019 U
Benzo[a]pyrene	0.0015 U	0.0016 U	0.0016 U	0.0016 U	0.0017 U
Benzo[b]fluoranthene	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0024 U
Benzo[k]fluoranthene	0.0018 U	0.0018 U	0.0018 U	0.0019 U	0.0020 U
Chrysene	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0024 U
Dibenz(a,h)anthracene	0.0021 U	0.0022 U	0.0022 U	0.0023 U	0.0024 U
Indeno[1,2,3-cd]pyrene	0.0020 U	0.0021 U	0.0021 U	0.0021 U	0.0023 U

Notes:

- 1) Sampling and analysis was conducted in accordance with EPA method TO-13A.
- 2) U - Analyte was not detected. The associated value is the detection limit.
- 3) NA - Not analyzed.

Attachment No. 3
Post Excavation Soil Samples
Former Crawford Station MGP Site, Chicago, Illinois
Peoples Gas Light and Coke Company
 ILN0000510192

Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Constituent/Screening Level/Result [miligram per kilogram (mg/kg)]									
						1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,4-Dimethylphenol	2-Methylnaphthalene	2-Methylphenol	3 & 4 Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzene
						146	70.6	4678	--	--	--	--	--	--	870
2037 Crawford	140114001	L-EB-127	14	1/14/2014	Y	3.0	0.90	< 0.72	31	< 0.30	< 0.31	1.2	5.6	4.9	0.21
2037 Crawford	140114002	L-EB-128	14	1/14/2014	Y	0.023 J	< 0.0099	< 0.15	0.21	< 0.063	< 0.066	0.083	0.035 J	0.057	0.012
2037 Crawford	140114003	L-EB-129	16	1/14/2014	Y	0.056 J	< 0.012	< 0.14	0.18	< 0.059	< 0.061	0.021 J	0.019 J	0.019 J	0.16
2037 Crawford	140114004	L-EB-130	16	1/14/2014	Y	0.062 J	< 0.013	< 0.76	4.7	< 0.32	< 0.33	2.3	0.53	1.3	0.013 J

- Notes:
- 1) ft bgs - feet below ground surface
 - 2) -- - No screening level for this analyte.
 - 3) J - Result is an estimated value.
 - 4) * - Lab control sample or lab control sample duplicate exceeds the control limits
 - 5) † - Total Petroleum Hydrocarbons (TPH) is the sum of Diesel Range Organics and Gasoline Range Organics. If either parameter was not detected, half of the detection limit was used for the sum.
 - 6) V - Serial Dilution exceeded the control limits.
 - 7) B - Compound was found in the blank and sample.
 - 8) NA - Not Analyzed
 - 9) ^ - Instrument related QC exceeds the control limits.

Attachment No. 3
Post Excavation Soil Samples
Former Crawford Station MGP Site, Chicago, Illinois
Peoples Gas Light and Coke Company
 ILN0000510192

Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Constituent/Screening Level/Result (mg/kg)									
						Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Ethylbenzene
						--	--	--	--	--	--	--	--	--	400
2037 Crawford	140114001	L-EB-127	14	1/14/2014	Y	2.1	1.2	0.85	0.43	0.33	< 0.49	2.0	0.15 J	0.79 J	0.54
2037 Crawford	140114002	L-EB-128	14	1/14/2014	Y	0.052	0.039	< 0.0085	< 0.013	< 0.012	< 0.10	0.082	< 0.0076	< 0.046	0.025
2037 Crawford	140114003	L-EB-129	16	1/14/2014	Y	0.0095 J	0.010 J	0.015 J	0.025 J	< 0.011	< 0.094	0.036	0.0089 J	< 0.043	0.029
2037 Crawford	140114004	L-EB-130	16	1/14/2014	Y	0.89	0.74	0.55	0.41	0.20	< 0.51	1.0	0.084 J	< 0.23	0.048

- Notes:
- 1) ft bgs - feet below ground surface
 - 2) -- - No screening level for this analyte.
 - 3) J - Result is an estimated value.
 - 4) * - Lab control sample or lab control sample duplicate exceeds the control limits
 - 5) † - Total Petroleum Hydrocarbons (TPH) is the sum of Diesel Range Organics and Gasoline Range Organics. If either parameter was not detected, half of the detection limit was used for the sum.
 - 6) V - Serial Dilution exceeded the control limits.
 - 7) B - Compound was found in the blank and sample.
 - 8) NA - Not Analyzed
 - 9) ^ - Instrument related QC exceeds the control limits.

Attachment No. 3
Post Excavation Soil Samples
Former Crawford Station MGP Site, Chicago, Illinois
Peoples Gas Light and Coke Company
 ILN0000510192

Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Constituent/Screening Level/Result (mg/kg)									
						Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	m&p-Xylene	Naphthalene	o-Xylene	Phenanthrene	Phenol	Pyrene	Toluene
						--	--	--	--	--	--	--	--	--	650
2037 Crawford	140114001	L-EB-127	14	1/14/2014	Y	4.2	8.4	0.34	2.8	38	1.1	20	< 0.42	5.8	1.4
2037 Crawford	140114002	L-EB-128	14	1/14/2014	Y	0.077	0.038 J	< 0.010	0.018 J	0.28	0.013	0.26	< 0.088	0.16	0.0066 J
2037 Crawford	140114003	L-EB-129	16	1/14/2014	Y	0.026 J	0.016 J	0.012 J	0.044	0.77	0.025	0.13	< 0.081	0.046	0.061
2037 Crawford	140114004	L-EB-130	16	1/14/2014	Y	1.7	1.7	0.20	0.026 J	6.8	0.022	5.0	< 0.44	3.0	< 0.0072

- Notes:
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 - 5) † - Total Petroleum Hydrocarbons (TPH) is the sum of Diesel Range Organics and Gasoline Range Organics. If either parameter was not detected, half of the detection limit was used for the sum.
 - 6) V - Serial Dilution exceeded the control limits.
 - 7) B - Compound was found in the blank and sample.
 - 8) NA - Not Analyzed
 - 9) ^ - Instrument related QC exceeds the control limits.

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Former Crawford Station MGP Site, Chicago, Illinois
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Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Constituent/Screening Level/Result (mg/kg)									
						Xylenes, Total	Diesel Range Organics [C10-C28]	Gasoline Range Organics (C6-C9)	Total Petroleum Hydrocarbons†	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium
						320	--	--	7858	--	--	--	--	--	--
2037 Crawford	140114001	L-EB-127	14	1/14/2014	Y	3.9	730	37	767	11000 B	0.85 J	6.6	35	0.22	19
2037 Crawford	140114002	L-EB-128	14	1/14/2014	Y	0.031	260	5.1	265.1	9200 B	< 0.96	9.2	31	0.20 J	16
2037 Crawford	140114003	L-EB-129	16	1/14/2014	Y	0.069	260	15	275	9500 B	< 0.81	9.8	36	0.23	17
2037 Crawford	140114004	L-EB-130	16	1/14/2014	Y	0.048	270	5.3	275.3	11000 B	< 0.88	7.9	46	0.22	19

- Notes:
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 - 3) J - Result is an estimated value.
 - 4) * - Lab control sample or lab control sample duplicate exceeds the control limits
 - 5) † - Total Petroleum Hydrocarbons (TPH) is the sum of Diesel Range Organics and Gasoline Range Organics. If either parameter was not detected, half of the detection limit was used for the sum.
 - 6) V - Serial Dilution exceeded the control limits.
 - 7) B - Compound was found in the blank and sample.
 - 8) NA - Not Analyzed
 - 9) ^ - Instrument related QC exceeds the control limits.

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Post Excavation Soil Samples
Former Crawford Station MGP Site, Chicago, Illinois
Peoples Gas Light and Coke Company
 ILN0000510192

Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Constituent/Screening Level/Result (mg/kg)											
						Copper	Cyanide, Total	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
						--	--	--	--	--	--	--	--	--	--	--	--
2037 Crawford	140114001	L-EB-127	14	1/14/2014	Y	25	< 0.19	21000	14	350	0.034	33	0.84 J	< 0.037	< 0.43	22	68 B
2037 Crawford	140114002	L-EB-128	14	1/14/2014	Y	29	< 0.16	20000	16	350	0.032	33	0.44 J	< 0.043	< 0.50	20	54 B
2037 Crawford	140114003	L-EB-129	16	1/14/2014	Y	28	< 0.18	20000	18	350	0.028	36	0.69 J	< 0.036	0.55 J	20	61 B
2037 Crawford	140114004	L-EB-130	16	1/14/2014	Y	24	< 0.21	21000	15	350	0.030	33	0.75 J	< 0.040	< 0.46	22	57 B

- Notes:
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 - 2) -- - No screening level for this analyte.
 - 3) J - Result is an estimated value.
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 - 5) † - Total Petroleum Hydrocarbons (TPH) is the sum of Diesel Range Organics and Gasoline Range Organics. If either parameter was not detected, half of the detection limit was used for the sum.
 - 6) V - Serial Dilution exceeded the control limits.
 - 7) B - Compound was found in the blank and sample.
 - 8) NA - Not Analyzed
 - 9) ^ - Instrument related QC exceeds the control limits.

Attachment No. 4
Post-Excavation Amendment Soil Samples
Former Crawford Station MGP Site, Chicago, Illinois
Peoples Gas Light and Coke Company
 ILN0000510192

Client Project	Sample ID	Sample Location	Sample Depth (ft bgs)	Date Collected	Below Post-Excavation Sampling Criteria	Benzene
						10
2037 Crawford	140103001	L-PST-9	---	1/3/2014	Y	2.1
2037 Crawford	140103002	L-PST-10	---	1/3/2014	Y	2.9
2037 Crawford	140108012	L-PST-11	---	1/8/2014	Y	2.0
2037 Crawford	140108013	L-PST-12	---	1/8/2014	Y	3.5
2037 Crawford	140108014	L-PST-13	---	1/8/2014	Y	0.96
2037 Crawford	140108015	L-PST-14	---	1/8/2014	Y	1.5

Notes:

1) mg/kg - milligrams per kilogram