

Memorandum

To: Mr. Derek Kannenberg,
North Dakota Department of Health

Date: March 1, 2019

From: Kurt Herman, Gradient

Subject: Remedy Completion Memorandum, Former Heartland Apartments Property, Fargo MGP Site, Fargo, North Dakota

The objective of this memorandum is to document the outcome of the remedial actions undertaken at the former Heartland Apartments property (Heartland Property), located at 11 12th Street North, to address impacts associated with the Fargo Manufactured Gas Plant (MGP) Site. As discussed below and in the Barr Technical Memorandum, the remedial actions at the Heartland Property were completed in two phases: (1) portions of the southern parking lot were excavated as part of exploratory investigations in 2016, and (2) the buildings/structures on the property were demolished and the entire property¹ was excavated to 5-15 feet below ground surface (ft bgs) in 2018. The work conducted in 2016 was completed in accordance with a North Dakota Department of Health (NDDH)-approved Remedial Action Work Plan (RAWP; Barr, 2016a²) and previously reported in a technical memorandum to NDDH (Barr, 2016b³). The 2018 work was completed in accordance with the NDDH-approved RAWP (Barr, 2017⁴) and Remedial Investigation/Focused Feasibility Study (RI/FFS; Gradient, 2016a⁵). Following approval of the RAWP by NDDH, Northern States Power Company (NSP) purchased the Heartland Property, as required by the property owners as a condition of access to perform the remediation and as planned for in the RAWP and the NDDH RAWP approval letter (Barr, 2017, p. 3⁴; NDDH, 2017a⁶). NSP ownership of the property facilitated remediation efforts and allowed for implementation of a more protective and cost-effective remedy, as acknowledged by NDDH (2017a⁶). Active remediation has been completed; monitoring will continue pursuant to the Site-Specific Long-Term Monitoring (LTM) plan (Gradient, 2017⁷) and may be amended from time to time with approval from NDDH.⁸

¹ With the exception of some sidewalls at the perimeter of the property where utilities were present.

² Barr Engineering Co. (Barr). 2016a. Letter to C. Erickson (North Dakota Dept. of Health [NDDOH]) from R. Heimbach and M. Sands (Barr Engineering Co.) re: Former Fargo MGP Site - Draft 12th Street Sewer Corridor Excavation and Pipe Grouting Work Plan. 5p., July 18.

³ Barr Engineering Co. (Barr). 2016b. Technical Memorandum to A. Peterson (Northern State Power Co.) re: Heartland Apartments Property Test Pits and MGP Pipe Grouting. 100p., November 16.

⁴ Barr Engineering Co. (Barr). 2017. "Remedial Action Work Plan – Fargo MGP Site, Heartland Apartments Property." Report to Northern States Power Co. June 23.

⁵ Gradient. 2016a. "Remedial Investigation and Focused Feasibility Study, Fargo Manufactured Gas Plant (MGP) and Vicinity, Fargo, Cass County, North Dakota." Report to Northern States Power Co. 1361p., November 29.

⁶ North Dakota Dept. of Health (NDDH). 2017a. Letter to P. Flowers (Xcel Energy) from C.L. Erickson (North Dakota Dept. of Health [NDDOH]) [re: Approval of Fargo MGP Site, Remedial Action Work Plan, Heartland Apartments Property, dated June 23, 2017]. 1p., July 28.

⁷ Gradient. 2017. "Long-term Monitoring Plan, Fargo Manufactured Gas Plant (MGP) and Vicinity, Fargo, Cass County, North Dakota." Report to Northern States Power Co. 25p., March.

⁸ A proposed modification to the LTM plan, i.e., the abandonment of all except one well north of the United Refrigeration, Inc. (URI) Property, was presented to and approved by NDDH in March 2018. Additional revisions to the LTM plan may be needed in the future.

1 Background

1.1 Remedial Investigation

The former MGP operated from approximately 1885-1960 on the north side of Northern Pacific (NP) Avenue between 11th Street North and North University Drive. NSP completed a multi-media environmental site assessment of the Fargo MGP Site and adjoining properties, including the Heartland Property, in accordance with NDDH-approved work plans (see Gradient, 2016a⁵). Consistent with NDDH requirements for Phase I and Phase II environmental investigations (North Dakota Century Code §23-20.03), the horizontal and vertical extents of MGP-related impacts to soil and groundwater were sufficiently delineated, receptors were identified and evaluated, the nature of the contaminants of concern were characterized, past and current Site uses were evaluated, and the Site hydrogeology and water use were adequately defined at the Heartland Property (Gradient, 2016a⁵; NDDH, 2017b⁹).

1.2 Interim Remedial Action

As described in the Barr Technical Memorandum, an interim remedial action was conducted at the Heartland Property prior to completion of the RI/FFS (Gradient, 2016a⁵). In June and July 2016, excavations and utility (storm sewer) corridor excavations in the alley south of the URI Property, 12th Street North, and the Heartland Property parking lot led to the identification of one 4-inch and two 12-inch MGP pipes, removal and/or grouting of the MGP pipes, and removal of impacted soil followed by replacement with clean fill. Additional details of the investigation and interim remedial action are provided in the RI/FFS (Gradient, 2016a⁵).

1.3 Risk Evaluation

A human health risk evaluation was performed as part of the RI/FFS (Gradient, 2016a⁵). The risk evaluation concluded that there are no unacceptable risks to human health based on current conditions for the Heartland Property, based on the available data. However, the risk assessment identified elevated risks associated with future potential exposures to impacted soil and groundwater for both a Construction Worker and a Utility Worker at the Heartland Property. In addition, the risk evaluation for the vapor intrusion pathway was considered preliminary, because it was based on a limited dataset consisting of only 16 samples from 14 locations (Gradient, 2016b¹⁰). Completing the vapor intrusion risk evaluation would have required the collection of additional samples, which would have been an intrusive, costly, and logistically challenging undertaking. Further, access was denied when requested from the former property owners. Thus, pre-emptive mitigation using a sub-slab depressurization system was selected as a more protective, less disruptive, and cost-effective approach that was consistent with United States Environmental Protection Agency (US EPA) guidance (Gradient, 2016b¹⁰). However, access to install a full pre-emptive mitigation system was also denied by the former property owners.

⁹ North Dakota Dept. of Health (NDDH). 2017b. Letter to M. Nisbet (Xcel Energy - North Dakota) and T. Coss (Xcel Energy) from C. Erickson (North Dakota Dept. of Health [NDDOH]) re: RI/FFS Report, Fargo MGP. 2p., January 20.

¹⁰ Gradient. 2016b. "Preliminary Evaluation of the Vapor Intrusion Pathway and Comparative Analysis of Alternatives, Heartland Apartments Property, Fargo Former MGP Site, Fargo, Cass County, North Dakota." Report to Northern States Power Co. 55p., April 1.

1.4 Risk-Based Cleanup Goals

As part of the RI/FFS (Gradient, 2016a⁵), risk-based cleanup goals (CUGs) were developed for risk-driving MGP constituents of concern. Risk-drivers were defined as any compound that contributed significantly (*i.e.*, individual hazard index [HI] of >0.5 or cancer risk of $>10^{-5}$) to an exceedance of the US EPA target risk range (HI of 1 or cancer risk of 10^{-6} to 10^{-4}) for a particular receptor and exposure pathway. For each risk-driver, a post-remediation target of the 95% upper confidence limit on the mean (UCLM) concentration was identified that would achieve an individual compound HI of <0.5 and a cancer risk of $\leq 10^{-6}$. This target 95% UCLM is the CUG that is to be achieved on average.

The CUG for each contaminant represents an average over the exposure area. Sampling data for each property comprising the Site and its vicinity show that there is a distribution of many different concentrations of each constituent (*i.e.*, a "data distribution"). To ensure that the CUG is met on average, a Not-to-Exceed (NTE) value was also determined for each risk-driving chemical. These NTE values represent upper-end values of the data distribution that will satisfy the requirement that CUGs are met on average. These NTE values were used to design targeted remediation areas by comparing the NTE value to individual sampling results (which cannot be done using a CUG that is based on some type of average). See Gradient (2016a⁵) for further details.

1.5 Focused Feasibility Study

A detailed analysis of remediation alternatives was performed in the FFS. This analysis concluded that Targeted Source Removal was the preferred remedial approach for the Heartland Property. The selected remedy included the following elements:

- Excavation and proper disposal of non-aqueous phase liquids (NAPL), impacted soils, former MGP structures, and debris;
- Removal and/or grouting of pipes;
- Replacement of the upper soil column and restoration of surface cover over all accessible portions of the property; and
- Installation of a vapor mitigation system (per Gradient, 2016b¹⁰), which was later substituted with demolition of the existing buildings and targeted removal of soils under the footprint of the buildings (Barr, 2017, p. 3⁴).

The FFS additionally noted that if the existing buildings could be removed, the extent of excavation would be expanded to include areas underneath the building footprints, and a vapor mitigation system would be required for any future occupied buildings unless otherwise approved by NDDH (Gradient, 2016a, p. 57⁵). As discussed in the FFS, the use of institutional and engineering controls would be appropriate for the long-term management of any residual risks at the Heartland Property.

NDDH approved the RI, risk evaluation, and FFS as the basis for remedial action on January 20, 2017 (NDDH, 2017b⁹).

1.6 Long-Term Monitoring Plan

A Site-wide monitoring program is underway to assess the stability and attenuation of impacts during and after remedy implementation. An LTM plan was approved by NDDH on March 28, 2017 (NDDH, 2017c¹¹) and may be amended from time to time with approval from NDDH.

1.7 Remedial Action Work Plan

A RAWP (Barr, 2017⁴) specific to the Heartland Property was approved by NDDH to address environmental impacts related to historical Site activities. The RAWP was submitted prior to NSP ownership of the property, but included plans for demolition of the existing buildings and an expanded excavation extent upon a change in property ownership to NSP, given that the former property owners would not grant access to NSP to perform the remediation without the sale of the property (Barr, 2017, p. 3, Figure 3⁴). NDDH approved the RAWP on July 28, 2017, noting that addressing impacts underneath the buildings' footprint would be a more protective remedy and might eliminate the need for a future vapor mitigation system (NDDH, 2017a⁶).

1.8 Property Transfer and Building Demolition

NSP secured ownership of the Heartland Property in May of 2018 after receiving NDDH approval for the RI/FFS and the RAWP. As noted in the RI/FFS (Gradient, 2016a, p. 57⁵), the RAWP (Barr, 2017, p. 3, Figure 3⁴), and the NDDH approval letter (NDDH, 2017a⁶), NSP's ownership of the property allowed for demolition of the buildings on the property, which led to the implementation of a more protective, implementable, and effective remedial action, as defined under the framework for evaluating remedial alternatives outlined in the National Contingency Plan (NCP; 40 CFR § 300.430[e][9]).

Demolition of the buildings on the property allowed for excavation of a greater volume of impacted soil and replacement with clean fill across the entire property to depths of 5-15 ft bgs, with the exception of some sidewalls at the perimeter of the property where utilities were present, rather than being limited to accessible areas, leading to an overall more protective remedy. Additionally, removing the buildings improved the implementability of the remedy, because undermining building foundations was no longer a concern.

The NCP outlines three primary balancing criteria to evaluate overall effectiveness (40 CFR § 300.430[f][1][ii][D]):

- Long-term effectiveness;
- Reduction of toxicity, mobility, or volume; and
- Short-term effectiveness.

The expanded excavation footprint enabled by NSP ownership of the property and demolition of the buildings improves long-term effectiveness and permanence by reducing the magnitude of the residual risk, because additional MGP source material located in the building footprint could be removed. NSP ownership of the property also facilitates implementing appropriate institutional and engineering controls

¹¹ North Dakota Dept. of Health (NDDH). 2017c. Letter to T. Coss (Xcel Energy) from C.L. Erickson (North Dakota Dept. of Health [NDDOH]) [re: Approval of Long-term Monitoring Plan, Fargo Manufactured Gas Plant (MGP) and Vicinity, Fargo, Cass County, North Dakota]. 1p., March 28.

to reduce long-term exposure to residual risks, because negotiations with a third-party property owner are no longer required. Expanding the excavation footprint reduced the volume of source material and impacted media present in the subsurface, including removing potentially mobile material from the subsurface. NSP ownership of the property particularly improved the short-term effectiveness of the remedy by removing the logistical challenges of performing the remedy around the buildings, improving worker safety, reducing the risk to residents, and shortening the time until remedial objectives could be met.

Even with the added cost of purchasing the property and building demolition, the revised remedy is cost-effective, as defined in the NCP. The NCP does not require selection of the lowest-cost remedial alternative; rather, it requires that cost be evaluated in proportion to the overall effectiveness of the remedy (see 40 CFR § 300.430[f][1][ii][D]). Based on the three balancing criteria, the revised remediation approach is the more effective and protective remedy, justifying the additional costs associated with the revised remedy. Additionally, this approach is cost-effective because it reduces the likelihood of future mobilization to address soils underneath the footprint of the building when the property is redeveloped in the future, and it also reduces the long-term operation and maintenance obligations that would have been required if a vapor mitigation system had been installed in the former buildings. NDDH's preference for the expanded excavation footprint confirmed that the revised remedial approach was the preferred alternative (NDDH, 2017a⁶).

2 Remedy Implementation/Completion

Pursuant to the requirements of North Dakota Century Code §23-20.03, NSP implemented the NDDH-approved remediation plan. The Barr Technical Memorandum provides details of the successful remedy implementation.

2.1 Post-Remediation Risk Evaluation and Remedial Action Objective Attainment

The 2016 interim remedial action removed source material and legacy piping in discrete portions of the former southern parking lot, confirmed the locations of several former MGP structures, and provided information for the full-scale remedy implementation. The 2018 remediation effort completed across the Heartland Property involved demolition of the buildings/structures to facilitate excavation access, removal of impacted soil, MGP legacy piping, and structures (up to 15 ft bgs) from areas targeted for remediation, and replacement of the removed soil with clean granular fill.

Post-remediation analysis shows attainment of remedial action objectives (RAOs; Table 1). The remedial action at the Heartland Property removed the bulk of the source material and eliminated potential preferential pathways to the extent technically practicable. Some residual impacts (including NAPL and soils with concentrations in exceedance of NTE values; Table 2) remain at depth, overlain by clean backfill. The potential post-remediation risks associated with such residuals will need to be properly managed through the use of institutional and engineering controls. However, any future construction on the property would be through at least 5 ft and up to 15 ft of clean fill. The orange marker layer placed at the bottom of the excavation, where residual impacts may exist, will indicate to future workers that excavation below the depth of the marker layer would require following a soil and groundwater management plan to properly manage residual risks. The LTM plan (as may be amended) will be implemented to monitor the long-term attenuation and stability of groundwater and soil vapor.

Table 1 Basis for Attainment of Remedial Action Objectives

Remedial Action Objective	Basis for Attainment
Surface Soil, Subsurface Soil, and Groundwater: Control the potential for direct exposure to impacted soil and/or impacted groundwater at levels that may pose unacceptable human health risks to current and future potential receptors based on reasonably anticipated land use (<i>i.e.</i> , prevent exposure to chemicals posing an HI of >1 and a lifetime excess cancer risk of $>1 \times 10^{-6}$, for individual carcinogens, or $>1 \times 10^{-5}$, for multiple carcinogens).	Targeted removal of source material and impacted soil from the Heartland Property has reduced the risk of future potential direct exposure. Clean fill now constitutes all of the surface soil on the property. Institutional/engineering controls will manage any residual risks associated with impacted soil and groundwater (below the orange marker layer).
Source Material (NAPL and Heavily Impacted Soil): Reduce the mass, volume, and/or mobility through treatment or removal and off-Site disposal, as practicable based on property-specific conditions. This will, in turn, help achieve attenuation and the stability of the groundwater and soil gas impacts (see below). Achieve attenuation and stability of subsurface NAPL.	Targeted remedial action removed the bulk of the source material (NAPL and former MGP structures) at the Heartland Property, thus reducing the driving head for subsurface NAPL migration and allowing for long-term attenuation/stabilization of any residuals. Legacy MGP piping (<i>i.e.</i> , no longer regularly maintained or used) that could potentially serve as a preferential pathway for constituent migration into the remediated area has been removed. Migration into other, adjacent areas not part of the Site-wide remediation is not expected, because impacts in other adjacent areas were not observed in the RI/FFS (Gradient, 2016a ⁵) and because the impacted material/piping in this area has been removed.
Groundwater: Achieve attenuation and stability of impacted groundwater associated with MGP source material.	Removal of source material and impacted soil will result in long-term stabilization and attenuation of impacted groundwater and soil gas.
Soil Gas: As necessary, protect potential receptors from exposure to potential MGP constituents that may pose a human health risk <i>via</i> the vapor intrusion pathway. Achieve attenuation and stability of impacted soil gas associated with potential MGP source material and impacted groundwater.	An LTM plan is being implemented to monitor long-term attenuation and stabilization of groundwater.

Notes:

HI = Hazard Index; LTM = Long-Term Monitoring; MGP = Manufactured Gas Plant; NAPL = Non-aqueous Phase Liquid; RI/FFS = Remedial Investigation/Focused Feasibility Study.

3 Unanticipated Conditions Encountered During Remedial Action

An underground storage tank (UST) with a capacity of approximately 700 gallons was encountered during remedial action at the Heartland Property. NDDH and the Cass County Public Health Department were notified, a permit was obtained from the City of Fargo Fire Department, and the tank was properly removed and disposed of as reported in the Barr Technical Memorandum.

The sanitary sewer piping for the Heartland Property was also properly removed during excavation activities to the 11th Street North western easement. The City of Fargo was notified, and the service line was disconnected from the sewer main at the main. The remaining section of pipe, leading from the disconnection at the main to the 11th Street North western easement, was grouted in place, as approved by the City of Fargo. Refer to the Barr Technical Memorandum for further details.

4 Conclusion

The NDDH-approved RAWP was successfully implemented at the Heartland Property, supplementing the prior interim remedial action conducted in the southern parking lot and removing the bulk of the former MGP structures and source material to depths designed to mitigate identified potential future risks. NSP has completed the environmental assessment and remediation for the Heartland Property and plans to continue monitoring the Site consistent with the NDDH-approved LTM plan. Upon completion of long-term monitoring, NSP anticipates seeking a No Further Action determination for the Fargo MGP Site and placing an environmental covenant on the Heartland Property to ensure ongoing implementation of appropriate institutional controls.

Table 2 In-place Samples with NTE Exceedances

Sample ID	Depth (ft bgs)	Date	Analyte	Concentration (mg/kg)	NTE Value (mg/kg)
B-HLA-07	8-10	5/23/2016	DRO	1800	1100
B-HLA-14	14-16	5/17/2016	Benzo(a)pyrene	16	14
			DRO	1900	1100
B-HLA-14	28-30	5/17/2016	DRO	1900	1100
B-HLA-24	18-20	5/23/2016	DRO	2900	1100
B-HLA-29	18-20	5/24/2016	Naphthalene	5800	2400
			GRO	5400	1600
			DRO	10000	1100
B-HLA-33	18-20	5/31/2016	Benzo(a)pyrene	26	14
			DRO	4100	1100
B-HLA-35	18-20	6/1/2016	Benzo(a)pyrene	21	14
			DRO	1500	1100
B-HLA-36	18-20	6/1/2016	DRO	6700	1100
HLA-BS27	10	8/1/2018	DRO	2100	1100
HLA-BS29	14	8/1/2018	Benzo(a)pyrene	18	14
			DRO	1200	1100
HLA-BS35	7	8/2/2018	DRO	1400	1100
HLA-BS39	9	8/3/2018	Benzo(a)pyrene	18	14
			DRO	1700	1100
HLA-BS103	8	8/16/2018	DRO	2400	1100
HLA-BS108	8	8/17/2018	Benzo(a)pyrene	17	14
			DRO	3100	1100
HLA-BS112	8	8/17/2018	DRO	2200	1100
HLA-BS122	8	8/22/2018	Benzo(a)pyrene	17	14
			DRO	2500	1100
HLA-BS124	12	8/23/2018	Benzo(a)pyrene	43	14
			DRO	6400	1100
HLA-BS130	8	9/6/2018	Benzo(a)pyrene	17	14
			DRO	2300	1100
HLA-BS134	12	9/7/2018	Benzo(a)pyrene	48	14
			DRO	3400	1100
HLA-BS135	12	9/7/2018	Benzo(a)pyrene	39	14
			DRO	1300	1100
HLA-BS136	8	9/7/2018	Benzo(a)pyrene	16	14
HLA-BS137	8	9/8/2018	DRO	2400	1100
HLA-BS140	8	9/10/2018	DRO	3100	1100
HLA-BS189	8	9/18/2018	DRO	4400	1100
HLA-BS191	8	9/18/2018	Benzo(a)pyrene	20	14
HLA-BS193	8	9/19/2018	DRO	1900	1100
HLA-BS194	8	9/19/2018	Benzo(a)pyrene	46	14
			DRO	5700	1100
HLA-BS199	5	9/20/2018	DRO	2900	1100
HLA-BS225	6	9/26/2018	DRO	3300	1100
HLA-BS229	6	9/26/2018	Benzo(a)pyrene	33	14
			DRO	5900	1100
HLA-BS234	6	9/26/2018	Benzo(a)pyrene	15	14
			DRO	1300	1100
HLA-BS345	8	10/16/2018	Benzo(a)pyrene	40	14
			GRO	1800	1600
			DRO	9100	1100
HLA-BS347	8	10/17/2018	DRO	3300	1100
HLA-BS358	5	10/18/2018	DRO	1400	1100
MW-HLA-04M	12-14	6/4/2016	DRO	1600	1100

Notes:

DRO = Diesel Range Organics; ft bgs = Feet Below Ground Surface; GRO = Gasoline Range Organics; NR = Not Reported; NTE = Not to Exceed.



Technical Memorandum

Remedial Action Documentation – Heartland Property Fargo MGP Site

Prepared for
Northern States Power Company

March 1, 2019

Technical Memorandum

To: Northern States Power Company
From: Barr Engineering Co.
Subject: Remedial Action Documentation – Heartland Property
Date: March 1, 2019
Project: Fargo MGP Site

This Remedial Action Documentation memorandum has been prepared by Barr Engineering Co. (Barr) on behalf of Northern States Power Co. (NSP) to summarize remedial activities completed at the Heartland Apartments Property, formerly owned by Heartland Properties, Inc. (Heartland Property), as a component of the North Dakota Department of Health (NDDH) approved remedial action for the former manufactured gas plant (MGP) that was primarily located on the Heartland Property at 11 12th Street North in Fargo, North Dakota (Figure 1). The Remedial Investigation/Focused Feasibility Study (RI/FFS; Gradient, 2016b) determined that targeted source removal and a preemptive vapor mitigation system for existing buildings would achieve the remedial objectives for the Heartland Property.

A Remedial Action Work Plan – Heartland Property (RAWP; Barr, 2017a) was approved by the NDDH to address environmental impacts related to historical activities. The RAWP provided details regarding the targeted source removal, which included excavating and properly disposing impacted materials (soil, remnant MGP structures, foundations) and removing former MGP piping that may have been serving as preferential pathways. As stated in the RAWP, NSP was in the process of negotiating an agreement to purchase the Heartland Property at the time of the submittal. Subsequently, NSP completed the property transaction prior to remedial efforts that allowed for unrestricted access and demolition of all buildings. This eliminated the need for a preemptive vapor mitigation system and allowed for a more complete source removal, which increased the overall remedial scope and effectiveness.

The targeted source removal work at the Heartland Property is complete and was performed in accordance with the RAWP and Soil Management Plan (Barr, 2017a and Barr, 2018). The following sections of this report detail the activities completed at the Heartland Property.

Background – Heartland Property

Several multi-media investigations were conducted on the Heartland Property prior to remedial actions in 2018. Initial investigations began in November 2015 and included collecting surface soil samples and exterior soil gas samples. Additionally, a geophysical survey that included ground penetrating radar (GPR) and electromagnetics (EM) was conducted over portions of the Heartland Property. The EM survey identified several buried metallic features. Sampling results and geophysical survey details were provided in the RI/FFS (Gradient, 2016b).

In February 2016, sub-slab soil gas samples were collected and a sub-slab depressurization (SSD) pilot test was conducted in Heartland Wing A. The SSD pilot testing included both depressurizing the drain tile system and suction ports installed through the floor in two apartment units (4A and 8A) located on the garden level in Heartland Wing A. Additional details were provided in a technical memorandum submitted to the NDDH (Barr, 2016a). Based on the results of the pilot testing, it was concluded that “there are no unacceptable risks to human health from vapor intrusion into the Heartland Apartment buildings based on current conditions as determined by the current data set” (Gradient, 2016a). However, a full scale preemptive vapor mitigation system was designed for the Heartland Property because it would provide the highest level of certainty in human health protection and would be less disruptive and more cost effective than collecting additional soil gas samples throughout the buildings and given challenges with obtaining access to perform further studies from the former owners of the property. After extensive negotiations over several months, an access agreement could not be achieved with the Heartland Property owners to install the preemptive vapor mitigation system.

Between May and June 2016, additional subsurface investigations were performed to characterize potential MGP sources on the Heartland Property. Forty-one borings were advanced to collect soil, groundwater, soil gas, and/or non-aqueous phase liquid (NAPL) samples, where present, and 11 groundwater monitoring wells were installed. Additional surface soil samples were also collected. In July 2016, four test pits were excavated on the Heartland Property to assess subsurface conditions in the vicinity of historical MGP features. Soil samples were collected from the test pits for physical and analytical tests. Additional sub-slab soil gas samples were collected at the former coal storage building in July and August 2016. The results of this work were provided in the RI/FFS (Gradient, 2016b).

The RI/FFS (Gradient, 2016b) and RAWP (Barr, 2017a) were prepared using the data collected during previous investigations, which were submitted and approved by NDDH. NSP continued negotiating with the Heartland Property owners for access to the property to carry out the NDDH-approved remedial actions. In September 2017, NSP was granted short-term access to install the drain tile depressurization portion of the preemptive vapor mitigation system as an interim measure while negotiations continued. Additional details on the interim vapor mitigation system were provided in an Implementation Report: Heartland Apartments Property – Interim Vapor Mitigation (Barr, 2017b). To resolve the need for access, a purchase agreement was reached between NSP and the Heartland Property owners in December 2017. NSP closed on the purchase of Heartland Property at the end of May 2018 and initiated implementation of remedial actions as described in the RAWP (Barr, 2017a).

Remedial Action Implementation

Pre-Remedy Monitoring

Pre-remedy site conditions are shown on Figure 2. Prior to remedial action implementation, groundwater and perimeter air monitoring samples were collected by Barr to document pre-remedy conditions.

On June 20, 2018, 11 Heartland Property monitoring wells (MW-HLA-01, MW-HLA-01D, MW-HLA-02, MW-HLA-03, MW-HLA-04, MW-HLA-04M, MW-HLA-05, MW-HLA-05M, MW-HLA-06, MW-HLA-06M, and MW-HLA-07) were sampled (see Figure 3). The groundwater samples were submitted to Legend Technical Services, Inc. (Legend) where they were analyzed in accordance with the RAWP for

- benzene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by Environmental Protection Agency (EPA) method 8260B,
- naphthalene by EPA method 8270D, and
- total petroleum hydrocarbons (TPH), reported as diesel range organics (DRO)/gasoline range organics (GRO), by EPA methods 9012B and 8015D, respectively.

The groundwater samples were collected in general accordance with Barr's standard operating procedure (SOP) for groundwater sample collection, which is included in the Quality Assurance Project Plan (QAPP; Barr, 2016). Groundwater analytical results are summarized in Table 1. Field forms and analytical reports are included in Attachments 1 and 2, respectively.

Several of the parameters analyzed were detected above reporting detection limits (see Table 1). Benzene and GRO concentrations in the groundwater were greater than the risk-based Not to Exceed (NTE) values from the RI/FFS (Gradient, 2016b) at monitoring well MW-HLA-04M and GRO was greater than the NTE at monitoring well MW-HLA-04, located in the west-central portion of the Heartland Property near the former MGP infrastructure.

Perimeter air monitoring samples were collected on June 20, 2018 from monitoring stations OA1 through OA8 (see Figure 4). The perimeter air samples for laboratory analysis were collected in general accordance with Barr's SOP for Collection of Indoor and Ambient Air Samples Using Evacuated Canisters, which is included in the QAPP (Barr, 2016b). The samples were submitted to ALS Environmental (ALS) where they were analyzed for benzene, naphthalene, 1,2,4-TMB and 1,3,5-TMB using EPA Toxic Organics Method-15 (TO-15) in accordance with the RAWP.

In addition to the laboratory samples, field measurements from a photoionization detector (PID); a personal dust monitor; a sound decibel meter; and a 4-gas meter measuring hydrogen sulfide, carbon monoxide, oxygen, and lower explosive limit (LEL) were recorded. The laboratory results are summarized in Table 2 and the field measurements are provided in Attachment 3.

General Operations

NSP contracted with Veit and Company, Inc. (Contractor) to implement the remedial actions. The Contractor prepared a Health Site Safety Plan that addressed the requirements of Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120).

The Heartland Property was restricted to authorized and trained personnel by the Contractor. Fencing and security lighting were installed at the construction limits to restrict access. Erosion control measures were implemented to protect surface water quality in the surrounding areas. Storm water was diverted from impacted materials in open excavations to prevent impacted water generation.

During the earthwork activities, Barr was responsible for field screening and managing soils, collecting samples, assisting the Contractor with verifying potential contingency items, sampling and screening imported backfill soils, and documenting air quality around the Heartland Property perimeter. Pertinent photographs of the work are included as Attachment 4.

Project Preparation

Preexisting conditions within the excavation areas included existing buildings, paved parking areas, and grass-covered areas on the east and west sides of the Heartland Property generally between the apartment buildings and 11th Street N and on the west side between the apartment building and 12th Street N as shown on Figure 2. The monitoring wells located on the Heartland Property (MW-HLA-01, MW-HLA-01D, MW-HLA-02, MW-HLA-03, MW-HLA-04, MW-HLA-04M, MW-HLA-05, MW-HLA-05M, MW-HLA-06, MW-HLA-06M, and MW-HLA-07) were permanently sealed prior to the start of soil excavation activities. The well sealing records are included in Attachment 1.

The Contractor and/or Barr obtained the necessary state, county, and city permits prior to performing the demolition and earthwork, as detailed in the project specifications and contract. Signs, barricades, and construction fencing were utilized, as needed, to control the work area.

Erosion control devices including, but not limited to, storm water inlet protection, rock construction entrances, construction mats, and erosion control logs, were used to prevent erosion and transport of clean and contaminated materials offsite during excavation work. Adjacent street surfaces were swept daily or as necessary to limit sediment runoff.

The buildings were demolished and removed concurrent with excavation activities. Prior to demolition activities, a hazardous materials and asbestos containing material (ACM) survey was completed by NDDH-certified asbestos inspectors. The non-building waste materials that were not removed by the property owner prior to NSP's purchase of the property (appliances, electronics, hazardous materials and wastes, lighting components and ballasts, mercury-containing electrical switches and thermostats, refrigerants, solid waste, transformers, etc.) were identified, removed, and properly managed, recycled, or disposed. Regulated ACM was properly removed by NDDH-certified and licensed contractors and properly disposed at the Fargo landfill in accordance with NDDH requirements. The demolition sampling and disposal documentation is included in Attachment 5.

Dewatering of the excavation occurred when water was encountered within MGP structures or had accumulated after rainfall events. Water, regardless of the source, was pumped from the excavation into a 2,000-gallon polyethylene transfer tank and transferred to a large steel storage tank for treatment through granular activated carbon (GAC) filters prior to sampling and approval by the City of Fargo (City) for discharge to the sanitary sewer.

Targeted Source Removal and Disposal

Following preparation activities, approximately 37,638 tons of impacted soil, remnant MGP piping, and MGP infrastructure were excavated to depths ranging from 5 feet to 12 feet below ground surface, with the exception of two locations (HLA-BS29 and HLA-BS95), which were excavated to 14 and 15 feet below ground surface, respectively. The remnant MGP piping and subsurface structures were located within the footprints of former MGP configuration(s) based on historical engineering drawings (see Figure 5). Remnant MGP piping was generally observed to be intact when still present and often filled with water, sediment, and/or tar-like material. Former MGP subsurface foundations were generally observed to be largely intact and typically filled with soil, brick debris, concrete debris, groundwater, and/or tar-like material. A summary of the encountered and removed MGP artifacts is summarized in Table 3 and shown on Figure 5. The excavation extent covered the entire Heartland Property as shown on Figures 6 and 7. Impacted soil, MGP piping, and infrastructure were transported offsite for disposal at Vonco II landfill in Becker, Minnesota. Remnant plant concrete infrastructure that was not impacted was recycled at Strata Corporation in Fargo. The waste profile, disposal manifests, and a tonnage summary are included as Attachment 7 (CD only).

Odor and dust control practices were implemented during targeted soil excavation activities in accordance with the RAWP and project specifications that included:

- Limiting the duration and quantity of soil exposed to the atmosphere;
- Limiting work during unfavorable wind conditions (e.g., high winds, receptors downwind);
- Loading of excavated soil, remnant MGP foundations, and process piping directly into trucks and covering the truck beds for transport to the landfill or temporarily staging excavated materials with appropriate controls;
- Applying odor/vapor suppressant spray foam on excavation sidewalls, excavated soil, and soil loaded into trailers for transport;
- Backfilling excavated areas with clean fill as soon as possible following the excavation; and
- Utilizing a temporary tensioned fabric (tent) structure during the excavation, staging and loading of excavated material from portions of the southwest quadrant of the Heartland Property.

The tent structure was equipped with an air-handling system removing a minimum of five air exchanges per hour. The air-handling system discharge was routed through a vapor phase activated carbon treatment unit to remove volatile organic compounds (VOCs) before discharging to the atmosphere.

Field screening of soils and remnant MGP features was performed during excavation work by Barr staff to document removal activities, as well as excavation base and sidewall conditions prior to backfilling. Field screening observations included the presence and type of structures, debris, odor, soil vapor headspace readings (using a PID equipped with a 10.6 eV lamp), and visual examination for discoloration and

petroleum sheen. Soil sample field screening results were generally consistent with the previous phases of investigations performed (clayey soils, odors, staining, elevated headspace readings and NAPL primarily within the southwestern portion of the Heartland Property) and are included in Attachment 1.

A total of 128 base of excavation (designated with "BS") and five sidewall (designated with "SW") analytical samples were collected at locations shown on Figure 6 and submitted to the laboratory for VOCs by EPA method 8260B, semi-volatile organic compounds (SVOCs) by EPA method 8270D, and TPH reported as GRO/DRO by EPA methods 9012B and 8015D, respectively, in accordance with the RAWP. A summary of soil samples collected and sample results are provided in Tables 4 and 5; respectively. Lab reports are included as Attachment 2.

Results from soil samples collected at the extent of the excavation were at or below the NTE values (RI/FFS, Gradient, 2016b) with the exception of DRO (24 samples ranging up to 9,100 milligrams per kilogram [mg/kg] at location HLA-BS345-8'), GRO (one sample 1,800 mg/kg at location HLA-BS345-8') and benzo(a)pyrene (14 samples up to 48 mg/kg at location HLA-BS134-12"). Post excavation soil sample result figures are provided in Attachment 8. [Note: Post excavation soil sample result figures include both final excavation extent samples and investigation samples that were not excavated].

The final extent of excavations were surveyed and an orange marker layer (i.e., construction fencing or fabric) was placed at the base of excavation where NAPL or residual impacts remained elevated based on field observations and physical limitations in accordance with the RAWP (see Attachment 6).

Air Monitoring

During remedy implementation, air monitoring was conducted within the work zone and at the downwind perimeter of the work zone for indicator contaminants with thresholds for exposure (i.e., benzene and naphthalene), odor, and dust. The monitoring results were recorded and posted on a project website during implementation (<https://www.barr.com/maps/FargoMGPAirMonitoring> - now inactive) and are now summarized in Attachment 3.

Nine air analytical samples were collected at locations OA5, OA7, and OA8 during source removal activities at the Heartland Property. Air sample locations were selected in close proximity to and downwind of the work zone, according to prevailing wind patterns based on real-time weather station data. Air sample collection periods were selected in anticipation that the excavation would be located in an MGP-impacted zone. During periods where the work zone was within the temporary tent structure, analytical samples were not collected and work zone air monitoring inside the temporary tent structure was conducted. The analytical samples were submitted to ALS and analyzed for benzene, naphthalene, 1,2,4-TMB, and 1,3,5-TMB using EPA method TO-15. Analytical sample results are included in Table 2.

As shown in Table 2, the concentrations of all analytes were below air monitoring thresholds from the National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) and

the OSHA Permissible Exposure Limits (PELs). The monitoring methods, equipment, specification, frequency, and action levels are summarized in the RAWP (Barr, 2017).

Contingencies Executed

Underground Storage Tank:

An underground storage tank (UST) containing water was encountered during remedial action activities at the Heartland Property (see Figure 6). The tank was shown on a historical drawing east of the former car shop elevator near the southeast corner of the former MGP. The tank capacity was approximately 700 gallons. The contractor obtained a permit from the City of Fargo Fire Department to remove the UST, which was removed, managed, and disposed in accordance with industry standards. The NDDH and Fargo-Cass Public Health Department were also notified about the plan to remove the tank (see Attachment 1). The NDDH has authority over the USTs and determined that this area was part of the overall former MGP investigation and cleanup.

The tank was observed to have bottom corrosion and was full of tree roots and groundwater when encountered. Due to the corrosion, the top of the tank peeled off during the excavation work, which allowed the Contractor to pump the water from the UST into a transfer tank prior to treatment as previously described. During the excavation work, a limited amount of associated distribution and/or vent piping was observed to still be attached to the top of the tank.

The soil from directly below the tank had a gasoline-like odor. Field screening results are included in Attachment 1. No NAPL was observed during the removal. Impacted soil associated with the UST was excavated as feasible to a depth of approximately 15 feet below ground surface. Impacted soil was removed to the north, west, and south of the tank but the horizontal extent to the east was not excavated due to the presence of active fiber optic cables and the 11th Street N sidewalk on the City right-of-way.

Four soil samples were collected in the vicinity of the UST. Soil sample HLA-BS94-9' was collected to document conditions directly below the UST. Soil from this sample interval was removed as the excavation proceeded as noted on Figure 6 as removed. Sample HLA-BS95-15' was collected from the base of excavation below the tank. Sample HLA-SW97-9' was collected south of the UST from the south sidewall and sample HLA-SW99-9' was collected east of the UST from the east sidewall. Soils to the north and west of the UST were being removed as part of the remedial excavation; therefore, no north or west sidewall samples were collected.

As shown in Table 5, GRO, SVOC, and VOC parameters were detected in the soil sample (HLA_SW99-9') collected from the eastern sidewall; however, none of the reported concentrations exceeded NTE values and it was infeasible to excavate the horizontal extent to the east any further due to the presence of active fiber optic cables and the 11th Street N sidewalk on the City right-of-way. The NDDH agreed with this field determination. No analytes were reported above the laboratory reporting limit for the soil samples collected from the base of excavation below the UST (HLA-BS95-15') or the south excavation sidewall sample HLA-SW97-9').

Non-MGP Pipe Removed:

The Heartland Property sanitary sewer line was excavated from Wing C of the former Heartland building to the property line along 11th Street N (Figure 6). Due to concerns with excavation under the sidewalk and other utilities in 11th Street N, the service connection at the main was exposed, disconnected, and plugged as requested by the City. Upon completion of the work and notification to the City, the excavation was backfilled and compacted and the concrete road surface was replaced.

Restoration

Approximately 23,200 cubic yards of clean backfill soil was imported and placed at the Heartland Property. Native, low-permeability backfill was sourced from two locations in Moorhead, Minnesota; 1) excess soil located north of 209 Wall Street Avenue NW from a diversion pond excavation associated with the Buffalo – Red River Watershed District, and 2) Strata Corporation located at 2660 16th Ave S. Topsoil used for final grading before seeding was sourced from Strata Corporation's Dilworth Pit. Prior to transport, the imported soil was tested for VOCs, SVOCs, GRO, and DRO in accordance with the RAWP. A summary of soil samples collected from the fill sources and sample results are provided in Tables 4 and 6; respectively. Lab reports are included as Attachment 2.

Excavation areas were backfilled as work progressed to maintain excavation stability. In general, excavations were backfilled in 6-inch lifts and compacted to 95% of Standard Proctor density. Ground surfaces were restored to grade and seeded to establish vegetation. Post remediation site conditions are shown on Figure 8 and record drawings showing final grade are included as Attachment 6.

Post Remedy Air Monitoring

Similar to baseline/background monitoring, air monitoring was conducted following completion of remedial activities in accordance with the RAWP. Perimeter air monitoring samples were collected on November 8, 2018 from monitoring stations OA1 through OA8 (see Figure 4). The samples were submitted to ALS where they were analyzed for benzene, naphthalene, 1,2,4-TMB, and 1,3,5-TMB using EPA method TO-15. The laboratory results are summarized in Table 2 and the field measurements are provided in Attachment 3. No analytes were detected in any of the samples.

Remarks

The response action activities were completed in accordance with the RAWP, with the exception of the additional tasks performed as detailed in the Contingencies Executed section above.

Please contact Rob Heimbach at (952) 832-2739 (rheimbach@barr.com) or Mary Sands at (952) 832-2718 (msands@barr.com) with any questions or comments.

Enclosures

Table 1 – Pre-Remedy Analytical Groundwater Monitoring Data
Table 2 – Analytical Air Monitoring Data
Table 3 – Encountered MGP Artifacts Summary
Table 4 – Analytical Soil Sample Summary
Table 5 – Excavation Extents Analytical Soil Data
Table 6 – Backfill Analytical Soil Data

Figure 1 – Property Location
Figure 2 – Pre-existing Conditions
Figure 3 – Monitoring Well Locations
Figure 4 – Air Monitoring Locations
Figure 5 – Field Verified Historical Artifacts (Removed)
Figure 6 – Source Removal Extents
Figure 7 - Excavation Contours
Figure 8 – Post Remediation

Attachment 1 – Field Documentation
Attachment 2 – Lab Reports (CD Copy Only)
Attachment 3 – Perimeter Air Monitoring Data
Attachment 4 – Photographic Log
Attachment 5 – Building Demolition and Disposal Documentation (CD Copy Only)
Attachment 6 – Source Removal Record Drawings
Attachment 7 – Soil Disposal Documentation (CD Copy Only)
Attachment 8 – Post Excavation Soil Sample Results

References

- Barr, 2018. Soil Management Plan – Fargo MGP Site, Fargo, Cass County, North Dakota. Prepared for Northern States Power Company. June 19, 2018.
- Barr, 2017a. Remedial Action Work Plan – Fargo MGP Site, Heartland Apartments Property, Fargo, Cass County, North Dakota. Prepared for Northern States Power Company. June 23, 2017.
- Barr, 2017b. Implementation Report: Heartland Apartments Property – Interim Vapor Mitigation – Fargo MGP Site, Fargo, Cass County, North Dakota. Prepared for Northern States Power Company. November 8, 2017.
- Barr, 2016a. Technical Memorandum – Heartland Apartments Property Investigation Results. Prepared for Al Peterson, Northern States Power Company. March 21, 2016.
- Barr, 2016b. Quality Assurance Project Plan, Former Fargo MGP Site Fargo, North Dakota., Revision 1. Prepared for Northern States Power Company. April, 2016.
- Gradient, 2016a. Preliminary Evaluation of the Vapor Intrusion Pathway and Comparative Analysis of Alternatives – Heartland Apartments Property, Fargo Former MGP Site, Fargo, Cass County, North Dakota. Prepared for Northern States Power Company. April 1, 2016.
- Gradient, 2016b. Remedial Investigation and Focused Feasibility Study, Fargo MGP and Vicinity, Prepared for Northern States Power Company, November 29, 2016.

Tables

Table 1
Pre-Remedy Analytical Groundwater Monitoring Data
Heartland Apartments Property - Fargo MGP Site
Fargo, ND

Location Date Depth Sample Type			MW-HLA-01	MW-HLA-01D	MW-HLA-02	MW-HLA-03	MW-HLA-04	MW-HLA-04M		MW-HLA-05	MW-HLA-05M	MW-HLA-06	MW-HLA-06M	MW-HLA-07
			6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018		6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018
			4 - 19 ft	50 - 60 ft	4 - 19 ft	4 - 19 ft	4 - 19 ft	20 - 30 ft	20 - 30 ft	4 - 19 ft	20 - 30 ft	4 - 19 ft	20 - 30 ft	4 - 19 ft
			N	N	N	N	N	N	FD	N	N	N	N	N
Parameter	Units	GW Not to Exceed (NTE) Value ¹												
Exceedance Key		<u>Underline</u>												
SVOCs														
Naphthalene	ug/l	NC	< 10	< 11	< 10	< 10	6300	4800	4300	< 10	150	< 13	< 10	160
VOCs														
1,2,4-Trimethylbenzene	ug/l		< 1.0	< 1.0	< 1.0	1.5	220	270	300	< 1.0	8.5	49	3.0	28
1,3,5-Trimethylbenzene	ug/l		< 1.0	< 1.0	< 1.0	< 1.0	100	120	110	< 1.0	3.9	19	< 1.0	5.5
Benzene	ug/l	<u>3000</u>	< 1.0	< 1.0	< 1.0	< 1.0	1700	<u>9400</u>	<u>9300</u>	< 1.0	230	230	16	1400
Total Petroleum Hydrocarbons														
Diesel Range Organics-silica gel cleanup	ug/l	NC	< 100	< 110	< 100	170	11000	7500	8000	250	740	2700	170	1800
Gasoline Range Organics, C6-C10	ug/l	<u>4100</u>	< 100	< 100	< 100	< 100	<u>13000</u>	<u>23000</u>	<u>19000</u>	< 100	630	1700	110	2800

Table 1
Pre-Remedy Analytical Groundwater Monitoring Data
Heartland Apartments Property - Fargo MGP Site
Fargo, ND

Barr Standard Footnotes and Qualifiers

N	Sample Type: Normal
FD	Sample Type: Field Duplicate

Groundwater Not to Exceed (NTE) Value

(1)	Site-specific groundwater cleanup goal (see 2016 Remedial Investigation and Focused Feasibility Study for further details [Gradient, 2016]).
NC	NTE values were not calculated for this compound because risks were within US EPA limits for this pathway.

Table 2
Analytical Air Monitoring Data
Heartland Apartments Property - Fargo MGP Site
Fargo, North Dakota

Background Perimeter Air Monitoring Results (Pre-Targeted Source Removal)

Parameter			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Naphthalene
NIOSH REL ⁽¹⁾			125,000 µg/m ³	125,000 µg/m ³	319 µg/m ³	50,000 µg/m ³
OSHA PEL ⁽²⁾			125,000 µg/m ³	125,000 µg/m ³	3,190 µg/m ³	50,000 µg/m ³
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³
Location	Date	Sample Type				
OA1	6/20/2018	N	0.89	< 0.84	< 0.86	1.3
OA4	6/20/2018	N	< 0.85	< 0.84	< 0.85	< 0.85
OA6	6/20/2018	N	< 0.81	< 0.80	< 0.81	< 0.81
OA2	6/20/2018	N	< 0.81	< 0.79	< 0.81	< 0.81
OA3	6/20/2018	N	< 0.78	< 0.77	< 0.78	< 0.78
OA5	6/20/2018	N	< 0.82	< 0.80	< 0.82	< 0.82
OA7	6/20/2018	N	< 0.79	< 0.77	< 0.79	< 0.79
OA8	6/20/2018	N	< 0.79	< 0.77	< 0.79	< 0.79

Perimeter Air Monitoring Results During Targeted Source Removal Excavation

Parameter			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Naphthalene
NIOSH REL ⁽¹⁾			125,000 µg/m ³	125,000 µg/m ³	319 µg/m ³	50,000 µg/m ³
OSHA PEL ⁽²⁾			125,000 µg/m ³	125,000 µg/m ³	3,190 µg/m ³	50,000 µg/m ³
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³
Location	Date	Sample Type				
OA8	8/01/2018	N	< 0.75	< 0.75	1.5	3.1
OA5	8/16/2018	N	< 0.76	< 0.76	< 0.74	0.83
OA8	8/22/2018	N	< 0.74 h	< 0.74 h	2.2 h	0.86 h*
OA7	9/07/2018	N	< 0.74	< 0.74	1.2	< 0.71
OA8	9/14/2018	N	< 0.77	< 0.77	< 0.75	< 0.74
OA8	9/20/2018	N	< 0.73	< 0.73	< 0.72	< 0.70
OA8	9/25/2018	N	< 0.72	< 0.72	< 0.71	< 0.69
OA8	10/09/2018	N	< 0.74	< 0.74	< 0.73	< 0.71
OA7	10/15/2018	N	< 0.67	< 0.67	< 0.66	< 0.64

Background Perimeter Air Monitoring Results (Post-Targeted Source Removal)

Parameter			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Naphthalene
NIOSH REL ⁽¹⁾			125,000 µg/m ³	125,000 µg/m ³	319 µg/m ³	50,000 µg/m ³
OSHA PEL ⁽²⁾			125,000 µg/m ³	125,000 µg/m ³	3,190 µg/m ³	50,000 µg/m ³
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³
Location	Date	Sample Type				
OA1	11/08/2018	N	< 0.67	< 0.67	< 0.66	< 0.64
OA6	11/08/2018	N	< 0.60	< 0.60	< 0.59	< 0.58
OA3	11/08/2018	N	< 0.80	< 0.80	< 0.78	< 0.77
OA2	11/08/2018	N	< 0.64	< 0.64	< 0.63	< 0.62
OA4	11/08/2018	N	< 0.67	< 0.67	< 0.66	< 0.65
OA5	11/08/2018	N	< 0.65	< 0.65	< 0.63	< 0.62
OA7	11/08/2018	N	< 0.65	< 0.65	< 0.64	< 0.63
OA8	11/08/2018	N	< 0.67	< 0.67	< 0.66	< 0.64

⁽¹⁾ National Institute for Occupational Safety and Health (NIOSH) - Recommended Exposure Limits (RELs)

⁽²⁾ Occupational Safety and Health Administration (OSHA) - Permissible Exposure Limits (PELs)

N - Sample Type: Normal.

µg/m³ - Micrograms per cubic meter

Table 2
Analytical Air Monitoring Data
Heartland Apartments Property - Fargo MGP Site
Fargo, North Dakota

Barr Standard Footnotes and Qualifiers

N	Sample Type: Normal
FD	Sample Type: Field Duplicate
*	Estimated value, QA/QC criteria not met.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.

Table 3
Encountered MGP Artifacts Summary
Heartland Apartments Property - Fargo MGP Site - Fargo, ND

Artifact Type	Condition	General Location(s)	Photolog References (Attachment 4)	Figure 5 References
Building Infrastructure				
Concrete Foundation Walls/ Slabs	Concrete foundations and slabs of former plant buildings were encountered and removed. The foundations and slabs were constructed of poured concrete and rebar and observed to be intact and in generally good condition. The former building foundations were often filled with bricks, concrete rubble, and debris.	Primarily in the south half of the Heartland Property. The foundations and slabs were located in the footprint of former plant buildings as drawn on the former MGP historical engineering drawings.	See photos 38, 105, 106, 133, and 138 in Attachment 4 for typical conditions.	See reference numbers 1, 5, 14, and 18 of Figure 5.
Concrete Foundation Pads	Several square concrete foundation pads were encountered and removed. The concrete was observed to be in good condition. Based on the former MGP historical engineering drawings, these concrete pads were likely associated with the foundations of the garage and service station as well as other structures located in the south half of the Heartland Property.	Southeast quadrant of the Heartland Property. Located in former garage and service station area as drawn on the former MGP historical engineering drawings. Other concrete pads located in south half of the Heartland Property. Located east of the settling tank/ weak liquor well and tar well.	See photos 34 and 178 in Attachment 4 for typical conditions.	See reference number 7 of Figure 5.
Concrete Foundation Pillars	Several concrete pillars were encountered and removed. The pillars were observed to be in good condition.	Northwest quadrant of the Heartland Property. Located southeast of the former coal storage building.	See photo 150 for typical conditions.	See reference number 6 of Figure 5.
Coal Conveyor Tunnels	The coal conveyor tunnel was encountered and removed. The tunnels were constructed of poured concrete and rebar and observed to be intact and in good condition. The tunnels were filled with bricks, concrete rubble, and groundwater.	Northwest quadrant of the Heartland Property. Located beneath the former coal storage building and extending south as drawn on former MGP historical engineering drawings.	See photos 7, 12, 101, 127, and 132 in Attachment 4 for conditions.	See reference numbers 3 and 4 of Figure 5.
Brick Structures	Several manhole-like circular brick structures were encountered and removed. The general condition of the bricks was observed to be poor. The structures were generally filled with brick debris, soil, and groundwater. Based on the former MGP historical engineering drawings, these structures were likely associated with the sewers. One encountered brick structure was filled with brick and household debris and is most likely associated with a former homestead.	The brick structures were primarily found near clay pipes and were located in areas marked as manhole on the former MGP historical engineering drawings. The homestead brick structure was located east of Heartland C-Wing.	See photos 160 and 174 in Attachment 4 for typical conditions.	See reference numbers 2 and 9 of Figure 5.
Brick Foundation Slab	A brick foundation slab was encountered and removed. The brick slab was observed to be in poor condition with a petroleum-like odor. Based on the former MGP historical engineering drawings and field observations this likely served as a foundation for an above ground storage tank.	Northeast quadrant of the Heartland Property. Located on the northwest edge of Heartland C-Wing.	See photo 136 in Attachment 4 for conditions.	See reference number 8 of Figure 5.
Piping				
Iron Pipe Segments	Several iron pipe segments and valves were encountered and removed. The pipes typically had a diameter of 8 to 12 inches. Most pipe segments were intact and showing little corrosion. Some pipes were partially filled with tar-like material and some were filled with groundwater and/or soil. The removed pipes generally had a coal tar-like odor. Based on the former MGP historical drawings and field observations, these pipe segments were likely associated with producing and distributing manufactured gas.	Primarily in the south half of the Heartland Property. Piping was encountered primarily nearby, but not limited to, MGP process/ production structures such as the former gas holders, retorts, tar extractors/exhausters, etc.	See photos 29, 37, 53, 59, 103, 116, 124, 165, and 172 in Attachment 4 for typical conditions.	See "Iron Pipe" (delineated with yellow) of Figure 5.

Table 3
Encountered MGP Artifacts Summary
Heartland Apartments Property - Fargo MGP Site - Fargo, ND

Artifact Type	Condition	General Location(s)	Photolog References (Attachment 4)	Figure 5 References
Clay Pipe Segments	Several clay pipe segments were encountered and removed. The pipes typically had a diameter of 4 to 6 inches. The pipes were observed to be partially filled with groundwater or tar-like material. Based on former MGP historical engineering drawings and the location of where the clay pipes were encountered, it is likely that these pipes were associated with the sewers. One clay pipe segment was associated with the Heartland Property sewer line.	The clay pipes were found nearby former MGP building locations extending to rights-of-way and were located in the areas as drawn by the former MGP historical engineering drawings. The Heartland Property sewer was located beneath Heartland C-Wing and extended east to 11th Street.	See photos 54 and 104 in Attachment 4 for typical conditions.	See "Clay Pipe" (delineated as orange) of Figure 5.
Copper Pipe Segment	One 6 inch copper pipe was encountered and removed. The pipe was observed to be in good condition with no groundwater or soil inside.	Southeast quadrant of the Heartland Property. Located south of Heartland B-Wing running south beneath the NP Ave entrance apron	See photo 188 in Attachment 4 for conditions.	See "Copper Pipe" (delineated as red) of Figure 5.
Steel Pipe Segment	One steel pipe was encountered and removed. It was observed to be in good condition.	Southwest quadrant of the Heartland Property. Running north-south, located west of Heartland A-Wing. Segment ended at the Heartland A-Wing bump out.	See photo 5 in Attachment 4 for conditions.	See "Steel Pipe" (Delineated as blue) of Figure 5.
MGP Process/ Production Structures and Objects				
Tar Well	The tar well was encountered and removed. The tar well was a circular ring constructed of brick with a clay bottom and timber across the top. Portions of the northern and western quarters of the circle had been previously deconstructed in order to construct other plant structures in its place. The brick ring was observed to be intact and filled with tar-like material, brick debris, concrete rubble, soil, and groundwater. Tar-like material and groundwater was observed to be seeping through gaps in the brick ring.	Southwest quadrant of the Heartland Property. The tar well was located in the area as drawn by the former MGP historical engineering drawings.	See photos 63, 65, 70, and 90 in Attachment 4 for conditions.	See reference number 12 of Figure 5.
Settling Tank/ Weak Liquor Well	The settling tank/ weak liquor well was encountered and removed. The structure was constructed of poured concrete and rebar for the slab and sidewalls. The concrete was observed to be in good condition and filled with groundwater and brick, concrete, and timber debris.	Southwest quadrant of the Heartland Property. The settling tank/ weak liquor well was located in the area as drawn by the former MGP historical engineering drawings.	See photos 55, 56, and 64 in Attachment 4 for conditions.	See reference numbers 10 and 11 of Figure 5.
Tar Extractor/ Exhausters	The tar extractor/ exhauster structure was encountered and removed. The structure was constructed of metal and was found intact above a concrete foundation slab. The structure was observed to be in good condition and filled with groundwater.	Southwest quadrant of the Heartland Property. The tar extractor/ exhausters was located in the area as drawn by the former MGP historical engineering drawings.	See photo 164 and 170 in Attachment 4 for conditions.	See reference number 15 of Figure 5.
Tar Barrel	One wooden barrel was encountered and removed. The barrel was intact and filled with tar-like material.	Southwest quadrant of the Heartland Property. Located south of Heartland A-Wing.	See photos 24 and 25 in Attachment 4 for conditions.	See reference number 17 of Figure 5.
Railroad Ties	Several railroad ties were encountered and removed. They were observed to be mostly intact.	Southwest quadrant of the Heartland Property.	See photo 20 in Attachment 4 for conditions.	See reference number 16 of Figure 5.
Underground Storage Tank	An underground storage tank was encountered and removed. It was observed to have corrosion at the bottom and filled with groundwater. The groundwater within the tank and soil directly below the tank had a petroleum-like odor.	Southeast quadrant of the Heartland Property. Located east of the former service garage elevator shaft, as drawn by MGP historical engineering drawings.	See Photo 43 in Attachment 4 for conditions.	See reference number 13 of Figure 5.

Table 4
Analytical Soil Sample Summary
Heartland Apartments Property - Fargo MGP Site
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Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth	Sample Elevation	Organic Headspace	Comments
			Northing (meters)	Easting (meters)	(feet bgs)	(feet MSL)	(ppm)	
Post-Excavation Soil Sample Summary								
Base of Excavation Sample	HLA-BS07	7/30/2018	5193820.9841	667873.7243	6.5	894.7	0.3	
	HLA-BS11	7/30/2018	5193812.7752	667873.9756	5	896.5	1.1	
	HLA-BS19	7/30/2018	5193799.3369	667878.2618	5	894.6	1.0	
	HLA-BS20	7/30/2018	5193795.2888	667878.0634	5	894.6	3.5	
	HLA-BS27	8/1/2018	5193787.4740	667877.8029	10	895.0	645	
	HLA-BS29	8/1/2018	5193782.8551	667879.3599	14	894.0	1059	
	HLA-BS35	8/2/2018	5193755.6704	667876.9635	7	895.6	117	
	HLA-BS36	8/2/2018	5193764.5491	667877.5722	7	894.8	0.6	
	HLA-BS38	8/3/2018	5193808.8467	667876.9938	10	896.4	0.0	
	HLA-BS39	8/3/2018	5193773.6557	667878.3292	9	894.2	2100	
	HLA-BS46	8/7/2018	5193790.0957	667941.5571	6	895.5	1.0	
	HLA-BS51	8/7/2018	5193788.5548	667947.9784	5	896.4	0.7	
	HLA-BS58	8/7/2018	5193786.9437	667957.2900	5	896.7	0.7	
	HLA-BS63	8/8/2018	5193778.3257	667956.5031	5	896.8	0.0	
	HLA-BS64	8/8/2018	5193777.8924	667963.5383	5	893.8	0.0	
	HLA-BS67	8/8/2018	5193777.4711	667949.2723	5	896.6	1.5	
	HLA-BS69	8/8/2018	5193771.8443	667963.1282	5	892.3	0.0	
	HLA-BS70	8/8/2018	5193770.9440	667956.0909	5	896.4	0.0	
	HLA-BS73	8/9/2018	5193769.2613	667956.9460	5	893.7	0.0	
	HLA-BS75	8/9/2018	5193767.8267	667960.1821	5	889.5	0.0	
	HLA-BS76	8/9/2018	5193763.0119	667955.0404	5	890.4	0.0	
	HLA-BS86	8/10/2018	5193755.1315	667949.1420	5	896.3	0.0	
	HLA-BS89	8/15/2018	5193803.0415	667937.6845	5	897.1	0.6	
	HLA-BS93	8/15/2018	5193809.0608	667945.1590	5	896.6	0.5	
	HLA-BS94	8/15/2018	5193768.2461	667964.1719	9	893.0	1700	Sample was removed as part of UST removal
	HLA-BS95	8/15/2018	5193768.7400	667964.1000	15	886.9	2.0	Sample was collected below HLA-BS94 location
	HLA-BS103	8/16/2018	5193787.8937	667884.7248	8	893.8	1888	
	HLA-BS108	8/17/2018	5193787.9649	667889.6012	8	894.8	3171	
	HLA-BS112	8/17/2018	5193788.5542	667896.9123	8	894.9	3377	
	HLA-BS114	8/20/2018	5193789.6969	667906.5700	12	890.6	3297	
	HLA-BS116	8/20/2018	5193777.2363	667882.2457	8	893.5	1189	

Table 4
Analytical Soil Sample Summary
Heartland Apartments Property - Fargo MGP Site
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Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth (feet bgs)	Sample Elevation (feet MSL)	Organic Headspace (ppm)	Comments
			Northing (meters)	Easting (meters)				
Base of Excavation Sample	HLA-BS120	8/21/2018	5193781.7078	667892.3045	12	891.0	>10,000	
	HLA-BS121	8/22/2018	5193777.3496	667896.4174	12	890.2	>10,000	
	HLA-BS122	8/22/2018	5193768.7138	667881.9710	8	893.3	1259	
	HLA-BS123	8/22/2018	5193771.6017	667889.7797	12	889.6	1022	
	HLA-BS124	8/23/2018	5193770.9827	667895.9852	12	890.3	2430	
	HLA-BS127	9/6/2018	5193772.2135	667920.8288	9	893.9	41.1	
	HLA-BS130	9/6/2018	5193776.8481	667912.2465	8	894.6	607	
	HLA-BS131	9/6/2018	5193772.7840	667909.9651	9	893.2	793	
	HLA-BS134	9/7/2018	5193776.2954	667898.9368	12	890.1	1948	
	HLA-BS135	9/7/2018	5193771.5806	667905.2882	12	890.3	1542	
	HLA-BS136	9/7/2018	5193765.4418	667891.5381	8	892.8	290	
	HLA-BS137	9/8/2018	5193768.0728	667896.4227	8	890.6	1411	
	HLA-BS138	9/10/2018	5193766.1202	667906.4533	8	893.6	1161	
	HLA-BS140	9/10/2018	5193765.8500	667913.3684	8	894.7	1056	
	HLA-BS147	9/11/2018	5193768.0935	667948.0704	12	890.7	3.8	
	HLA-BS154	9/12/2018	5193774.2054	667936.1641	5	897.2	151.2	
	HLA-BS157	9/13/2018	5193784.4924	667929.4887	5	896.7	1.9	
	HLA-BS161	9/13/2018	5193792.9458	667934.3305	5	896.3	0.9	
	HLA-BS167	9/17/2018	5193749.9682	667879.1569	8	894.6	0.1	
	HLA-BS168	9/17/2018	5193750.1269	667885.3481	8	893.9	27.3	
	HLA-BS170	9/17/2018	5193803.7845	667910.0497	5	896.4	25.0	
	HLA-BS184	9/17/2018	5193798.9942	667921.2336	5	896.9	0.3	
	HLA-BS185	9/17/2018	5193805.8205	667924.7262	5	897.0	0.1	
	HLA-BS187	9/18/2018	5193835.4155	667896.2225	13	897.2	0.4	
	HLA-BS189	9/18/2018	5193758.3026	667880.7841	8	893.7	9.1	
	HLA-BS191	9/18/2018	5193763.3032	667880.1491	8	893.9	190.3	
	HLA-BS193	9/19/2018	5193774.0669	667881.8863	8	894.1	1006	
	HLA-BS194	9/19/2018	5193786.9786	667881.3571	8	894.5	1241	
	HLA-BS197	9/19/2018	5193791.1639	667883.1653	8	894.6	302.7	
	HLA-BS198	9/19/2018	5193791.3623	667886.8166	8	894.8	313.2	
	HLA-BS199	9/20/2018	5193814.5041	667929.6712	5	896.5	7.7	
	HLA-BS206	9/24/2018	5193834.6257	667953.0869	5	897.0	0.0	

Table 4
Analytical Soil Sample Summary
Heartland Apartments Property - Fargo MGP Site
Fargo, ND

Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth (feet bgs)	Sample Elevation (feet MSL)	Organic Headspace (ppm)	Comments
			Northing (meters)	Easting (meters)				
Base of Excavation Sample	HLA-BS214	9/25/2018	5193816.5282	667940.5853	5	896.4	0.0	
	HLA-BS218	9/25/2018	5193826.0135	667941.2997	5	897.6	0.0	
	HLA-BS220	9/25/2018	5193824.6642	667934.5528	5	896.0	1.3	
	HLA-BS224	9/26/2018	5193793.7833	667887.0547	6	894.8	357.2	
	HLA-BS225	9/26/2018	5193795.5295	667895.5478	6	895.8	416.2	
	HLA-BS228	9/26/2018	5193799.2998	667904.6125	6	895.9	206.8	
	HLA-BS229	9/26/2018	5193800.3714	667897.7465	6	895.2	787.3	
	HLA-BS232	9/26/2018	5193807.2373	667886.0625	6	891.9	1.9	
	HLA-BS234	9/26/2018	5193807.4755	667895.1907	6	893.6	621.4	
	HLA-BS241	9/27/2018	5193801.6017	667882.4509	5.5	895.2	0.6	
	HLA-BS244	9/28/2018	5193811.9712	667883.2463	10	890.2	0.1	
	HLA-BS250	9/28/2018	5193813.8233	667895.5495	7	893.3	9.2	
	HLA-BS251	9/28/2018	5193816.3368	667882.4526	9	891.8	0.3	
	HLA-BS252	9/29/2018	5193822.0254	667885.8922	9	892.4	0.2	
	HLA-BS258	10/1/2018	5193817.9905	667891.9115	5	895.7	0.0	
	HLA-BS262	10/1/2018	5193829.9629	667880.1375	5	896.6	0.0	
	HLA-BS264	10/1/2018	5193835.0561	667882.1880	8	897.2	0.0	
	HLA-BS266	10/1/2018	5193825.8618	667883.3125	8	895.6	0.0	
	HLA-BS269	10/2/2018	5193828.6400	667887.3474	9.5	891.7	0.0	
	HLA-BS270	10/2/2018	5193826.9202	667893.8297	5	893.1	0.0	
	HLA-BS271	10/2/2018	5193833.2702	667897.0709	9.5	891.7	0.0	
	HLA-BS272	10/3/2018	5193809.7884	667900.1136	8	892.8	0.0	
	HLA-BS276	10/3/2018	5193817.9905	667906.5297	8	897.0	0.0	
	HLA-BS277	10/4/2018	5193811.5082	667911.5568	8	894.8	0.0	
	HLA-BS278	10/4/2018	5193814.0217	667923.4631	8	894.9	0.0	
	HLA-BS279	10/4/2018	5193816.3368	667916.4516	8	895.6	0.0	
	HLA-BS281	10/4/2018	5193822.3561	667911.4907	5	896.0	0.0	
	HLA-BS284	10/5/2018	5193818.9165	667927.8949	6	896.3	0.4	
	HLA-BS285	10/5/2018	5193834.3947	667902.2964	5	896.7	0.0	
	HLA-BS286	10/5/2018	5193833.9978	667911.0277	5	896.3	0.0	
	HLA-BS288	10/5/2018	5193828.1770	667911.6230	5	896.4	0.0	
	HLA-BS295	10/6/2018	5193823.3483	667924.4553	5	896.3	0.0	

Table 4
Analytical Soil Sample Summary
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Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth (feet bgs)	Sample Elevation (feet MSL)	Organic Headspace (ppm)	Comments
			Northing (meters)	Easting (meters)				
Base of Excavation Sample	HLA-BS298	10/8/2018	5193843.7213	667925.8443	5	896.9	0.0	
	HLA-BS299	10/8/2018	5193828.4646	667933.3309	5	896.8	0.1	
	HLA-BS302	10/8/2018	5193844.9780	667938.6767	5	897.2	0.2	
	HLA-BS304	10/8/2018	5193843.7213	667944.9605	5	896.9	0.2	
	HLA-BS305	10/9/2018	5193751.5993	667965.0170	5	895.2	0.1	
	HLA-BS309	10/9/2018	5193797.5514	667946.3496	5	896.5	0.1	
	HLA-BS312	10/9/2018	5193790.3415	667962.9522	5	895.1	0.1	
	HLA-BS314	10/9/2018	5193804.6951	667947.8048	5.5	896.6	0.0	
	HLA-BS315	10/10/2018	5193799.9988	667956.6022	8	892.9	0.2	
	HLA-BS319	10/11/2018	5193804.8936	667958.3220	5.5	895.9	2.1	
	HLA-BS324	10/11/2018	5193817.6597	667948.1355	6	895.9	0.2	
	HLA-BS327	10/12/2018	5193816.9321	667955.5439	5	896.3	0.1	
	HLA-BS334	10/12/2018	5193787.7750	667911.5965	8	894.5	110.4	
	HLA-BS336	10/15/2018	5193752.8499	667888.6968	5	893.4	2.4	
	HLA-BS337	10/15/2018	5193760.6419	667889.1994	6	893.1	934.9	
	HLA-BS340	10/16/2018	5193791.5321	667918.8329	5	896.8	9.9	
	HLA-BS343	10/16/2018	5193754.2919	667898.7245	5	894.3	347.0	
	HLA-BS345	10/16/2018	5193787.0342	667917.6422	8	896.7	1019.0	
	HLA-BS347	10/17/2018	5193753.0351	667906.3313	8	894.6	774.0	
	HLA-BS349	10/17/2018	5193758.9883	667913.1443	8	896.4	397.0	
	HLA-BS352	10/17/2018	5193783.9914	667922.9339	5	896.2	4.5	
	HLA-BS354	10/18/2018	5193752.1752	667925.5136	6	895.9	396.0	
	HLA-BS358	10/18/2018	5193761.7003	667919.9574	5	896.7	360.4	
	HLA-BS361	10/19/2018	5193773.9373	667916.7162	5	894.1	7.0	
	HLA-BS366	10/19/2018	5193776.4508	667927.1673	9	896.5	0.8	
	HLA-BS369	10/20/2018	5193769.8362	667931.3345	5	897.0	16.5	
	HLA-BS371	10/22/2018	5193763.5523	667929.1516	5	897.0	59.3	
	HLA-BS374	10/22/2018	5193758.8560	667931.7975	5	896.9	2.0	
	HLA-BS379	10/23/2018	5193750.8523	667934.2449	5	896.0	8.1	
	HLA-BS381	10/23/2018	5193751.7784	667942.2485	5	896.0	0.5	
	HLA-BS383	10/25/2018	5193843.7213	667963.8783	5	896.3	0.1	
	HLA-BS386	10/25/2018	5193832.6749	667960.9679	5	896.2	0.0	
	HLA-BS388	10/26/2018	5193822.6207	667954.6178	5	896.7	0.1	

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Analytical Soil Sample Summary
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Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth (feet bgs)	Sample Elevation (feet MSL)	Organic Headspace (ppm)	Comments
			Northing (meters)	Easting (meters)				
Sidewall of Excavation Sample	HLA-SW97	8/15/2018	5193763.4994	667963.8783	9	893.1	267	
	HLA-SW99	8/15/2018	5193768.6588	667966.3918	9	891.4	1593	
	HLA-SW186	9/18/2018	5193835.7727	667896.8972	6	896.8	0.4	
	HLA-SW325	10/12/2018	5193800.2634	667966.0611	4	896.6	0.2	
	HLA-SW329	10/12/2018	5193816.4691	667965.4658	4	897.0	0.4	

Table 4
Analytical Soil Sample Summary
Heartland Apartments Property - Fargo MGP Site
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Sample Type	Sample Identification ¹	Date	GPS Coordinates ²		Sample Depth	Sample Elevation	Organic Headspace	Comments
			Northing (meters)	Easting (meters)	(feet bgs)	(feet MSL)	(ppm)	
Backfill Soil Documentation Sample Summary								
Clean Soil from Offsite Source	GRAB-1	6/1/2018	--	--	NA		--	General fill, from 209 Wall Street Ave. NW in Moorhead, MN
	GRAB-1	6/11/2018	--	--	NA		--	Class III fill, from Strata Pit in Moorhead, MN
	GRAB-2	6/1/2018	--	--	NA		--	General fill, from 209 Wall Street Ave. NW in Moorhead, MN
	GRAB-2	6/11/2018	--	--	NA		--	Class III fill, from Strata Pit in Moorhead, MN
	GRAB-3	6/1/2018	--	--	NA		--	General fill, from 209 Wall Street Ave. NW in Moorhead, MN
	GRAB-3	6/11/2018	--	--	NA		--	Class III fill, from Strata Pit in Moorhead, MN
	GRAB-4	6/11/2018	--	--	NA		--	General fill, from Strata at 2660 16th Ave S in Moorhead, MN
	GRAB-5	6/11/2018	--	--	NA		--	General fill, from Strata at 2660 16th Ave S in Moorhead, MN
	GRAB-6	6/11/2018	--	--	NA		--	General fill, from Strata at 2660 16th Ave S in Moorhead, MN
	GRAB-7	6/11/2018	--	--	NA		--	Topsoil, from Strata Pit in Dilworth, MN
	GRAB-8	6/11/2018	--	--	NA		--	Topsoil, from Strata Pit in Dilworth, MN
	GRAB-9	6/11/2018	--	--	NA		--	Topsoil, from Strata Pit in Dilworth, MN
	GRAB-10	6/11/2018	--	--	NA		--	Class V fill, from Strata at 200th St N. in Ullen MN
	GRAB-11	6/11/2018	--	--	NA		--	Class V fill, from Strata at 200th St N. in Ullen MN
	GRAB-12	6/11/2018	--	--	NA		--	Class V fill, from Strata at 200th St N. in Ullen MN
GRAB-13	6/11/2018	--	--	NA		--	General fill, from watershed area in Moorhead, MN	
GRAB-14	6/11/2018	--	--	NA		--	General fill, from watershed area in Moorhead, MN	
GRAB-15	6/11/2018	--	--	NA		--	General fill, from watershed area in Moorhead, MN	

Notes:

1 - All samples analyzed for VOCs, SVOCs, GRO, DRO except where noted in comments.

2 - UTM coordinates referenced to UTM14N NAD83.

VOCs - Volatile Organic Compounds

GRO - Gasoline Range Organics

SVOCs - Semivolatile Organic Compounds

DRO - Diesel Range Organics

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS07	HLA-BS11	HLA-BS19	HLA-BS20	HLA-BS27	HLA-BS29	HLA-BS35	HLA-BS36	HLA-BS38	HLA-BS39	HLA-BS46		HLA-BS51	HLA-BS58	HLA-BS63	HLA-BS64	HLA-BS67	HLA-BS69	HLA-BS70	HLA-BS73	HLA-BS75	HLA-BS76	HLA-BS86	HLA-BS89	HLA-BS93	
Date			7/30/2018	7/30/2018	7/30/2018	7/30/2018	8/01/2018	8/01/2018	8/02/2018	8/02/2018	8/03/2018	8/03/2018	8/07/2018			8/07/2018	8/07/2018	8/08/2018	8/08/2018	8/08/2018	8/08/2018	8/08/2018	8/09/2018	8/09/2018	8/09/2018	8/10/2018	8/15/2018	8/15/2018
Depth			6.5 ft	5 ft	5 ft	5 ft	10 ft	14 ft	7 ft	7 ft	10 ft	9 ft	6 ft	6 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	
Parameter	Sample Type		N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	
Semivolatile Organic Compounds		Units																										
NTE ⁽⁴⁾																												
1,2,4-Trichlorobenzene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
1,2-Dichlorobenzene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
1,3-Dichlorobenzene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
1,4-Dichlorobenzene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2,2'-oxybis (1-chloropropane)	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2,3,4,6-Tetrachlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4,5-Trichlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4,6-Trichlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4-Dichlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4-Dimethylphenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	15	10	< 5.4	< 1.3	< 0.91	5.8	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4-Dinitrophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,4-Dinitrotoluene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2,6-Dichlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2,6-Dinitrotoluene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2-Chloronaphthalene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2-Chlorophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2-Methyl-4,6-dinitrophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2-Methylnaphthalene	mg/kg	4400	< 0.47	< 0.50	< 0.50	< 0.52	49	54	< 2.7	< 0.66	< 0.45	43	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2-Methylphenol (o-cresol)	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	9.3	8.2	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
2-Nitroaniline	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
2-Nitrophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
3,3'-Dichlorobenzidine	mg/kg		< 2.3	< 2.4	< 2.4	< 2.5	< 12	< 13	< 13	< 3.2	< 2.2	< 13	< 2.5	< 2.4	< 2.4	< 2.3	< 2.4	< 2.4	< 2.3	< 2.4	< 2.4	< 2.3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.5	
3,4-Methylphenol (m,p cresols)	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	11	15	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
3-Nitroaniline	mg/kg		< 0.63	< 0.67	< 0.67	< 0.69	< 3.4	< 3.7	< 3.5	< 0.88	< 0.60	< 3.6	< 0.68	< 0.67	< 0.66	< 0.63	< 0.65	< 0.66	< 0.64	< 0.66	< 0.65	< 0.64	< 0.65	< 0.65	< 0.66	< 0.67	< 0.69	
4-Bromophenyl phenyl ether	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
4-Chloro-3-methylphenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
4-Chloroaniline	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
4-Chlorophenyl phenyl ether	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
4-Nitroaniline	mg/kg		< 0.60	< 0.64	< 0.64	< 0.66	< 3.3	< 3.5	< 3.4	< 0.84	< 0.57	< 3.4	< 0.65	< 0.64	< 0.63	< 0.60	< 0.62	< 0.63	< 0.62	< 0.63	< 0.62	< 0.62	< 0.62	< 0.62	< 0.63	< 0.64	< 0.66	
4-Nitrophenol	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
Acenaphthene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	7.3	7.2	< 2.7	< 0.66	< 0.45	4.3	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
Acenaphthylene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	20	27	< 2.7	< 0.66	< 0.45	5.8	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
Aniline	mg/kg		< 0.96	< 1.0	< 1.0	< 1.1	< 5.2	< 5.6	< 5.4	< 1.3	< 0.91	< 5.5	< 1.0	< 1.0	< 1.0	< 0.96	< 0.99	< 1.0	< 0.98	< 1.0	< 0.99	< 0.98	< 0.98	< 0.99	< 1.0	< 1.0	< 1.1	
Anthracene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	23	30	< 2.7	< 0.66	< 0.45	22	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
Azobenzene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	< 2.6	< 2.8	< 2.7	< 0.66	< 0.45	< 2.7	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.50	< 0.50	< 0.52	
Benz(a)anthracene	mg/kg		< 0.47	< 0.50	< 0.50	< 0.52	17 *	25	< 2.7	< 0.66	< 0.45	23	< 0.51	< 0.50	< 0.49	< 0.47	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.48	< 0.49	< 0.49	< 0.5			

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS07	HLA-BS11	HLA-BS19	HLA-BS20	HLA-BS27	HLA-BS29	HLA-BS35	HLA-BS36	HLA-BS38	HLA-BS39	HLA-BS46		HLA-BS51	HLA-BS58	HLA-BS63	HLA-BS64	HLA-BS67	HLA-BS69	HLA-BS70	HLA-BS73	HLA-BS75	HLA-BS76	HLA-BS86	HLA-BS89	HLA-BS93
Depth			7/30/2018	7/30/2018	7/30/2018	7/30/2018	8/01/2018	8/01/2018	8/02/2018	8/02/2018	8/03/2018	8/03/2018	8/07/2018			8/07/2018	8/07/2018	8/08/2018	8/08/2018	8/08/2018	8/08/2018	8/09/2018	8/09/2018	8/09/2018	8/10/2018	8/15/2018	8/15/2018
Parameter	Sample Type		6.5 ft N	5 ft N	5 ft N	5 ft N	10 ft N	14 ft N	7 ft N	7 ft N	10 ft N	9 ft N	6 ft N	6 ft FD	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N
Volatile Organic Compounds																											
1,1,1,2-Tetrachloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1,1-Trichloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1,2,2-Tetrachloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1,2-Trichloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1-Dichloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1-Dichloroethylene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,1-Dichloropropene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2,3-Trichlorobenzene	mg/kg		< 0.68	< 0.65	< 0.66	< 0.68	< 0.69	< 0.71	< 0.69	< 0.88	< 0.58	< 0.65	< 0.70	< 0.64	< 0.61	< 0.67	< 0.68	< 0.67	< 0.68	< 0.67	< 0.67	< 0.67	< 0.67	< 0.68	< 0.67	< 0.66	< 0.68
1,2,3-Trichloropropane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2,4-Trichlorobenzene	mg/kg		< 0.68	< 0.65	< 0.66	< 0.68	< 0.69	< 0.71	< 0.69	< 0.88	< 0.58	< 0.65	< 0.70	< 0.64	< 0.61	< 0.67	< 0.68	< 0.67	< 0.68	< 0.67	< 0.67	< 0.67	< 0.67	< 0.68	< 0.67	< 0.66	< 0.68
1,2,4-Trimethylbenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	32	3.1	0.64	< 0.35	< 0.23	11	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		< 0.68	< 0.65	< 0.66	< 0.68	< 0.69	< 0.71	< 0.69	< 0.88	< 0.58	< 0.65	< 0.70	< 0.64	< 0.61	< 0.67	< 0.68	< 0.67	< 0.68	< 0.67	< 0.67	< 0.67	< 0.68	< 0.67	< 0.66	< 0.68	< 0.68
1,2-Dibromoethane (EDB)	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dichlorobenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dichloroethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dichloroethylene, cis	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dichloroethylene, trans	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,2-Dichloropropane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,3,5-Trimethylbenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	13	1.2	< 0.28	< 0.35	< 0.23	4.4	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,3-Dichlorobenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,3-Dichloropropane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,3-Dichloropropene, cis	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,3-Dichloropropene, trans	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
1,4-Dichlorobenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
2,2-Dichloropropane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Acetone	mg/kg		< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.8	< 1.2	< 1.3	< 1.4	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4
Allyl chloride	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Benzene	mg/kg	810	< 0.27	< 0.26	< 0.26	< 0.27	18	6.5	< 0.28	< 0.35	< 0.23	25	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Bromobenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Bromochloromethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Bromodichloromethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Bromoform	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Bromomethane	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Butylbenzene	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	1.9	< 0.29	< 0.28	< 0.35	< 0.23	0.29	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27
Butylbenzene, sec	mg/kg		< 0.27	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.35	< 0.23	< 0.26	< 0.28	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location		HLA-BS94 ⁽²⁾	HLA-BS95	HLA-BS103		HLA-BS108	HLA-BS112	HLA-BS114		HLA-BS116	HLA-BS120	HLA-BS121	HLA-BS122	HLA-BS123	HLA-BS124	HLA-BS127	HLA-BS130	HLA-BS131	HLA-BS134	HLA-BS135	HLA-BS136	HLA-BS137	HLA-BS138	HLA-BS140	HLA-BS147	
Date Depth		8/15/2018	8/15/2018	8/16/2018		8/17/2018	8/17/2018	8/20/2018		8/20/2018	8/21/2018	8/22/2018	8/22/2018	8/22/2018	8/22/2018	8/23/2018	9/06/2018	9/06/2018	9/07/2018	9/07/2018	9/07/2018	9/08/2018	9/10/2018	9/10/2018	9/11/2018	
Sample Type		9 ft N	15 ft N	8 ft N	8 ft FD	8 ft N	8 ft N	12 ft N	12 ft FD	8 ft N	12 ft N	12 ft N	8 ft N	12 ft N	12 ft N	9 ft N	8 ft N	9 ft N	12 ft N	12 ft N	8 ft N	8 ft N	8 ft N	8 ft N	12 ft N	
Parameter	Units	NTE ⁽¹⁾																								
Semivolatile Organic Compounds																										
1,2,4-Trichlorobenzene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
1,2-Dichlorobenzene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
1,3-Dichlorobenzene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
1,4-Dichlorobenzene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
2,2'-oxybis (1-chloropropane)	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	--	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
2,3,4,6-Tetrachlorophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2,4,5-Trichlorophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2,4,6-Trichlorophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2,4-Dichlorophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2,4-Dimethylphenol	mg/kg		< 1.1	< 1.1	45	50	< 40	46	5.3	6.3	8.4	9.7	15	< 5.1	3.0	29	< 1.1	29	5.1	38	57	5.9	17	< 5.1	9.6	< 1.1
2,4-Dinitrophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2,4-Dinitrotoluene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
2-Chloronaphthalene	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
2-Chlorophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2-Methyl-4,6-dinitrophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
2-Methylnaphthalene	mg/kg	4400	< 0.53	< 0.55	55	69	68	57	2.9	3.7	14	7.3	10	33	3.2	68	< 0.54	56	14	120	70	31	120	22	43	< 0.52
2-Methylphenol (o-cresol)	mg/kg		< 1.1	< 1.1	44	46	42	55	12	13	4.4	15	29	< 5.1	4.0	44	< 1.1	23	< 4.0	35	68	6.0	21	< 5.1	7.0	< 1.1
2-Nitroaniline	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
2-Nitrophenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 5.1	< 1.1	< 11	< 1.1	< 4.7	< 4.0	< 5.2	< 5.5	< 5.0	< 5.0	< 5.1	< 5.5	< 1.1
3,3'-Dichlorobenzidine	mg/kg		< 2.6	< 2.7	< 5.0	< 4.8	< 4.7	< 5.0	< 2.4	< 2.5	< 2.4	< 2.7	< 2.7	< 12	< 2.7	< 25	< 2.6	< 11	< 9.6	< 12	< 13	< 12	< 12	< 12	< 13	< 2.5
3,4-Methylphenol (m,p cresols)	mg/kg		< 1.1	< 1.1	85	84	82	110	25	27	3.4	10	69	< 5.1	6.4	96	< 1.1	44	7.4	77	190	11	47	< 5.1	13	< 1.1
3-Nitroaniline	mg/kg		< 0.70	< 0.73	< 1.4	< 1.3	< 1.3	< 1.4	< 0.66	< 0.68	< 0.67	< 0.74	< 0.75	< 3.3	< 0.73	< 7.0	< 0.71	< 3.1	< 2.6	< 3.4	< 3.6	< 3.3	< 3.3	< 3.3	< 3.6	< 0.70
4-Bromophenyl phenyl ether	mg/kg		< 0.53	< 0.55	< 1.0	< 0.98	< 0.98	< 1.0	< 0.50	< 0.51	< 0.51	< 0.55	< 0.56	< 2.5	< 0.55	< 5.2	< 0.54	< 2.3	< 2.0	< 2.6	< 2.7	< 2.5	< 2.5	< 2.5	< 2.7	< 0.52
4-Chloro-3-methylphenol	mg/kg		< 1.1	< 1.1	< 2.1	< 2.0	< 2.0	< 2.1	<																	

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location Date Depth			HLA-BS94 ⁽²⁾ 8/15/2018 9 ft	HLA-BS95 8/15/2018 15 ft	HLA-BS103 8/16/2018 8 ft 8 ft FD		HLA-BS108 8/17/2018 8 ft	HLA-BS112 8/17/2018 8 ft	HLA-BS114 8/20/2018 12 ft 12 ft FD		HLA-BS116 8/20/2018 8 ft	HLA-BS120 8/21/2018 12 ft	HLA-BS121 8/22/2018 12 ft	HLA-BS122 8/22/2018 8 ft	HLA-BS123 8/22/2018 12 ft	HLA-BS124 8/23/2018 12 ft	HLA-BS127 9/06/2018 9 ft	HLA-BS130 9/06/2018 8 ft	HLA-BS131 9/06/2018 9 ft	HLA-BS134 9/07/2018 12 ft	HLA-BS135 9/07/2018 12 ft	HLA-BS136 9/07/2018 8 ft	HLA-BS137 9/08/2018 8 ft	HLA-BS138 9/10/2018 8 ft	HLA-BS140 9/10/2018 8 ft	HLA-BS147 9/11/2018 12 ft
Parameter	Sample Type		N	N	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds																										
1,1,1,2-Tetrachloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1,1-Trichloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1,2,2-Tetrachloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1,2-Trichloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1-Dichloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1-Dichloroethylene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,1-Dichloropropene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2,3-Trichlorobenzene	mg/kg		< 0.54	< 0.76	< 0.68	< 0.64	< 0.69	< 0.70	< 0.69	< 0.69	< 0.70	< 0.71	< 0.71	< 0.65	< 0.69	< 0.69	< 0.65	< 0.66	< 0.68	< 0.68	< 0.72	< 0.68	< 0.69	< 0.70	< 0.71	< 0.72
1,2,3-Trichloropropane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2,4-Trichlorobenzene	mg/kg		< 0.54	< 0.76	< 0.68	< 0.64	< 0.69	< 0.70	< 0.69	< 0.69	< 0.70	< 0.71	< 0.71	< 0.65	< 0.69	< 0.69	< 0.65	< 0.66	< 0.68	< 0.68	< 0.72	< 0.68	< 0.69	< 0.70	< 0.71	< 0.72
1,2,4-Trimethylbenzene	mg/kg		1.3	< 0.30	20	25	27	8.7	4.3 *	7.3 *	23	1.2	4.5	17	2.4	8.1	< 0.26	18	5.5	35	12	7.4	4.7	6.8	17	< 0.29
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		< 0.54	< 0.76	< 0.68	< 0.64	< 0.69	< 0.70	< 0.69	< 0.69	< 0.70	< 0.71	< 0.71	< 0.65	< 0.69	< 0.69	< 0.65	< 0.66	< 0.68	< 0.68	< 0.72	< 0.68	< 0.69	< 0.70	< 0.71	< 0.72
1,2-Dibromoethane (EDB)	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2-Dichlorobenzene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2-Dichloroethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2-Dichloroethylene, cis	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2-Dichloroethylene, trans	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,2-Dichloropropane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,3,5-Trimethylbenzene	mg/kg		< 0.22	< 0.30	7.8	9.8	11	3.5	1.9 *	3.3 *	8.7	0.50	1.6	6.3	0.87	3.0	< 0.26	6.7	2.1	14	4.7	2.8	1.7	2.9	6.5	< 0.29
1,3-Dichlorobenzene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,3-Dichloropropane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,3-Dichloropropene, cis	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,3-Dichloropropene, trans	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
1,4-Dichlorobenzene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
2,2-Dichloropropane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Acetone	mg/kg		< 1.1	< 1.5	< 1.4	< 1.3	< 1.4	1.5	2.5	1.7	2.4	2.0	2.4	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Allyl chloride	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Benzene	mg/kg	810	< 0.22	< 0.30	24	31	26	18	13	14	12	16	45	20	9.6	45	0.52	22	12	160	52	12	12	6.5	14	< 0.29
Bromobenzene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Bromochloromethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Bromodichloromethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Bromoform	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Bromomethane	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Butylbenzene	mg/kg		2.1	< 0.30	1.7	2.2	1.7	0.65	< 0.28	0.29	0.66	< 0.29	< 0.29	0.71	< 0.28	< 0.28	< 0.26	1.6	0.40	0.84	0.44	0.59	< 0.28	1.4	1.5	< 0.29
Butylbenzene, sec	mg/kg		1.3	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Butylbenzene, tert	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Carbon tetrachloride	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.27	< 0.28	< 0.28	< 0.29	< 0.29
Chlorobenzene	mg/kg		< 0.22	< 0.30	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29														

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

		Location	HLA-BS154	HLA-BS157	HLA-BS161	HLA-BS167	HLA-BS168	HLA-BS170	HLA-BS184	HLA-BS185	HLA-BS187	HLA-BS189	HLA-BS191	HLA-BS193	HLA-BS194	HLA-BS197	HLA-BS198	HLA-BS199	HLA-BS206	HLA-BS214	HLA-BS218	HLA-BS220	HLA-BS224	HLA-BS225	
		Date	9/12/2018	9/13/2018	9/13/2018	9/17/2018	9/17/2018	9/17/2018	9/17/2018	9/17/2018	9/18/2018	9/18/2018	9/18/2018	9/19/2018	9/19/2018	9/19/2018	9/19/2018	9/20/2018	9/24/2018	9/25/2018	9/25/2018	9/25/2018	9/26/2018	9/26/2018	
		Depth	5 ft	5 ft	5 ft	8 ft	8 ft	5 ft	5 ft	5 ft	13 ft	8 ft	8 ft	8 ft	8 ft	8 ft	8 ft	5 ft	5 ft	5 ft	5 ft	5 ft	6 ft	6 ft	
Parameter	Sample Type		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Semivolatile Organic Compounds	Units	NTE ⁽¹⁾																							
1,2,4-Trichlorobenzene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
1,2-Dichlorobenzene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
1,3-Dichlorobenzene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
1,4-Dichlorobenzene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2,2'-oxybis (1-chloropropane)	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2,3,4,6-Tetrachlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,4,5-Trichlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,4,6-Trichlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,4-Dichlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,4-Dimethylphenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	7.8	80	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	3.1	47
2,4-Dinitrophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,4-Dinitrotoluene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2,6-Dichlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2,6-Dinitrotoluene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2-Chloronaphthalene	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2-Chlorophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2-Methyl-4,6-dinitrophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
2-Methylnaphthalene	mg/kg	4400	1.4	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	19	46	180	18	11	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	3.9	45
2-Methylphenol (o-cresol)	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	46	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	2.4	36
2-Nitroaniline	mg/kg		< 0.50	< 0.55	< 0.48	< 0.52	< 0.52	< 0.52	< 0.51	< 0.49	< 0.53	< 2.3	< 2.5	< 2.5	< 2.4	< 2.2	< 2.8	< 2.5	< 0.48	< 0.48	< 0.44	< 0.53	< 0.52	< 0.52	< 2.6
2-Nitrophenol	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	< 4.5	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	< 1.0	< 5.2
3,3'-Dichlorobenzidine	mg/kg		< 2.4	< 2.7	< 2.3	< 2.5	< 2.5	< 2.5	< 2.5	< 2.4	< 2.6	< 11	< 12	< 12	< 12	< 11	< 13	< 12	< 2.3	< 2.3	< 2.1	< 2.6	< 2.5	< 2.5	< 12
3,4-Methylphenol (m,p cresols)	mg/kg		< 1.0	< 1.1	< 0.97	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0	< 1.1	< 4.7	< 5.1	< 5.2	< 4.8	92	< 5.6	< 5.0	< 0.97	< 0.97	< 0.89	< 1.1	< 1.1	1.1	72
3-Nitroaniline	mg/kg		< 0.67	< 0.74	< 0.64	< 0.69	< 0.69	< 0.70	< 0.67	< 0.66	< 0.71														

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS154	HLA-BS157	HLA-BS161	HLA-BS167	HLA-BS168	HLA-BS170	HLA-BS184	HLA-BS185	HLA-BS187	HLA-BS189	HLA-BS191	HLA-BS193	HLA-BS194	HLA-BS197	HLA-BS198	HLA-BS199	HLA-BS206	HLA-BS214	HLA-BS218	HLA-BS220	HLA-BS224	HLA-BS225		
Date			9/12/2018	9/13/2018	9/13/2018	9/17/2018	9/17/2018	9/17/2018	9/17/2018	9/17/2018	9/18/2018	9/18/2018	9/18/2018	9/19/2018	9/19/2018	9/19/2018	9/19/2018	9/19/2018	9/20/2018	9/24/2018	9/25/2018	9/25/2018	9/26/2018	9/26/2018		
Depth			5 ft	5 ft	5 ft	8 ft	8 ft	5 ft	5 ft	5 ft	13 ft	8 ft	8 ft	8 ft	8 ft	8 ft	8 ft	5 ft	5 ft	5 ft	5 ft	5 ft	6 ft	6 ft		
Parameter	Sample Type		N	N	N	N	N	N	N	N	N	8 ft	8 ft	N	N	N	N	N	N	N	N	N	N	N		
Volatile Organic Compounds																										
1,1,1,2-Tetrachloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1,1-Trichloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1,2,2-Tetrachloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1,2-Trichloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1-Dichloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1-Dichloroethylene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,1-Dichloropropene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,2,3-Trichlorobenzene	mg/kg		< 0.67	< 0.68	< 0.68	< 0.65	< 0.68	< 0.68	< 0.68	< 0.68	< 0.70	< 0.69	< 0.62	< 0.71	< 0.68	< 0.67	< 0.74	< 0.68	< 0.67	< 0.68	< 0.67	< 0.69	< 0.68	< 0.69		
1,2,3-Trichloropropane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28		
1,2,4-Trichlorobenzene	mg/kg		< 0.67	< 0.68	< 0.68	< 0.65	< 0.68	< 0.68	< 0.68	< 0.68	< 0.70	< 0.69	< 0.62	< 0.71	< 0.68	< 0.67	< 0.74	< 0.68	< 0.67	< 0.68	< 0.67	< 0.69	< 0.68	< 0.69		
1,2,4-Trimethylbenzene	mg/kg		1.9	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	3.4	13	38	18	4.8	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	5.6		
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		< 0.67	< 0.68	< 0.68	< 0.65	< 0.68	< 0.68	< 0.68	< 0.68	< 0.70	< 0.69	< 0.62	< 0.71	< 0.68	< 0.67	< 0.74	< 0.68	< 0.67	< 0.68	< 0.67	< 0.69	< 0.68	< 0.69		
1,2-Dibromoethane (EDB)	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,2-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,2-Dichloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,2-Dichloroethylene, cis	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,2-Dichloroethylene, trans	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,2-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,3,5-Trimethylbenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	1.1	4.5	15	7.6	2.0	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	2.1		
1,3-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,3-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,3-Dichloropropene, cis	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,3-Dichloropropene, trans	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
1,4-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
2,2-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Acetone	mg/kg		< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4			
Allyl chloride	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Benzene	mg/kg	810	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	5.2	19	65	1.8	0.91	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	0.87		
Bromobenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Bromochloromethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Bromodichloromethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Bromoform	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Bromomethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Butylbenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	0.45	1.8	1.5	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Butylbenzene, sec	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Butylbenzene, tert	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Carbon tetrachloride	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Chlorobenzene	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Chlorodibromomethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Chloroethane	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28			
Chloroform	mg/kg		< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.25	< 0.29	< 0.27	< 0.27	<									

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS228	HLA-BS229	HLA-BS232	HLA-BS234	HLA-BS241	HLA-BS244	HLA-BS250	HLA-BS251	HLA-BS252	HLA-BS258	HLA-BS262	HLA-BS264	HLA-BS266	HLA-BS269	HLA-BS270	HLA-BS271	HLA-BS272	HLA-BS276	HLA-BS277	HLA-BS278	HLA-BS279	HLA-BS281	
Date			9/26/2018	9/26/2018	9/26/2018	9/26/2018	9/27/2018	9/28/2018	9/28/2018	9/28/2018	9/29/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/02/2018	10/02/2018	10/02/2018	10/03/2018	10/03/2018	10/04/2018	10/04/2018	10/04/2018	
Depth			6 ft	6 ft	6 ft	6 ft	5.5 ft	10 ft	7 ft	9 ft	9 ft	5 ft	5 ft	8 ft	8 ft	9.5 ft	5 ft	9.5 ft	8 ft	8 ft	8 ft	8 ft	8 ft	5 ft	
Parameter	Sample Type	NTE ^(a)	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Semivolatile Organic Compounds			Units																						
1,2,4-Trichlorobenzene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
1,2-Dichlorobenzene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
1,3-Dichlorobenzene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
1,4-Dichlorobenzene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2,2'-oxybis (1-chloropropane)	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2,3,4,6-Tetrachlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4,5-Trichlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4,6-Trichlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4-Dichlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4-Dimethylphenol	mg/kg		3.0	2.7	92	< 1.0	11	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4-Dinitrophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,4-Dinitrotoluene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2,6-Dichlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2,6-Dinitrotoluene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2-Chloronaphthalene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2-Chlorophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2-Methyl-4,6-dinitrophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2-Methylnaphthalene	mg/kg	4400	0.76	0.90	140	< 0.50	40	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2-Methylphenol (o-cresol)	mg/kg		< 0.99	< 0.98	46	< 1.0	4.9	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
2-Nitroaniline	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
2-Nitrophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
3,3'-Dichlorobenzidine	mg/kg		< 2.4	< 2.3	< 11	< 2.4	< 10	< 2.7	< 2.4	< 2.4	< 2.5	< 2.7	< 2.4	< 2.3	< 2.6	< 2.6	< 2.6	< 2.3	< 2.4	< 2.3	< 2.3	< 2.6	< 2.3	< 2.6	< 2.4
3,4-Methylphenol (m,p cresols)	mg/kg		3.2	2.7	96	< 1.0	7.6	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
3-Nitroaniline	mg/kg		< 0.65	< 0.64	< 3.2	< 0.67	< 2.8	< 0.74	< 0.67	< 0.65	< 0.70	< 0.73	< 0.65	< 0.67	< 0.63	< 0.70	< 0.73	< 0.63	< 0.67	< 0.63	< 0.63	< 0.70	< 0.63	< 0.71	< 0.66
4-Bromophenyl phenyl ether	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
4-Chloro-3-methylphenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
4-Chloroaniline	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
4-Chlorophenyl phenyl ether	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
4-Nitroaniline	mg/kg		< 0.62	< 0.61	< 3.0	< 0.64	< 2.7	< 0.71	< 0.64	< 0.62	< 0.67	< 0.70	< 0.62	< 0.64	< 0.60	< 0.67	< 0.70	< 0.60	< 0.64	< 0.60	< 0.60	< 0.67	< 0.61	< 0.67	< 0.63
4-Nitrophenol	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
Acenaphthene	mg/kg		< 0.49	< 0.48	21	< 0.50	12	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Acenaphthylene	mg/kg		< 0.49	< 0.48	69	< 0.50	21	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Aniline	mg/kg		< 0.99	< 0.98	< 4.8	< 1.0	< 4.2	< 1.1	< 1.0	< 0.99	< 1.1	< 1.1	< 0.99	< 1.0	< 0.96	< 1.1	< 1.1	< 0.96	< 1.0	< 0.96	< 0.96	< 1.1	< 0.97	< 1.1	< 1.0
Anthracene	mg/kg		< 0.49	< 0.48	68	< 0.50	39	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Azobenzene	mg/kg		< 0.49	< 0.48	< 2.4	< 0.50	< 2.1	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Benz(a)anthracene	mg/kg		< 0.49	< 0.48	42	< 0.50	21	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Benzdine	mg/kg		< 3.7	< 3.6	< 18	< 3.8	< 16	< 4.2	< 3.8	< 3.7	< 4.0	< 4.2	< 3.7	< 3.8	< 3.6	< 4.0	< 4.1	< 3.6	< 3.8	< 3.6	< 3.6	< 4.0	< 3.6	< 4.0	< 3.7
Benzo(a)pyrene	mg/kg	14	< 0.49	< 0.48	33	< 0.50	15	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	< 0.47	< 0.50	< 0.47	< 0.47	< 0.53	< 0.48	< 0.53	< 0.49
Benzo(b)fluoranthene	mg/kg		< 0.49	< 0.48	42	< 0.50	20	< 0.56	< 0.50	< 0.49	< 0.52	< 0.55	< 0.49	< 0.50	< 0.47	< 0.53	< 0.55	<							

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS228 9/26/2018		HLA-BS229 9/26/2018	HLA-BS232 9/26/2018	HLA-BS234 9/26/2018	HLA-BS241 9/27/2018	HLA-BS244 9/28/2018	HLA-BS250 9/28/2018	HLA-BS251 9/28/2018	HLA-BS252 9/29/2018	HLA-BS258 10/01/2018	HLA-BS262 10/01/2018	HLA-BS264 10/01/2018	HLA-BS266 10/01/2018	HLA-BS269 10/02/2018	HLA-BS270 10/02/2018	HLA-BS271 10/02/2018	HLA-BS272 10/03/2018	HLA-BS276 10/03/2018	HLA-BS277 10/04/2018	HLA-BS278 10/04/2018	HLA-BS279 10/04/2018	HLA-BS281 10/04/2018
Date			6 ft		6 ft	6 ft	6 ft	5.5 ft	10 ft	7 ft	9 ft	9 ft	5 ft	5 ft	8 ft	8 ft	9.5 ft	5 ft	9.5 ft	8 ft	8 ft	8 ft	8 ft	5 ft	
Depth			N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Sample Type																									
Parameter																									
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1,1-Trichloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1,2,2-Tetrachloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1,2-Trichloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1-Dichloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1-Dichloroethylene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,1-Dichloropropene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2,3-Trichlorobenzene	mg/kg		< 0.68	< 0.68	< 0.62	< 0.62	< 0.62	< 0.64	< 0.69	< 0.68	< 0.71	< 0.65	< 0.67	< 0.69	< 0.71	< 0.64	< 0.72	< 0.68	< 0.69	< 0.71	< 0.71	< 0.65	< 0.68	< 0.69	
1,2,3-Trichloropropane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2,4-Trichlorobenzene	mg/kg		< 0.68	< 0.68	< 0.62	< 0.62	< 0.62	< 0.64	< 0.69	< 0.68	< 0.71	< 0.65	< 0.67	< 0.69	< 0.71	< 0.64	< 0.72	< 0.68	< 0.69	< 0.71	< 0.71	< 0.65	< 0.68	< 0.69	
1,2,4-Trimethylbenzene	mg/kg		0.28	< 0.27	23	< 0.27	< 0.25	7.0	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		< 0.68	< 0.68	< 0.62	< 0.62	< 0.62	< 0.64	< 0.69	< 0.68	< 0.71	< 0.65	< 0.67	< 0.69	< 0.71	< 0.64	< 0.72	< 0.68	< 0.69	< 0.71	< 0.71	< 0.65	< 0.68	< 0.69	
1,2-Dibromoethane (EDB)	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dichloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dichloroethylene, cis	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dichloroethylene, trans	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,2-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,3,5-Trimethylbenzene	mg/kg		< 0.27	< 0.27	8.4	< 0.25	2.6	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,3-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,3-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,3-Dichloropropene, cis	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,3-Dichloropropene, trans	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
1,4-Dichlorobenzene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
2,2-Dichloropropane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Acetone	mg/kg		< 1.4	< 1.4	< 1.2	< 1.2	< 1.2	< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	
Allyl chloride	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Benzene	mg/kg	810	0.63	0.30	26	< 0.25	5.4	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Bromobenzene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Bromochloromethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Bromodichloromethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Bromoform	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Bromomethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Butylbenzene	mg/kg		< 0.27	< 0.27	2.0	< 0.25	0.82	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Butylbenzene, sec	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Butylbenzene, tert	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Carbon tetrachloride	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Chlorobenzene	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Chlorodibromomethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	< 0.28	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.29	< 0.29	< 0.26	< 0.27	< 0.28	
Chloroethane	mg/kg		< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.27	< 0.29	< 0.26	< 0.27	<											

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

			Location Date	HLA-BS284 10/05/2018	HLA-BS285 10/05/2018	HLA-BS286 10/05/2018	HLA-BS288 10/05/2018	HLA-BS295 10/06/2018	HLA-BS298 10/08/2018	HLA-BS299 10/08/2018	HLA-BS302 10/08/2018	HLA-BS304 10/08/2018	HLA-BS305 10/09/2018	HLA-BS309 10/09/2018	HLA-BS312 10/09/2018	HLA-BS314 10/09/2018	HLA-BS315 10/10/2018	HLA-BS319 10/11/2018	HLA-BS324 10/11/2018	HLA-BS327 10/12/2018	HLA-BS334 10/12/2018	HLA-BS336 10/15/2018	HLA-BS337 10/15/2018	HLA-BS340 10/16/2018	HLA-BS343 10/16/2018
			Depth	6 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5.5 ft	8 ft	5 ft	6 ft	5 ft	8 ft	5 ft	6 ft	5 ft	5 ft
Parameter	Sample Type		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Semivolatile Organic Compounds			Units																						
1,2,4-Trichlorobenzene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
1,2-Dichlorobenzene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
1,3-Dichlorobenzene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
1,4-Dichlorobenzene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2,2'-oxybis (1-chloropropane)	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2,3,4,6-Tetrachlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4,5-Trichlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4,6-Trichlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4-Dichlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4-Dimethylphenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4-Dinitrophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,4-Dinitrotoluene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2,6-Dichlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2,6-Dinitrotoluene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2-Chloronaphthalene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2-Chlorophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2-Methyl-4,6-dinitrophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2-Methylnaphthalene	mg/kg	4400		< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	1.1	38	< 0.52	4.4
2-Methylphenol (o-cresol)	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
2-Nitroaniline	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
2-Nitrophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
3,3'-Dichlorobenzidine	mg/kg			< 2.2	< 2.4	< 2.2	< 2.4	< 2.3	< 2.4	< 2.4	< 2.4	< 2.3	< 2.4	< 2.4	< 2.3	< 2.6	< 2.5	< 2.5	< 2.5	< 2.4	< 2.3	< 2.4	< 2.4	< 2.5	< 2.3
3,4-Methylphenol (m,p cresols)	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
3-Nitroaniline	mg/kg			< 0.61	< 0.65	< 0.60	< 0.66	< 0.64	< 0.65	< 0.65	< 0.66	< 0.66	< 0.65	< 0.66	< 0.64	< 0.70	< 0.70	< 0.69	< 0.68	< 0.67	< 0.64	< 0.67	< 0.67	< 0.69	< 0.64
4-Bromophenyl phenyl ether	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
4-Chloro-3-methylphenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
4-Chloroaniline	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
4-Chlorophenyl phenyl ether	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
4-Nitroaniline	mg/kg			< 0.58	< 0.63	< 0.58	< 0.63	< 0.61	< 0.62	< 0.62	< 0.63	< 0.61	< 0.62	< 0.63	< 0.61	< 0.67	< 0.67	< 0.66	< 0.65	< 0.64	< 0.61	< 0.64	< 0.64	< 0.66	< 0.61
4-Nitrophenol	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
Acenaphthene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	1.3	< 0.52	< 0.48
Acenaphthylene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	0.54	13	< 0.52	1.4
Aniline	mg/kg			< 0.93	< 1.0	< 0.92	< 1.0	< 0.98	< 1.0	< 0.98	< 1.0	< 0.97	< 0.99	< 1.0	< 0.97	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.97	< 1.0	< 1.0	< 1.0	< 0.98
Anthracene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	4.9	< 0.52	< 0.48
Azobenzene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	< 0.50	< 0.52	< 0.48
Benz(a)anthracene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	2.4	< 0.52	< 0.48
Benzdine	mg/kg			< 3.5	< 3.7	< 3.4	< 3.7	< 3.6	< 3.7	< 3.7	< 3.7	< 3.6	< 3.7	< 3.8	< 3.6	< 4.0	< 4.0	< 3.9	< 3.9	< 3.8	< 3.6	< 3.8	< 3.8	< 3.9	< 3.7
Benzo(a)pyrene	mg/kg	14		< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	1.7	< 0.52	< 0.48
Benzo(b)fluoranthene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48	< 0.50	1.7	< 0.52	< 0.48
Benzo(g,h,i)perylene	mg/kg			< 0.46	< 0.49	< 0.45	< 0.49	< 0.48	< 0.49	< 0.49	< 0.49	< 0.48	< 0.49	< 0.50	< 0.48	< 0.53	< 0.52	< 0.52	< 0.51	< 0.50	< 0.48</				

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

			Location	HLA-BS284	HLA-BS285	HLA-BS286	HLA-BS288	HLA-BS295		HLA-BS298	HLA-BS299	HLA-BS302	HLA-BS304	HLA-BS305	HLA-BS309	HLA-BS312	HLA-BS314	HLA-BS315	HLA-BS319	HLA-BS324	HLA-BS327	HLA-BS334	HLA-BS336	HLA-BS337	HLA-BS340	HLA-BS343
			Date	10/05/2018	10/05/2018	10/05/2018	10/05/2018	10/06/2018		10/08/2018	10/08/2018	10/09/2018	10/08/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/10/2018	10/11/2018	10/12/2018	10/12/2018	10/12/2018	10/15/2018	10/16/2018	10/16/2018
			Depth	6 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5.5 ft	8 ft	5.5 ft	6 ft	5 ft	8 ft	5 ft	6 ft	5 ft	5 ft
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter																										
Volatile Organic Compounds																										
1,1,1,2-Tetrachloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1,1-Trichloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1,2,2-Tetrachloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1,2-Trichloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1-Dichloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1-Dichloroethylene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,1-Dichloropropene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2,3-Trichlorobenzene	mg/kg			< 0.64	< 0.62	< 0.68	< 0.68	< 0.68	< 0.68	< 0.62	< 0.68	< 0.67	< 0.67	< 0.65	< 0.68	< 0.68	< 0.65	< 0.63	< 0.68	< 0.68	< 0.68	< 0.64	< 0.62	< 0.70	< 0.67	< 0.68
1,2,3-Trichloropropane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2,4-Trichlorobenzene	mg/kg			< 0.64	< 0.62	< 0.68	< 0.68	< 0.68	< 0.68	< 0.62	< 0.68	< 0.67	< 0.67	< 0.65	< 0.68	< 0.68	< 0.65	< 0.63	< 0.68	< 0.68	< 0.68	< 0.64	< 0.62	< 0.70	< 0.67	< 0.68
1,2,4-Trimethylbenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	0.38	< 0.25	4.3	< 0.27	0.81
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg			< 0.64	< 0.62	< 0.68	< 0.68	< 0.68	< 0.68	< 0.62	< 0.68	< 0.67	< 0.67	< 0.65	< 0.68	< 0.68	< 0.65	< 0.63	< 0.68	< 0.68	< 0.68	< 0.64	< 0.62	< 0.70	< 0.67	< 0.68
1,2-Dibromoethane (EDB)	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2-Dichlorobenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2-Dichloroethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2-Dichloroethylene, cis	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2-Dichloroethylene, trans	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,2-Dichloropropane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,3,5-Trimethylbenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	1.5	< 0.27	< 0.27
1,3-Dichlorobenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,3-Dichloropropane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,3-Dichloropropene, cis	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,3-Dichloropropene, trans	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
1,4-Dichlorobenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
2,2-Dichloropropane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Acetone	mg/kg			< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.2	< 1.4	< 1.3	< 1.4
Allyl chloride	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Benzene	mg/kg	810		< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	0.51	< 0.25	5.3	< 0.27	0.95
Bromobenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Bromochloromethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Bromodichloromethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Bromoform	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Bromomethane	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Butylbenzene	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Butylbenzene, sec	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Butylbenzene, tert	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.27	< 0.27
Carbon tetrachloride	mg/kg			< 0.26	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	< 0.25	< 0.27	< 0.27	< 0.27	< 0.26												

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS345	HLA-BS347	HLA-BS349	HLA-BS352	HLA-BS354	HLA-BS358	HLA-BS361	HLA-BS366	HLA-BS369	HLA-BS371	HLA-BS374	HLA-BS379	HLA-BS381	HLA-BS383	HLA-BS386	HLA-BS388	HLA-SW186	HLA-SW325	HLA-SW329	HLA-SW97	HLA-SW99	
Date			10/16/2018	10/17/2018	10/17/2018	10/17/2018	10/18/2018	10/18/2018	10/19/2018	10/19/2018	10/20/2018	10/22/2018	10/22/2018	10/23/2018	10/23/2018	10/23/2018	10/25/2018	10/25/2018	10/26/2018	9/18/2018	10/12/2018	10/12/2018	8/15/2018	8/15/2018
Depth			8 ft	8 ft	8 ft	5 ft	6 ft	5 ft	5 ft	9 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	6 ft	4 ft	4 ft	9 ft	9 ft	
Sample Type			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Parameter	Units	NTE ⁽¹⁾																						
Semivolatile Organic Compounds																								
1,2,4-Trichlorobenzene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
1,2-Dichlorobenzene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
1,3-Dichlorobenzene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
1,4-Dichlorobenzene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2,2'-oxybis (1-chloropropane)	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2,3,4,6-Tetrachlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4,5-Trichlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4,6-Trichlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4-Dichlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4-Dimethylphenol	mg/kg		90	1.9	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4-Dinitrophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,4-Dinitrotoluene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2,6-Dichlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2,6-Dinitrotoluene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2-Chloronaphthalene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2-Chlorophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2-Methyl-4,6-dinitrophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2-Methylnaphthalene	mg/kg	4400	170	110	7.0	< 0.47	4.3	39	0.51	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
2-Methylphenol (o-cresol)	mg/kg		34	1.4	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
2-Nitroaniline	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
2-Nitrophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
3,3'-Dichlorobenzidine	mg/kg		< 11	< 2.4	< 2.5	< 2.3	< 2.5	< 11	< 2.3	< 2.2	< 2.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.6	< 2.6	< 2.6	< 2.4	< 2.5	< 2.4	< 2.4	< 2.5	
3,4-Methylphenol (m,p cresols)	mg/kg		66	2.1	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
3-Nitroaniline	mg/kg		< 2.9	< 0.66	< 0.69	< 0.63	< 0.68	< 2.9	< 0.62	< 0.69	< 0.59	< 0.60	< 0.59	< 0.59	< 0.59	< 0.59	< 0.60	< 0.70	< 0.70	< 0.70	< 0.66	< 0.69	< 0.67	
4-Bromophenyl phenyl ether	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
4-Chloro-3-methylphenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
4-Chloroaniline	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
4-Chlorophenyl phenyl ether	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	< 0.52	
4-Nitroaniline	mg/kg		< 2.8	< 0.63	< 0.66	< 0.60	< 0.65	< 2.8	< 0.59	< 0.66	< 0.57	< 0.58	< 0.57	< 0.57	< 0.57	< 0.57	< 0.58	< 0.67	< 0.67	< 0.67	< 0.63	< 0.66	< 0.64	
4-Nitrophenol	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
Acenaphthene	mg/kg		23	3.1	1.9	< 0.47	1.3	3.3	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Acenaphthylene	mg/kg		35	35	7.1	< 0.47	5.1	4.9	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Aniline	mg/kg		< 4.4	< 1.0	< 1.1	< 0.96	< 1.0	< 4.5	< 0.94	< 1.0	< 0.91	< 0.92	< 0.91	< 0.91	< 0.91	< 0.91	< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	
Anthracene	mg/kg		91	13	5.1	< 0.47	3.9	8.8	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Azobenzene	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benz(a)anthracene	mg/kg		50	4.5	3.3	< 0.47	2.3	5.9	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benzdine	mg/kg		< 16	< 3.7	< 3.9	< 3.6	< 3.9	< 17	< 3.5	< 3.9	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 4.0	< 4.0	< 4.0	< 3.8	< 3.9	< 3.8	
Benzo(a)pyrene	mg/kg	14	40	3.2	2.6	< 0.47	1.7	4.4	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benzo(b)fluoranthene	mg/kg		49	3.1	3.3	< 0.47	2.1	5.5	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benzo(g,h,i)perylene	mg/kg		13	1.1	< 0.52	< 0.47	0.87	2.3	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benzo(k)fluoranthene	mg/kg		19	1.2	1.3	< 0.47	0.89	2.3	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	
Benzoic acid	mg/kg		< 2.2	< 0.49	< 0.52	< 0.47	< 0.51	< 2.2	< 0.47	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.53	< 0.53	< 0.53	< 0.50	< 0.52	< 0.50	

Table 5
Excavation Extents Analytical Soil Data
Heartland Property - Fargo MGP Site - Fargo, ND

Location			HLA-BS345	HLA-BS347	HLA-BS349	HLA-BS352	HLA-BS354	HLA-BS358	HLA-BS361	HLA-BS366	HLA-BS369	HLA-BS371	HLA-BS374	HLA-BS379	HLA-BS381		HLA-BS383	HLA-BS386	HLA-BS388	HLA-SW186	HLA-SW325	HLA-SW329	HLA-SW97	HLA-SW99
Date	Depth		10/16/2018	10/17/2018	10/17/2018	10/17/2018	10/18/2018	10/18/2018	10/19/2018	10/19/2018	10/20/2018	10/22/2018	10/22/2018	10/23/2018	10/23/2018		10/25/2018	10/25/2018	10/26/2018	9/18/2018	10/12/2018	10/12/2018	8/15/2018	8/15/2018
Parameter	Sample Type		8 ft N	8 ft N	8 ft N	5 ft N	6 ft N	5 ft N	5 ft N	9 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft N	5 ft FD	5 ft N	5 ft N	5 ft N	6 ft N	4 ft N	4 ft N	9 ft N	9 ft N
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1,1-Trichloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1,2,2-Tetrachloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1,2-Trichloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1-Dichloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1-Dichloroethylene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,1-Dichloropropene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2,3-Trichlorobenzene	mg/kg		< 0.66	< 0.65	< 0.68	< 0.68	< 0.67	< 0.74	< 0.67	< 0.65	< 0.63	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.74	< 0.68	< 0.67	< 0.71
1,2,3-Trichloropropane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2,4-Trichlorobenzene	mg/kg		< 0.66	< 0.65	< 0.68	< 0.68	< 0.67	< 0.74	< 0.67	< 0.65	< 0.63	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.74	< 0.68	< 0.67	< 0.71
1,2,4-Trimethylbenzene	mg/kg		50	37	4.3	< 0.27	< 0.27	19	< 0.27	< 0.26	< 0.25	0.49	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	32
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		< 0.66	< 0.65	< 0.68	< 0.68	< 0.67	< 0.74	< 0.67	< 0.65	< 0.63	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.64	< 0.63	< 0.68	< 0.68	< 0.74	< 0.68	< 0.67	< 0.71
1,2-Dibromoethane (EDB)	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2-Dichlorobenzene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2-Dichloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2-Dichloroethylene, cis	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2-Dichloroethylene, trans	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,2-Dichloropropane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,3,5-Trimethylbenzene	mg/kg		20	13	1.4	< 0.27	< 0.27	8.2	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	9.0
1,3-Dichlorobenzene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,3-Dichloropropane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,3-Dichloropropene, cis	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,3-Dichloropropene, trans	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
1,4-Dichlorobenzene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
2,2-Dichloropropane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Acetone	mg/kg		< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.5	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.5	< 1.4	< 1.3	< 1.4
Allyl chloride	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Benzene	mg/kg	810	79	14	0.83	< 0.27	0.48	1.1	< 0.27	< 0.26	< 0.25	0.37	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Bromobenzene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Bromochloromethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Bromodichloromethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Bromoform	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Bromomethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Butylbenzene	mg/kg		5.3	1.3	0.62	< 0.27	< 0.27	2.0	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	2.1
Butylbenzene, sec	mg/kg		0.56	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	0.63
Butylbenzene, tert	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Carbon tetrachloride	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Chlorobenzene	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Chlorodibromomethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.26	< 0.25	< 0.27	< 0.27	< 0.29	< 0.27	< 0.27	< 0.29
Chloroethane	mg/kg		< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.26	< 0.25	< 0.27	<											

Table 6
Backfill Analytical Soil Data
Fargo MGP Site
Fargo, ND

Location Date Depth Sample Type	Grab-1 6/01/2018 1 ft N	Grab-1 6/11/2018 1 ft N	Grab-2		Grab-2 6/11/2018 1 ft N	Grab-2 6/01/2018 1 ft N	Grab-3 6/11/2018 1 ft N	Grab-3 6/11/2018 1 ft N	Grab-4 6/11/2018 1 ft N	Grab-5 6/11/2018 1 ft N	Grab-6 6/11/2018 1 ft N	Grab-7 6/11/2018 1 ft N	Grab-8 6/11/2018 1 ft N	Grab-9 6/11/2018 1 ft N	Grab-10 6/11/2018 1 ft N	Grab-11 6/11/2018 1 ft N	Grab-12 6/11/2018 1 ft N	Grab-13 6/11/2018 1 ft N	Grab-14 6/11/2018 1 ft N	Grab-15 6/11/2018 1 ft N
			Grab-2																	
			1 ft	FD																
			N	FD																
Parameter	Units																			
Hexachlorobenzene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Hexachlorobutadiene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Hexachlorocyclopentadiene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Hexachloroethane	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Isophorone	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Naphthalene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Nitrobenzene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
n-Nitrosodimethylamine	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
n-Nitrosodi-n-propylamine	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
n-Nitrosodiphenylamine	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Pentachlorophenol	mg/kg	< 1.3	< 0.73	< 1.3	< 1.2	< 0.70	< 1.2	< 0.71	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 0.71	< 0.72	< 0.70	< 0.89	< 0.92	< 0.92
Phenanthrene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Phenol	mg/kg	< 1.3	< 0.73	< 1.3	< 1.2	< 0.70	< 1.2	< 0.71	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 0.71	< 0.72	< 0.70	< 0.89	< 0.92	< 0.92
Pyrene	mg/kg	< 0.66	< 0.36	< 0.62	< 0.61	< 0.34	< 0.61	< 0.35	< 0.61	< 0.64	< 0.58	< 0.60	< 0.61	< 0.59	< 0.35	< 0.35	< 0.34	< 0.44	< 0.45	< 0.45
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1,1-Trichloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1,2,2-Tetrachloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1,2-Trichloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1-Dichloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1-Dichloroethylene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,1-Dichloropropene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2,3-Trichlorobenzene	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
1,2,3-Trichloropropane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2,4-Trichlorobenzene	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
1,2,4-Trimethylbenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
1,2-Dibromoethane (EDB)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dichlorobenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dichloroethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dichloroethylene, cis	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dichloroethylene, trans	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,2-Dichloropropene, trans	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,3,5-Trimethylbenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,3-Dichloropropane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,3-Dichloropropene, cis	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,3-Dichloropropene, trans	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
1,4-Dichlorobenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
2,2-Dichloropropane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Acetone	mg/kg	< 1.3	< 0.54	< 1.3	< 1.3	< 0.47	< 1.2	< 0.48	< 0.66	< 0.67	< 0.66	< 0.58	< 0.62	< 0.60	< 0.53	< 0.54	< 0.52	< 1.3	< 1.4	< 1.4
Allyl chloride	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Benzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Bromobenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Bromochloromethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Bromodichloromethane	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.												

Table 6
Backfill Analytical Soil Data
Fargo MGP Site
Fargo, ND

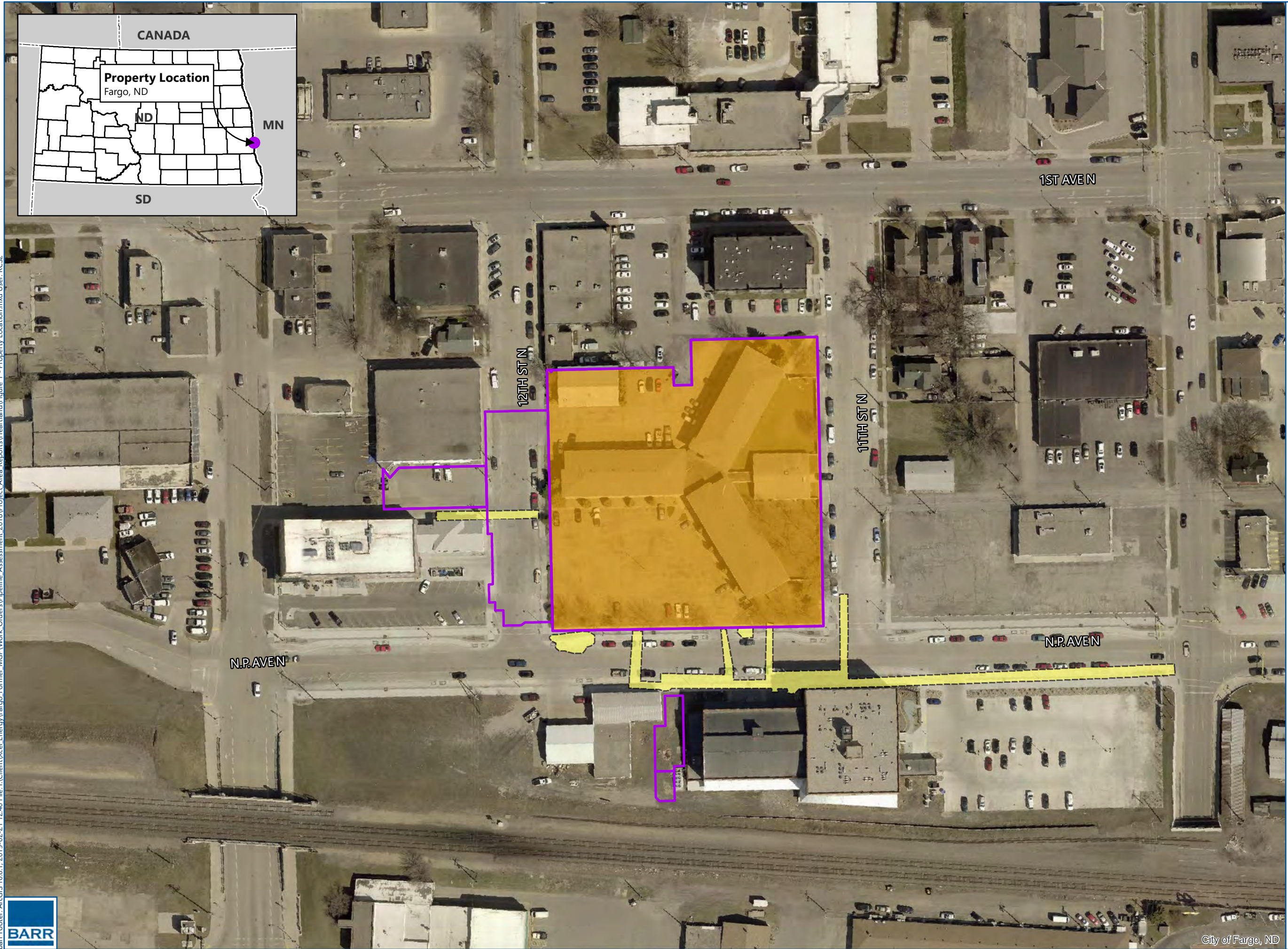
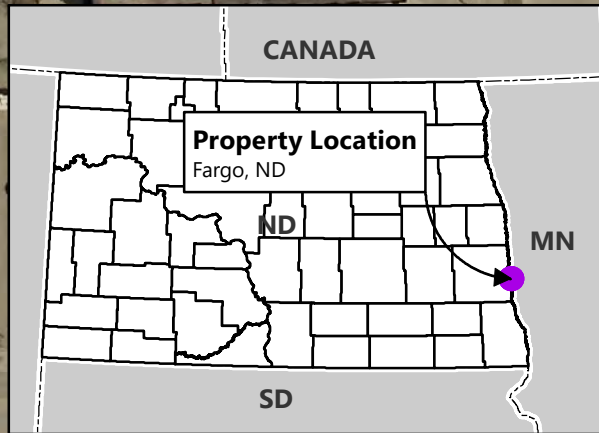
	Location	Grab-1	Grab-1	Grab-2		Grab-2	Grab-3	Grab-3	Grab-4	Grab-5	Grab-6	Grab-7	Grab-8	Grab-9	Grab-10	Grab-11	Grab-12	Grab-13	Grab-14	Grab-15
	Date	6/01/2018	6/11/2018	6/01/2018		6/11/2018	6/01/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018
	Depth	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft	1 ft
	Sample Type	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units																			
Cumene (isopropyl benzene)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Cymene p- (toluene isopropyl p-)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Dibromomethane (methylene bromide)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Dichlorodifluoromethane (Freon-12)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Dichlorofluoromethane (Freon-21)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Ethyl benzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Ethyl ether	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Hexachlorobutadiene	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
Methyl ethyl ketone (2-butanone)	mg/kg	< 1.3	< 0.54	< 1.3	< 1.3	< 0.47	< 1.2	< 0.48	< 0.66	< 0.67	< 0.66	< 0.58	< 0.62	< 0.60	< 0.53	< 0.54	< 0.52	< 1.3	< 1.4	< 1.4
Methyl isobutyl ketone (MIBK)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Methyl tertiary butyl ether (MTBE)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Methylene chloride	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
Naphthalene	mg/kg	< 0.63	< 0.27	< 0.63	< 0.63	< 0.24	< 0.58	< 0.24	< 0.33	< 0.33	< 0.33	< 0.29	< 0.31	< 0.30	< 0.27	< 0.27	< 0.26	< 0.67	< 0.68	< 0.68
Propylbenzene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Styrene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Tetrachloroethylene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Tetrahydrofuran	mg/kg	< 1.3	< 0.54	< 1.3	< 1.3	< 0.47	< 1.2	< 0.48	< 0.66	< 0.67	< 0.66	< 0.58	< 0.62	< 0.60	< 0.53	< 0.54	< 0.52	< 1.3	< 1.4	< 1.4
Toluene	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Trichloroethylene (TCE)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Trichlorofluoromethane (Freon-11)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Trichlorotrifluoroethane (Freon 113)	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Vinyl chloride	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Xylene, m & p	mg/kg	< 0.50	< 0.22	< 0.51	< 0.51	< 0.19	< 0.47	< 0.19	< 0.26	< 0.27	< 0.26	< 0.23	< 0.25	< 0.24	< 0.21	< 0.22	< 0.21	< 0.53	< 0.55	< 0.55
Xylene, o	mg/kg	< 0.25	< 0.11	< 0.25	< 0.25	< 0.095	< 0.23	< 0.097	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.10	< 0.27	< 0.27	< 0.27
Total Petroleum Hydrocarbons																				
Diesel Range Organics, silica gel cleanup	mg/kg	< 8.8	< 8.7	< 8.4	< 8.1	< 8.3	< 8.0	< 8.4	< 11	< 11	< 9.8	< 9.4	< 9.4	< 9.6	< 8.5	< 8.6	< 7.7	< 9.5	< 11	< 11
Gasoline Range Organics, C6-C10	mg/kg	< 6.3	< 5.4	< 6.3	< 6.3	< 4.7	< 5.8	< 4.8	< 6.6	< 6.7	< 6.6	< 5.8	< 6.2	< 6.0	< 5.3	< 5.4	< 5.2	< 6.7	< 6.8	< 6.8

Table 6
Backfill Analytical Soil Data
Fargo MGP Site
Fargo, ND

Barr Standard Footnotes and Qualifiers

N	Sample Type: Normal
FD	Sample Type: Field Duplicate

Figures



- Heartland Property
- Fargo MGP Remedy Boundaries 2018
- MGP Excavation 2015 and 2016

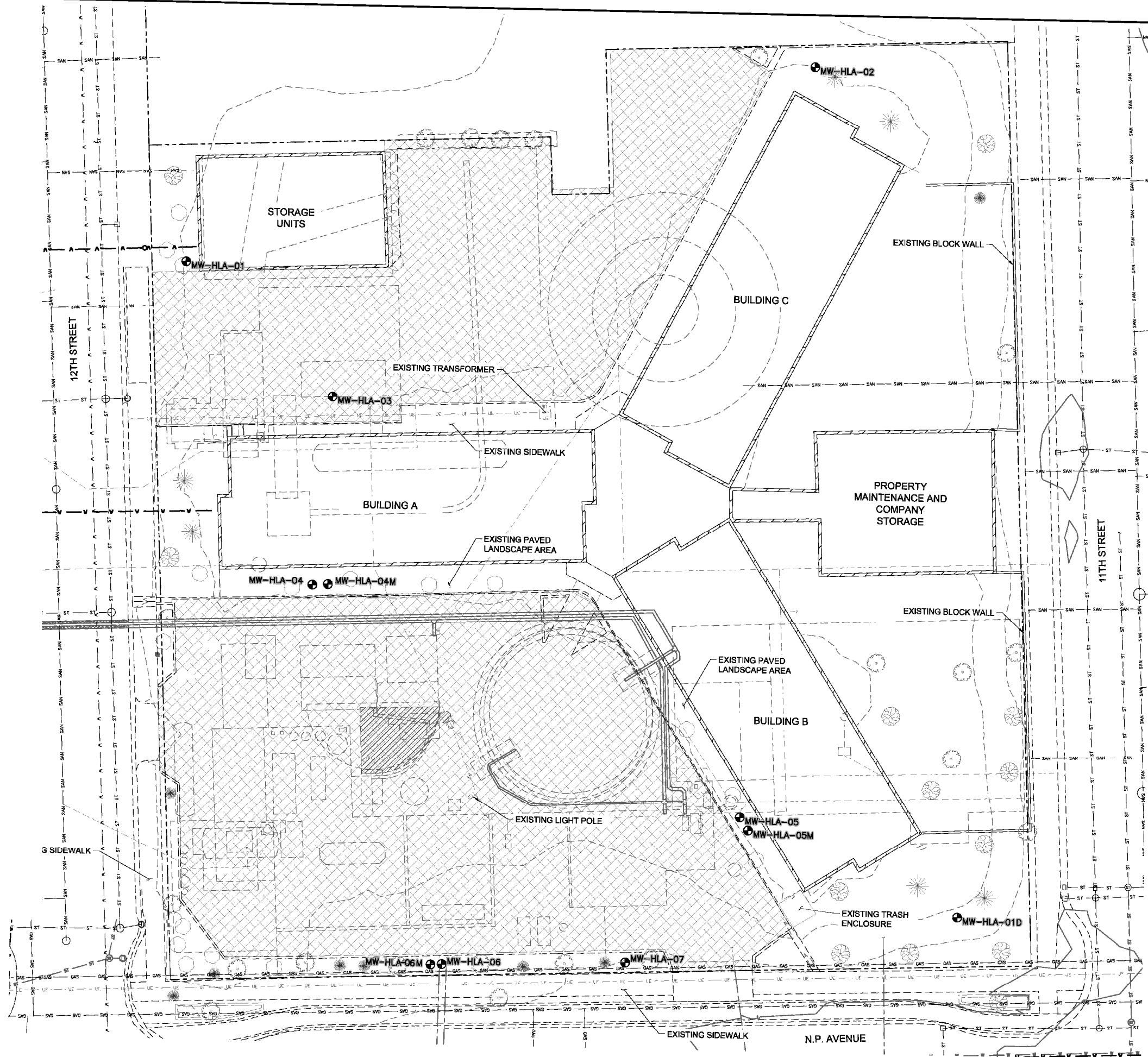
Note: Boundaries have been surveyed.



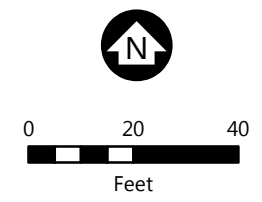
0 50 100
Feet

PROPERTY LOCATION
HEARTLAND
Fargo MGP Site
Fargo, ND

FIGURE 1

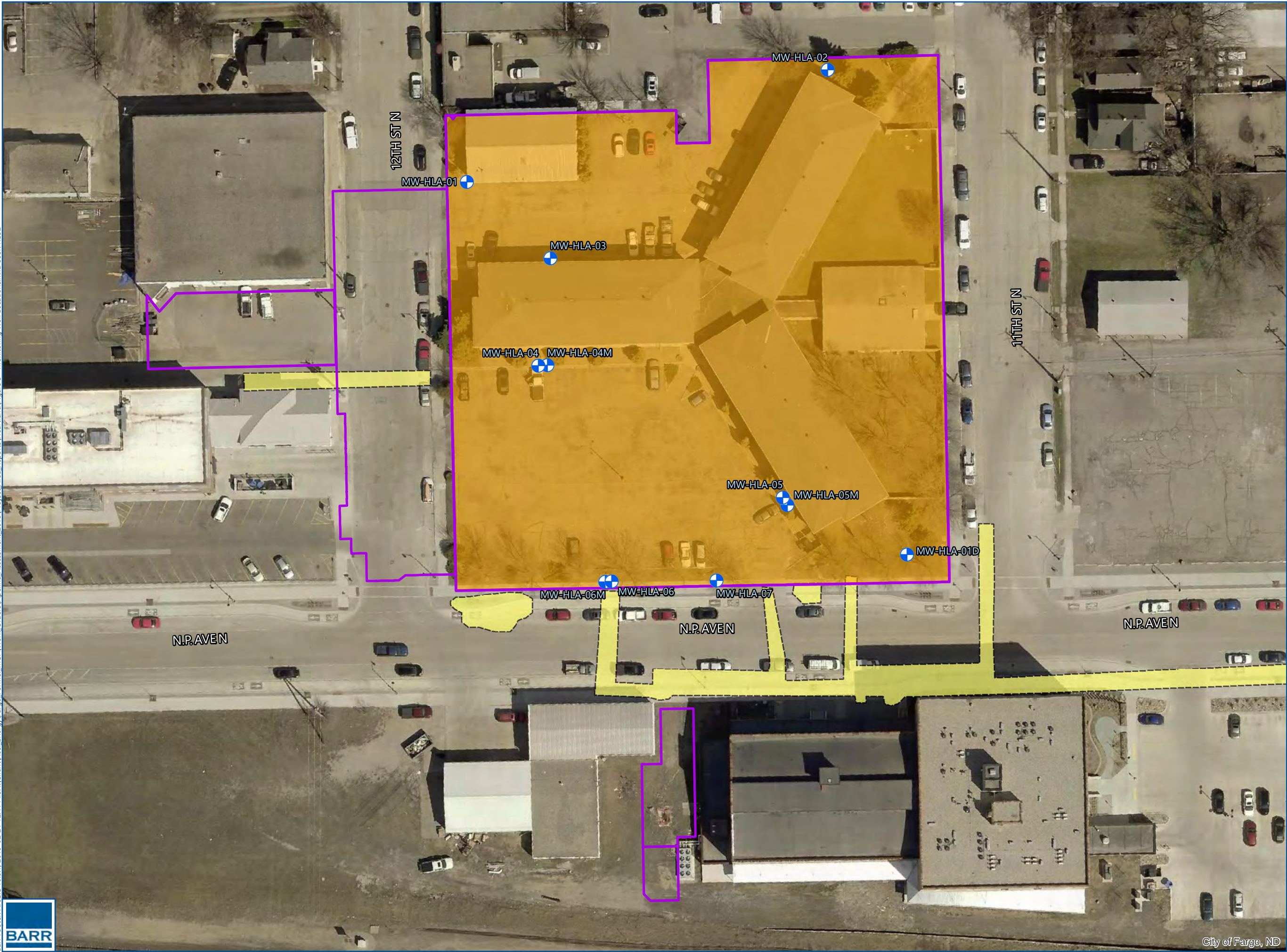


- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING BURIED GAS LINE
- EXISTING HISTORICAL PIPING
- EXISTING ROAD EDGE
- EXISTING CONCRETE EDGE (CURB / SIDEWALK)
- EXISTING CABLE TV
- EXISTING OVERHEAD ELECTRIC
- EXISTING 12" MGP PIPES
- EXISTING 12" MGP PIPES (GROUTED)
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATERLINE (ABANDONED)
- EXISTING UNKNOWN PIPE
- EXISTING BUILDING OUTLINE
- PROPERTY BOUNDARY
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING MONITORING WELL
- HISTORICAL STRUCTURES
- EXISTING MAJOR CONTOUR
- EXISTING TREE
- EXISTING CLUMP
- EXISTING SHRUB
- EXISTING BITUMINOUS PAVEMENT
- EXISTING VALVES
- EXISTING FIRE HYDRANT



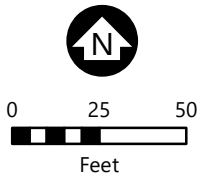
PREEXISTING CONDITIONS
Heartland
Fargo MGP Site
Fargo, ND

FIGURE 2



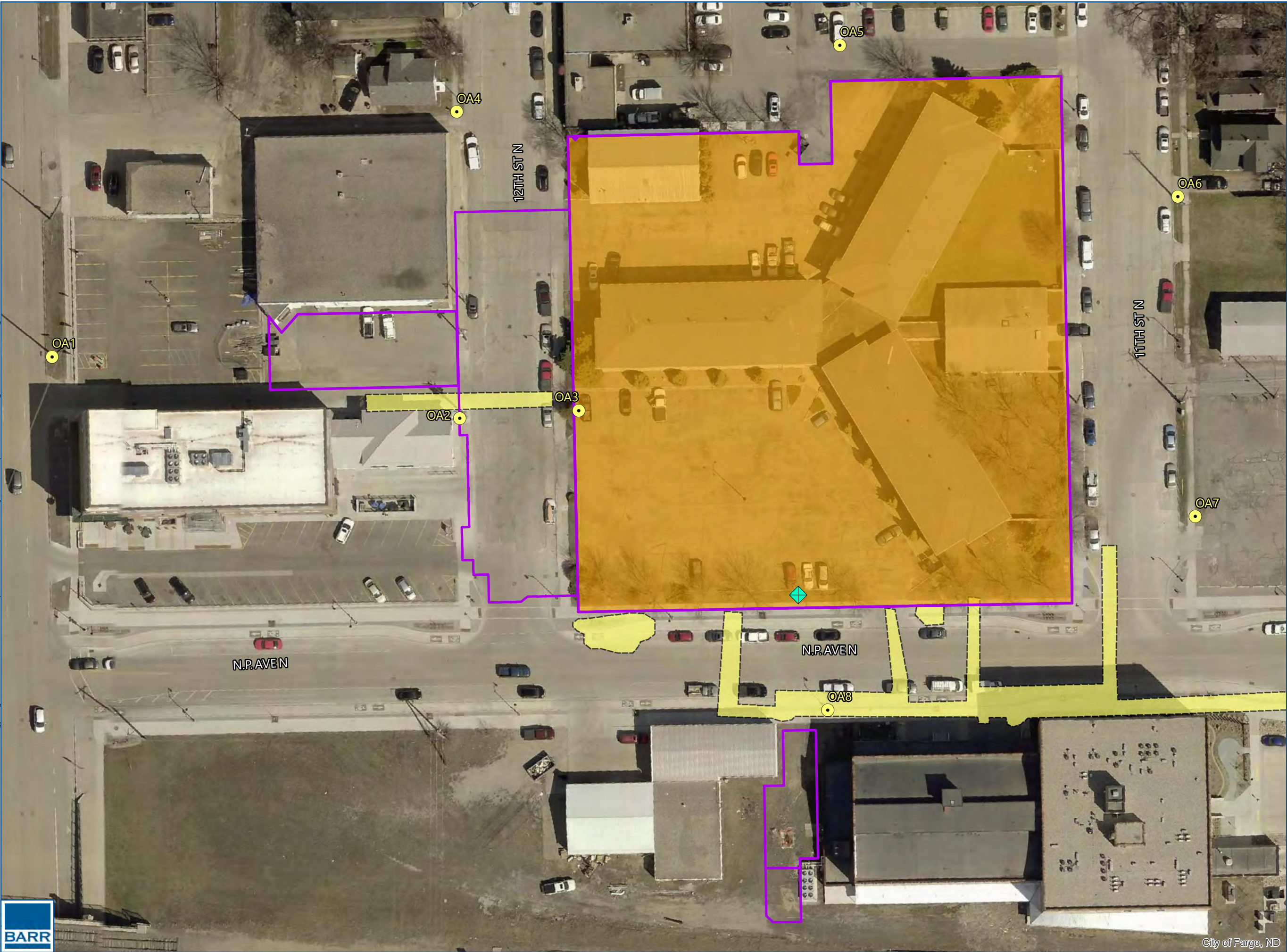
- Monitoring Wells
- Heartland Property
- Fargo MGP Remedy Boundaries 2018
- MGP Excavation 2015 and 2016

Note: Boundaries have been surveyed.



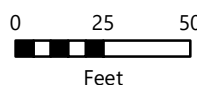
MONITORING WELL
LOCATIONS
Heartland
Fargo MGP Site
Fargo, ND

FIGURE 3



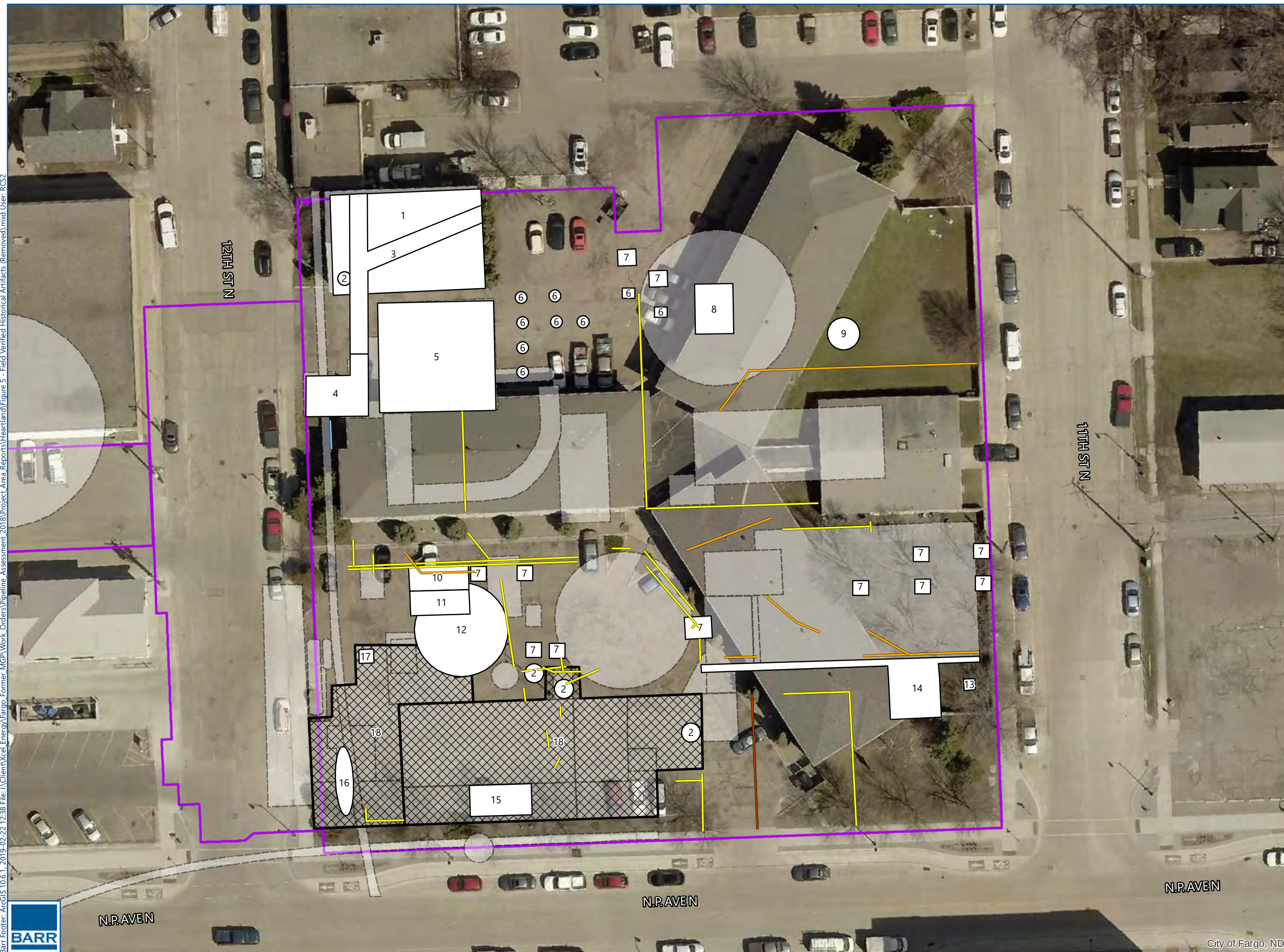
- Weather Station
- Perimeter Air Monitoring Location
- Heartland Property
- Fargo MGP Remedy Boundaries 2018
- MGP Excavation 2015 and 2016

Note: Boundaries have been surveyed.



AIR MONITORING LOCATIONS
Heartland
Fargo MGP Site
Fargo, ND
FIGURE 4



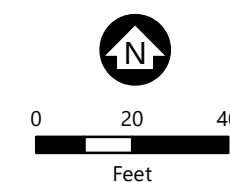


2018 RA Findings

-  Key Findings
-  Foundation with Concrete and Brick Debris
-  Iron Pipe
-  Clay Pipe
-  Copper Pipe
-  Steel Pipe
-  Features from Historical Drawings
-  Fargo MGP Remedy Boundaries 2018

- 1 – Coal Storage Building
- 2 – Manhole-like Structure
- 3 – Coal Conveyor Tunnel
- 4 – Coal Conveyor Tunnel
- 5 – Retort Foundation Slab
- 6 – Concrete Pillar
- 7 – Concrete Pad
- 8 – Brick Foundation Slab
- 9 – Brick Homestead Structure
- 10 – Settling Tank
- 11 – Weak Liquor Well
- 12 – Tar Well
- 13 – Underground Storage Tank
- 14 – Elevator/ Stair Shaft and
Foundation Wall (Removed up
to 12ft bgs)
- 15 – Tar Extractor/ Exhauster
- 16 – Railroad Ties
- 17 – Barrel Filled with Tar-Like Material
- 18 – Foundation filled with Concrete
and Brick Debris

Note: Scale and location of findings are approximate and based on field observations. This figure may not include all artifacts encountered and removed during the 2018 remedial action

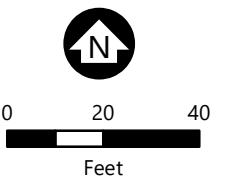


FIELD VERIFIED HISTORICAL
ARTIFACTS (REMOVED)
Heartland
Fargo MGP Site
Fargo, MN
FIGURE 5



- Lab Sample
- ▨ Former Underground Storage Tank (UST) Area
- ⊕ Heartland Property
- - - Excavation Extent

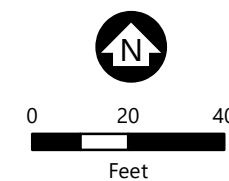
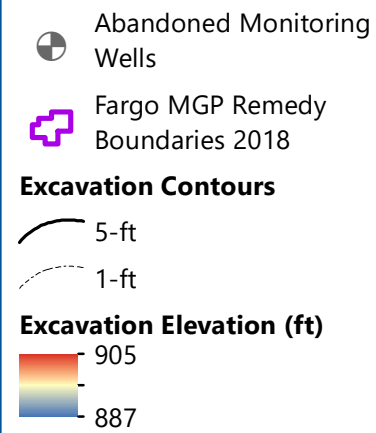
Note: Boundaries have been surveyed.



SOURCE REMOVAL
EXTENTS
Heartland
Fargo MGP Site
Fargo, ND

FIGURE 6



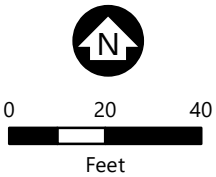


EXCAVATION
CONTOURS
Heartland
Fargo MGP Site
Fargo, MN

FIGURE 7



- Bollards
- ==== Split Rail Fence
- Finished Ground Contours**
- 1-ft
- ✚ Fargo MGP Remedy Boundaries 2018



POST
REMEDATION
Heartland
Fargo MGP Site
Fargo, MN

FIGURE 8



Attachments

Omitted